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PRELIMINARY RESULTS

CJES State AB #1 SWD Facility Assessment Report

Hobbs, Lea County, New Mexico

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Table of Contents

List of Figures

List of Tables

Appendices

1.0 INTRODUCTION

This assessment report has been prepared by EnTech Consulting Corporation (EnTech) to document delineation of potential affected soil at the C&J Energy Services (CJES) State AB SWD #1 salt water disposal (SWD) facility (hereinafter referred to as the "Site"), located approximately 6 miles west of Hobbs, Lea County, New Mexico (**Figure 1**). The CJES Site is located in Section 3, Township 19S, Range 37E. The actual location of the release is 660 from the north line of the Section and 1980-feet from the east line of the Section at latitude 32.6947220 and longitude -103.2402780.

The Site consists of a disposal well, a fresh water well, and a storage yard, equipped with numerous tanks and truck unloading area. On September 22, 2017, an offload valve attached to a hose was left partially open during a night offload. The hose was stored vertically so that the release was not seen until it filled the hose and spilled. The fluids were discovered the next morning on September 23, 2017, when the valve was properly closed. The released fluids were immediately removed, through the use of a vacuum truck, from the yard. The release area was scraped, with the effected soil stockpiled at the Site (hereinafter referred to as "1RP-4836 Release"). The Site reportedly experienced thunderstorms on the 23rd-25th of September 2017. The storm water outfall for the Site is located on the east side of the facility, adjacent to the northeast exterior corner of the bermed tank battery system. The heavy rains produced storm water which migrated off the facility pad via the storm water outfall. The spill area and the area outside of storm water outfall were treated as an area of concern for the purpose of this assessment (**Figure 2**).

On October 31, 2017, representatives of New Mexico CJES and EnTech met with the New Mexico Oil Conservation Division (NMOCD) and State Lands (NMSL). Based on these discussions, additional areas of concern were identified for delineation of possible impacts from breaks in the southern earthen berm that surrounds the Site (hereinafter referred to as the "1RP-3961 Release"). Fluids from the 1RP-3961 Release which resulted from a lightning strike and subsequent fire, were originally contained within the lined secondary containment area around the tanks. A break in the tank battery secondary containment was created after released fluids were removed and disposed of to allow removal of the damaged tanks. Breaks in the outer facility earthen berm were also created to remove accumulated runoff from heavy precipitation to provide access and a stable surface during removal of the damaged tanks. A stockpile along the southern property boundary (southwest corner), containing stained soils related to a 2016 tank fire, was also identified as an area of concern during this meeting. Finally, the liner in the tank battery area was noted as an area of concern due to potential impacts to the integrity of the liner from fires and subsequent repairs.

In New Mexico, the NMOCD oversees and regulates oil, gas and geothermal activities, including enforcement and compliance with environmental regulations. Guidance for cleanup of crude oil releases is provided in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993) document. Primary contaminants, or chemicals of concern (COCs), associated with releases from this facility, and requested in the directive attached to the NMOCD Release Notification and Corrective Action (dated October 4, 2017) include benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chlorides. Guidelines for these COCs in soil were evaluated based on a Site ranking system established during a previous tank closure at the Site, which is documented in the report dated October 7, 2015. The ranking system estimates the likelihood of exposures to the COCs and is based on the following three (3) parameters to protect groundwater and surface water resources:

- Depth to groundwater (Site ranking score = 20);
- Wellhead protection area (Site ranking score = 0); and,
- Distance to surface water body (Site ranking score =0).

2.0 NMOCD SITE RANKING

Based on the proximity of the Site to water wells, surface water bodies, and depth to groundwater, an NMOCD ranking score of 20 points was established in October 2015, with the soil remediation goals defined in the table below:

	Total Ranking Site Score		
Parameter	19 or greater	10-19	0-9
Benzene	10 ppm	10 ppm	10 ppm
BTEX	50 ppm	50 ppm	50 ppm
TPH (C6-C36)	100 ppm	1000 ppm	5000 ppm

Per the NMOCD Pit Rule (NMAC 19.15.17), closure criteria for chloride affected soils has been established as follows:

Closure Criteria for Soils			
Depth to Groundwater with less than 10,000 mg/L TDS	Constituent	Method	Limit
<50-feet	Chloride	EPA 300.0	600 mg/Kg

*numerical limit or background concentration, whichever is greater

Based on typical NMOCD remediation standards, the analytical goals for confirmation samples collected from the affected area at the Site are: TPH target concentration of 100 mg/Kg, benzene target concentration of 10 mg/Kg, total BTEX target concentration of 50 mg/Kg, and chloride target concentration of 600 mg/Kg. It should be noted that the target concentration for TPH, as outlined in the NMOCD guidance, is the TPH contaminant

concentration above background levels (i.e., background concentration plus 100 mg/Kg). Additionally, per NMOCD guidance, a field soil vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

The scope of this assessment report is to document the environmental sample collection objectives and the technical site investigation strategies that were utilized during the characterization of impacts associated with the release of oil and gas fluids at the Site and subsequent remediation.

3.0 CHRONOLOGY

09/22/2017 Offload valve attached to hose was left partially open and Site impacted.

10/31/2017 Representatives of CJES and EnTech met with the NMOCD and New Mexico State Lands (NMSL) to review concerns identified in the submitted Assessment Work Plan. Additional areas of investigation were identified.

12/8/2017 An Assessment Work Plan was re-submitted to NMOCD incorporating additional areas to be investigated that were discussed in the meeting of 10/31/2017.

12/19/2017 A visual inspection of the liner within the containment berm of the tank battery system was conducted. The liner was inspected at six (6) separate locations. Two (2) soil samples were collected from a depth of 3- to 6-inches into the surface of the berm, in an area lacking high density polyethylene (HDPE) geomembrane/liner. Soil samples were submitted for laboratory analysis.

12/21/2017 NMOCD approved the Assessment Work Plan (dated 12/8/2017), with the condition that one (1) additional soil boring be added in the 1RP-4836 release area.

02/05/2018 Ten (10) background samples (BG-1 through BG-10) were collected from the north and south side of the entrance road to the Site, in areas suspected of being free of anthropogenic interference. Four (4) soil borings (B-1 through B-4) were installed to a depth of 20-feet below ground surface (bgs). Soil samples collected from background locations and soil borings submitted for laboratory analysis.

02/07/2018 Twenty-four (24) soil borings, using a tractor-mounted Geoprobe, were installed in and around the Site, to a maximum depth of 30-inches bgs or refusal, whichever occurred first. Soil samples from cardinal direction locations (CD-1, C-2, and CD-3), delineation locations (D-1 through D-16), and backup delineation locations (BUC-1 through BUC-5), collected and submitted for laboratory analysis.

02/08/2018 Six (6) stockpile soil samples (SP-1(A) through SP-2(C)) collected. Twenty-three (23) soil borings, using a tractor-mounted Geoprobe, were installed around the Site, to a maximum depth of 30-inches bgs or refusal, whichever occurred first. Soil samples from cardinal direction locations (CD-4 through CD-7), delineation locations (D-17 through D-21), and backup delineation locations (BUC-6 through BUC-19), collected and submitted for laboratory analysis.

4.0 SCOPE OF WORK

During the assessment process, EnTech personnel completed the following: 1. Installed four (4) soil borings to a depth of 20-feet bgs to collect samples at 5-, 10, and 20-feet bgs; 2. Collected ten (10) background soil samples at a depth of 3-inches to 6-inches bgs using a hand trowel; 3. Collected soil samples from two (2) locations in an earthen berm surrounding the on-Site tank battery system; 4. Collected soil samples from seven (7) cardinal points in and around the impacted area to a maximum depth of 30-inches bgs using a tractor-mounted Geoprobe; 5. Collected soil samples from twenty-one (21) locations in and around the impacted area to a maximum depth of 30-inches bgs using a tractor mounted Geoprobe; 6. Collected soil samples from nineteen (19) locations in and around the impacted area to a maximum depth of 32-inches bgs using a tractor-mounted Geoprobe; 7. Inspected the geomembrane liner located on the interior of the bermed tank battery at six (6) different locations; and, 8. Collected six (6) discreet soil samples from two (2) separate stockpiles.

Due to the number of areas sampled at the Site and concerns related to each area, each task outlined in the scope of work is addressed separately below.

4.1 Soil Boring Installation

Four (4) soil borings (B-1 through B-4), were installed at the Site on February 5, 2018, using an air rotary, truck-mounted drilling rig, operated by Straub Corporation of Stanton, Texas. All drilling rig and sampling equipment was decontaminated prior to the start of field activities. Soil samples were examined in the field immediately following retrieval of the cuttings. The soil cuttings were logged by geologist from EnTech and described according to the Unified Soil Classification System criteria. All four (4) soil borings were installed to a depth of 20-feet bgs. Soil samples from cuttings were collected from each soil boring at a depth of 5-, 10-, and 20-feet bgs. Once collected, each soil sample was split into two and one-half the sample placed in a half-gallon sealable polyethylene bag and allowed to equilibrate for approximately 15-minutes, prior to conducting field screening with an Organic Vapor Meter (OVM), calibrated with 100-ppm isobutylene. The second half of the sample was transferred to clean, laboratory supplied glass containers, labeled, and place in a cooler on ice, for transport to the analytical laboratory.

Soil boring B-1 was installed on the interior of the Site, immediately north of the northeast corner of the bermed tank battery. Soil boring B-1 was installed in the former flow path of the 1RP-4836 Release in an attempt to determine the vertical extent of potential impact from the release.

Soil boring B-2 was installed on the exterior perimeter of the Site, immediately east of the northeast corner of the bermed tank battery to evaluate the run-off from the storm water outfall. Soil boring B-3 was installed on the southern exterior perimeter of the Site, immediately south of the southeastern corner of the bermed tank battery. Soil boring B-4 was also installed on the southern exterior perimeter, immediately south of the southwestern corner of the bermed tank battery. Soil borings B-3, and B-4 were installed to address NMOCD concerns related to comments made during the site inspection with NMOCD and NMSL on October 31, 2017. Specifically, the soil borings were installed to address potential impact from the 1RP-3961 release, in areas of possible pooling that may have resulted from the cuts in the facility perimeter.

A total of twelve (12) soil samples were collected from the four (4) soil borings. All twelve (12) soil samples were screened for BTEX using an OVM. Soil screening was completed by placing a soil sample aliquot in zip-lock bags, allowing the sample to equilibrate for 15-minutes, and then collecting a headspace reading using the OVM. OVM readings of the soil samples collected from the borings ranged from 1.9 parts per million vapor (ppmv) to 13.0 ppmv. Readings below 100 ppmv were used to determine if they were below cleanup levels for BTEX.

All soil samples were analyzed by the laboratory for TPH by EPA Method 8015 extended range (GRO+DRO+MRO; C6 thru C36), and for chloride by EPA Method 300.0.

Groundwater was not encountered in any of the soil borings. After advancing each soil boring to total depth (20-feet bgs), and collecting soil samples, the soil borings were plugged with bentonite and hydrated using fresh water.

Detailed drillers logs and geologic logs for each soil boring are included in **Appendix A**.

4.2 Background Soil Samples

Ten (10) locations [BG-1 to BG-10], were selected for collection of background soil samples. All background samples were collected from areas suspected of being representative of native conditions, without industrial or commercial activity. The background samples were all collected from the north and south side of the facility access road on the western exterior of the Site. Three (3) samples were collected on the north side of the access road and seven (7) samples were collected on the south side of the road. All background samples were collected on February 5, 2015, using a hand trowel. All background samples were collected from a depth of 3- to 6-inches bgs. The background samples were field screened by the same method described from the soil

samples collected from the soil borings, with an OVM. OVM readings of the background samples ranged from 2.2 ppmv to 9.1 ppmv.

4.3 Berm Soil Samples

Two (2) locations were selected for sampling on December 19, 2017. The two (2) soil samples were collected from a depth of 3- to 6-inches into the surface of the berm, in an area lacking geomembrane liner. The liner had been removed to facilitate removal of damaged equipment from the 1RP-3961 Release.

4.4 Cardinal Confirmation Soil Samples

Seventeen (17) soil samples were collected from seven (7) locations [CD-1 to CD-7], from areas in and around the impacted area, to confirm the lateral delineation of the 1RP-4836 Release and the 1RP-3961 Release. The soil samples were collected from various depths using a tractor-mounted Geoprobe, between February 7, 2018 and February 8, 2018. Typically, samples were collected from 6-inches bgs, from the top of a dense limestone layer (hereinafter referred to as “hard pan”), and immediately under the hard pan if possible. One (1) of the locations (CD-1) had no recovery at 6-inches bgs. Four (4) of the locations had probe refusal at the hard pan, resulting in no collection of a sample. The cardinal samples were all collected as discrete samples and field screened with an OVM by the same method described for the soil samples collected from the soil borings. OVM readings of the cardinal samples ranged from 0.1 ppmv to 5.6 ppmv.

4.5 Delineation Soil Samples

Forty-nine (49) soil samples were collected from twenty-one (21) locations [D-1 to D-21], in and around the impacted area to establish delineation of the 1RP-4836 Release and the 1RP-3961 Release. The soil samples were collected from various depth using a tractor-mounted Geoprobe, between February 7, 2018 and February 8, 2018. Typically, samples were collected from 6-inches bgs, from the top of the hard pan, and immediately under the hard pan if possible. Thirteen (13) of the locations had probe refusal at or immediately below the hard pan, resulting in no collection of a sample. The delineation samples were all collected as discrete samples and field screened with an OVM by the same method described for the soil samples collected from the soil borings. OVM readings of the cardinal samples ranged from non-detectable (0 ppmv) to 16 ppmv.

4.6 Backup Delineation Soil Samples

Thirty-seven (37) soil samples were collected from nineteen (19) locations [BUC-1 to BUC-19], in areas beyond the delineation soil sample locations mentioned previously and held under a separate chain-of-custody in the event that laboratory analysis of further delineation sampling was required. Typically, samples were collected from 6-inches bgs, from the top of the hard pan, and immediately under the hard pan if possible, utilizing a tractor-mounted Geoprobe. The soil samples were collected between February 7, 2018 and February 8, 2018. Fifteen (15) of the locations had probe refusal at or immediately below the hard pan, resulting in no collection of a sample. The delineation samples were

all collected as discrete samples and field screened with an OVM by the same method described for the soil samples collected from the soil borings. OVM readings of the cardinal samples ranged from 0.2 ppmv to 10 ppmv.

4.7 Liner Inspection

A visual inspection of the liner within the containment berm of the tank battery system was conducted on December 19, 2017. The liner was inspected at six (6) separate locations. A hand trowel was utilized to scrape the pea gravel overlying the liner, so that a visual inspection could be conducted. Four (4) of the liner inspection points occurred on the north, west and south sides of the former tanks that were removed as a result of the fires (1RP-3961 Release). Two (2) additional inspection points were made to the north and east of the existing tanks in the battery. The liner appeared to be in good condition and did not appear to require repair in the six (6) locations examined. Photographic documentation of the liner is included in **Appendix B**

4.8 Stockpile Samples

Six (6) discrete soil samples were collected from two (2) stockpiles located at the Site. One (1) stockpile exists on the southwest corner of the Site and occurred as a result of the 1PR-3961 Release [SP-1(A) to SP-1(C)]. This stockpile consists of approximately 28 cubic yards of material that was scraped from the pad. A second stockpile exists on the northeast corner of the bermed battery area, in close proximity to the primary storm water outfall [SP-2(A) to SP-2(C)]. The material in this stockpile consists of approximately 20 cubic yards and was originally scraped from the pad as a result of the 1PR-4836 Release. Three (3) grab samples were collected from each stockpile: two (2) samples were collected within the stockpile and one (1) sample was collected from the base of the stockpiled material. All samples were collected utilizing a hand trowel. The stockpile samples were field screened with an OVM by the same method described for the soil samples collected from the soil borings. OVM readings of the stockpile samples ranged from non-detectable (0 ppmv) to 0.6 ppmv. All stockpile samples were analyzed for BTEX by EPA Method 8260, TPH by EPA Method 8015 extended range (GRO+DRO+MRO: C6-C35), and for chloride by EPA Method 300.0 for waste characterization.

5.0 GEOLOGY

(from Geologic Atlas of Texas, Bureau of Economic Geology, Hobbs Sheet, 1976; Nicholson et al, Geology and Groundwater Conditions in Southern Lea County, New Mexico, State Bureau of Mines and Mineral Sources, 1961)

The regional geology for the Site, as described in the Geologic Atlas of Texas, is made up of sediments of the Ogallala Formation. It is described as fluviatile sand, silt, clay, and gravel capped by caliche. The sand is fine-medium grained quartz, silty in-part and calcareous. Clay balls are common, and the formation is clayey in the upper part. It is indistinctly bedded to massive, cross-bedded, unconsolidated to weakly cohesive and consists of various shades of gray and red. Silt and clay with caliche nodules are present

which is reddish brown, dusky red, and pink in color. Some beds of well-consolidated, silica-cemented conglomeratic sandstone, 1- to 3-feet in thickness occur with the Ogallala. Maximum thickness up to 100 feet.

The Site is located on the southern boundary of a region referred to as the "High Plains" and described in detail in *Groundwater Conditions in Southern Lea County, New Mexico* (1961). The High Plains surface is uniformly flat and slopes about 17 feet per mile between 15 degrees and 20 degrees south of east. The oldest sediments that can be seen at the surface are Triassic in age. Triassic sediments of the area consist chiefly of a sequence of red beds of the Dockum group, which are separated from sediments of the Permian or Triassic age by an erosional unconformity. The uppermost formation of the Dockum group is the Chinle, which ranges in thickness from zero to 1,270-feet. It is thickest in the eastern part of the area and entirely absent in the western part, where it has been removed by post-Mesozoic erosion. The Chinle is dominantly red and green claystone but also contains minor fine-grained sandstone and siltstone. Sediments of Jurassic age have not been found in southern Lea County. Cretaceous sediments have been identified in a quarry located southeast of the Site (east of Eunice, New Mexico), but for the most part have been almost entirely removed in Lea County, by erosion. Tertiary sediments are represented in this area by the Ogallala formation, of Pliocene age. The Ogallala underlies the High Plains and is composed of a heterogeneous complex of terrestrial sediments, which mantles an irregular erosion surface cut into Triassic rocks. The Ogallala on the High Plains is capped by a layer of dense caliche, which ranges in thickness from a few feet to as much as 60-feet. At the surface, the caliche is well indurated and is almost completely calcium carbonate. Sediments of Quaternary age are present in southern Lea County and cover the Ogallala. These Quaternary sediments form alluvial deposits, probably of both Pleistocene and Recent age, and dune sands of Recent age. The dune sands mantle the older alluvium and the Ogallala formation over most of the area.

Only sediments of Tertiary and Quaternary age yield potable water.

It should be noted that a thick outcrop of caliche is evident on the east and west sides of the Site and that field geology noted a structural "high" defined by probe refusal, underlying the facility.

6.0 LABORATORY ANALYSIS

Due to the number of areas identified for assessment (i.e., berm, soil borings, etc.), laboratory analysis for each assessment area is described individually below. A summary of the analytical results and the OVM readings are presented in **Table 1.** Laboratory supplied analytical reports are in **Appendix C** on the enclosed CD only.

6.1 Soil Boring Samples

Three (3) soil samples were collected from each soil boring at a depth of 5-, 10-, and 20-feet bgs. Laboratory analyses of the soil samples indicated TPH concentrations ranging from 4.83 mg/Kg to 429.1 mg/Kg. Only three (3) of the twelve (12) collected samples indicated TPH (C6-C35) concentrations above 100 mg/Kg: soil boring B-2@5' (342.5 mg/Kg); soil boring B-3@5' (152.6 mg/Kg); and, soil boring B-4@5' (429.1 mg/Kg).

Laboratory analysis for chlorides from these same samples indicated chloride concentrations ranging from 103 mg/Kg to 1,350 mg/Kg. Chloride concentrations exceeding the target cleanup level of 600 mg/Kg were analyzed in: soil boring B-2@10' (956 mg/Kg); soil boring B-2@20' (1,130 mg/Kg); soil boring B-4@5' (1,350 mg/Kg); soil boring B-4@10' (662 mg/Kg); and, soil boring B-4@20' (811 mg/Kg).

6.2 Background Soil Samples

Eleven (11) locations [BG-1 to BG-10, and DUP-1], considered being representative of native conditions without industrial or commercial activity, were selected for collection of background soil samples. Laboratory analyses of the background samples indicated TPH (C6-C35) concentrations ranging from 7.09 mg/Kg to 41.27 mg/Kg and chloride concentrations ranging from nondetectable to 30.8 mg/Kg.

Results from these eleven (11) background samples, along with soil samples collected from CD-5, CD-6, and CD-7, were utilized to calculate the upper tolerance level (UTL) concentration for TPH (C6-C35) and chlorides.

Laboratory analysis of the background soil samples collected on February 5, 2018 (BG-1 through BG-10), and cardinal samples considered representative of background conditions, indicated a 95% UTL of 51.90 mg/Kg, resulting in a target cleanup level of 151.9 mg/Kg. The UTL calculations for TPH are presented in **Appendix D**.

6.3 Berm Soil Samples

Two (2) soil samples were collected from a depth of 3- to 6-inches into the surface of the berm. Laboratory analyses of the berm soil samples indicated nondetectable total BTEX, TPH (C6-C35) concentrations ranging from 12.99 mg/Kg to 166.2 mg/Kg, and chloride concentrations ranging from 2,980 mg/Kg to 4,720 mg/Kg.

6.4 Cardinal Confirmation Soil Samples

Seven (7) cardinal locations [CD-1 to CD-7], representing four (4) compass points around the impacted area were sampled. Seventeen (17) soil samples were collected from the seven (7) locations, with sixteen (16) soil samples analyzed. Laboratory analyses of the soil samples indicated TPH (C6-C35) concentrations ranging from 3.92 mg/Kg to 144.4 mg/Kg and chloride concentrations ranging from 25.7 mg/Kg to 2,760 mg/Kg. None of the analyzed samples indicated TPH (C6-C35) concentrations in excess of the target cleanup levels for TPH (C6-C35) incorporating the UTL (151.90 mg/Kg). Chloride concentrations exceeding the target concentration of 600 mg/Kg were analyzed in soil

samples collected from CD-1@18" (2,760 mg/Kg); and, CD-2@6" (1,360 mg/Kg), CD-2@12" (1,100 mg/Kg), and CD-2@30" (1,180 mg/Kg).

6.5 Delineation Soil Samples

Forty-nine (49) soil samples were collected from twenty-one (21) locations [D-1 to D-21], in and around the impacted area to establish delineation of the 1RP-4836 Release and the 1RP-3961 Release. Laboratory analyses of the delineation soil samples indicated TPH (C6-C35) concentrations ranging from nondetectable to 467 mg/Kg. TPH (C6-C35) concentrations in excess of the target cleanup levels for TPH (C6-C35) incorporating the UTL (151.90 mg/Kg) were analyzed in soil samples collected from: D-4@6" (185.3 mg/Kg); D-5@12" (467 mg/Kg); D-7@6" (167.8 mg/Kg); D-17@16" (197.7) mg/Kg; and, D-19@6" (383.9 mg/Kg).

Laboratory analysis of these same samples for chlorides indicated concentrations ranging from 66.9 mg/Kg to 5,120 mg/Kg. Chloride concentrations exceeding the target cleanup level of 600 mg/Kg, were analyzed in sample locations D-1, D-2, D-3, D-4, D-5, D-6, D-7, D-8, D-13, D-14, D-15, D-16, and D-18.

6.6 Backup Delineation Soil Samples

Nineteen (19) sample locations [BUC-1 to BUC-19], in areas beyond the delineation soil sample locations mentioned previously, were held under a separate chain-of-custody in the event that further laboratory analysis of delineation sample locations was required. Additional laboratory analyses were performed on a total of twenty (20) of forty-five (45) soil samples collected from twelve (12) of the nineteen (19) sample locations.

Laboratory analyses of the backup delineation soils samples indicated TPH (C6-C35) concentrations 24.16 mg/Kg to 136.7 mg/Kg. All analyzed TPH (C6-C35) concentrations in the backup delineation soil samples were below the target cleanup levels for TPH (C6-C35) incorporating the UTL (151.90 mg/Kg). Laboratory analysis for chlorides in the backup delineation soils samples indicated concentrations ranging from 18.5 mg/Kg to 1,650 mg/Kg. Chloride concentrations exceeding the target cleanup level of 600 mg/Kg were analyzed in soil samples collected from: BUC-1@8" (1,530 mg/Kg); BUC-15@24" (658 mg/Kg); and, BUC-15@30" (1,650 mg/Kg).

6.7 Stockpile Samples

Six (6) discrete soil samples were collected from two (2) stockpiles located at the Site. One (1) stockpile consisting of approximately 28 cubic yards, exists on the southwest corner of the Site and occurred as a result of the 1PR-3961 Release [SP-1(A) to SP-1(C)]. A second stockpile exists on the northeast corner of the bermed battery area, in close proximity to the primary storm water outfall [SP-2(A) to SP-2(C)]. The material in the second stockpile consists of approximately 20 cubic yards and was originally scraped from the pad as a result of the 1PR-4836 Release.

Laboratory analyses was performed on the stockpiles for waste characterization and indicated benzene concentrations ranging from nondetectable to 0.00074 mg/Kg, total BTEX concentrations ranging from nondetectable to 0.00074 mg/Kg, TPH (C6-C35) concentrations ranging from 3.00 mg/Kg to 705 mg/Kg, and chloride concentrations ranging from 6.7 mg/Kg to 21,100 mg/Kg.

7.0 SIGNIFANCE OF DATA

The approach to establish a path forward to address the exceedances detected in soil samples collected at the Site included: a statistical evaluation of the data; followed by identification of areas associated with data points that require additional evaluation; and, selection of a remedial approach to address affected areas within the operating facility boundaries and surrounding State lands, beyond the fenced perimeter.

7.1 Chloride Analytical Method

Analysis for Chloride was completed using EPA Method 300.0 - Determination of Inorganic Anions by Ion Chromatography **(Appendix E).** The extraction method used for a solid material requires (the addition of a reagent water equal to 10 times the weight of the dry solid sample (normally 5-10 grams). This slurry is mixed for 10 minutes using a magnetic stirring device and resulting slurry filtered using a 0.45 µ membrane type filter before analysis of the sample occurs. This process removes all chloride ions from the soil sample.

The on-site situation is very different from the extraction process identified above as contact with storm water and affected soil is very limited. The amount of soil surface area exposed to the stormwater is minimal and no mixing takes place. Subsequently the concentration of chloride ion, although soluble in water will be significant less than the samples analyzed in the laboratory. Therefore the statistical analysis/evaluation and the remedial options presented below have been developed to address the more realistic chloride ion concentrations that can be expected to migrate from the chloride affected soil at the site via stormwater runoff or stormwater infiltration into the subsurface.

7.2 Statistical Evaluation

An accepted statistical method for determining a background value from a set of data is the 95% upper tolerance limit (UTL). The UTL represents a statistical value whereby 95% of the sampled population will fall below the value with 95% confidence. Usually, the UTL will tend to be higher than the highest value in the background data set that was used to calculate the UTL. A total of seventeen (17) soil samples, considered to be representative of background conditions, were utilized to calculate the UTL (i.e., upper tolerance limit of background conditions). Any single data point from the site that is above the background UTL indicates an exceedance or affected soil. Per NMOCD guidance, for TPH, the affected soil is background plus 100 mg/Kg. This equates to a total of 151.90 mg/Kg, utilizing the calculated UTL of 51.90 mg/Kg. **Table 1** identifies TPH concentrations above the 151.90 mg/Kg in red bold text in the TPH (C6-C35) column. A similar approach was

applied to Chloride concentrations in soil for this Site. A UTL of 277.50 mg/Kg was calculated and added to the regulatory limit of 600 mg/kg for a value of 877.50 mg/Kg as the level of which to evaluate Chloride affected soils. It is requested that an approach, similar to determining acceptable concentrations of TPH, be authorized by the NMOCD for Chlorides in soil. The UTL calculations for Chlorides are presented in **Appendix F**. **Figure 3** *TPH Affected Area Map above NMOCD Limits (100 mg/Kg)* display TPH affected area without UTL Concentrations and **Figure 4** *Chloride Affected Area Map above NMOCD Limit (600 mg/Kg)* display chloride affected areas without UTL Concentrations. Figures 3 and Figure 4 highlight the affected areas based on a TPH limit of 100 mg/kg and a Chloride limit of 600 mg/Kg. **Figure 5** *TPH Affected Area Map above NMOCD limit using UTL (151.9 mg/Kg)* and **Figure 6** *Chloride Affected Area Map above NMOCD Limit using UTL (877.5 mg/Kg),* highlight the affected areas based on a UTL TPH limit of 151.9 mg/kg and a UTL Chloride limit of 877.5 mg/Kg.

7.3 Areas Requiring Additional Investigation

Evaluation of the analytical results of soil samples collected from the four (4) deeper soil borings (B-1 through B-4), demonstrates that the vertical delineation is complete for TPH [C6-C35]. For Chlorides, elevated concentrations were analyzed at 10-feet bgs at boring location B-2 and increased slightly at 20-feet bgs. Elevated concentrations of Chlorides were also analyzed in soil samples collected from B-4 at 5-feet bgs, and decreased in the soil samples collected from 10-feet bgs and 20-feet bgs. Although not indicative of surface migration due to the number of samples collected in the area that are below NMOCD limits, vertical delineation is not considered complete.

Two (2) sample locations (CD-1 and CD-2), where samples were collected from areas representative of a cardinal direction, indicated elevated Chloride concentrations. CD-1 was collected south of the loading and unloading pad and CD-2 was collected outside of the bermed facility area to the northeast. It is recommended that two (2) additional cardinal samples be collected further to the north of CD-1 and CD-2 outside of the facility perimeter berm area. The CD-7 sample will serve as a cardinal direction sample to the west.

All other areas are considered delineated for both TPH and Chlorides.

7.4 Areas Requiring Excavation and Treatment.

On-Site facility areas are considered the area bound by the perimeter berm and fence. Off-Site areas are considered those areas beyond the facility perimeter berm and fence.

Off-Site TPH exceedance were noted in the long chain hydrocarbon range (TPH [C22-C35]) at 5-feet bgs in soil boring locations B2, B3 and B4. Only two (2) other locations, D17 and D19, indicated TPH exceedances above 151.90 mg/Kg (UTL). These areas are identified in **Figure 5** *TPH Affected Area Map above NMOCD limit using UTL (151.9 mg/Kg)*. Although not indicative of surface migration due to the number of samples

collected in the area that are below NMOCD limits, current plans call for treatment of these areas with hydrocarbon degrading bacterial and nutrient solution, to decrease the TPH concentrations. Four (4) treatments will be applied over a 1-year period.

Laboratory analysis of soil samples collected from off-Site sample locations indicated Chloride exceedances in soil boring B-4 at 5-feet bgs and BUC-15 at 30-inches bgs, south of the facility. Based on the number of samples collected surrounding these two (2) locations, soil boring B-4 and BUC-15 are not an area representative of a release from the facility.

On the east side of the facility, near the storm water outfall, there are several Chloride exceedances. This area is shown on **Figure 6** *Chloride Affected Area Map above NMOCD Limit using UTL (877.5 mg/Kg)*. This affected area will be excavated to a depth of 9 inches and the soil replaced with gypsum and caliche to form a treatment zone for storm water running off the facility. Stormwater leaving the treatment zone should be tested to evaluate the effectiveness of the proposed treatment method.

The area by CD-2 and BUC-1 have higher Chloride concentrations but are not associated with the release from the two incidents at this facility.

On-Site TPH and Chlorides exceedances are also shown on **Figure 5** and **Figure 6** respectively. They are primarily related to the 1RP-4836 release. Current plans call for the area outlined in red to be excavated to a depth of 1-foot bgs to remove the majority of the affected soil. The excavated area will be backfilled with 3 to 6-inches of gypsum followed by 6 to 9 inches of caliche. The backfilled area will be compacted and graded to meet current surface conditions. The compacted caliche at the surface will allow storm water to run off and limit infiltration down into the subsurface as well as limiting the soil surface area exposed to stormwater runoff. The gypsum functions to decrease the effect of Chloride affected soil by changing the sodium absorption ratio (SAR). The stormwater runoff should be tested to evaluate the concentration of chloride ion in stormwater and then develop treatment options. Although Chloride affected soils are present below the 1-foot bgs depth scheduled for excavation, a more comprehensive investigation will be completed to identify additional areas requiring remediation when the facility is closed.

7.5 Disposition of Stockpiles

The analytical data for the stockpile samples was used to prepare profiles and attain approval for final disposal at the Sundance Facility in Eunice NM (**Appendix G**). A total of 48 cubic yards of affected soil were transported from the Site for disposal.

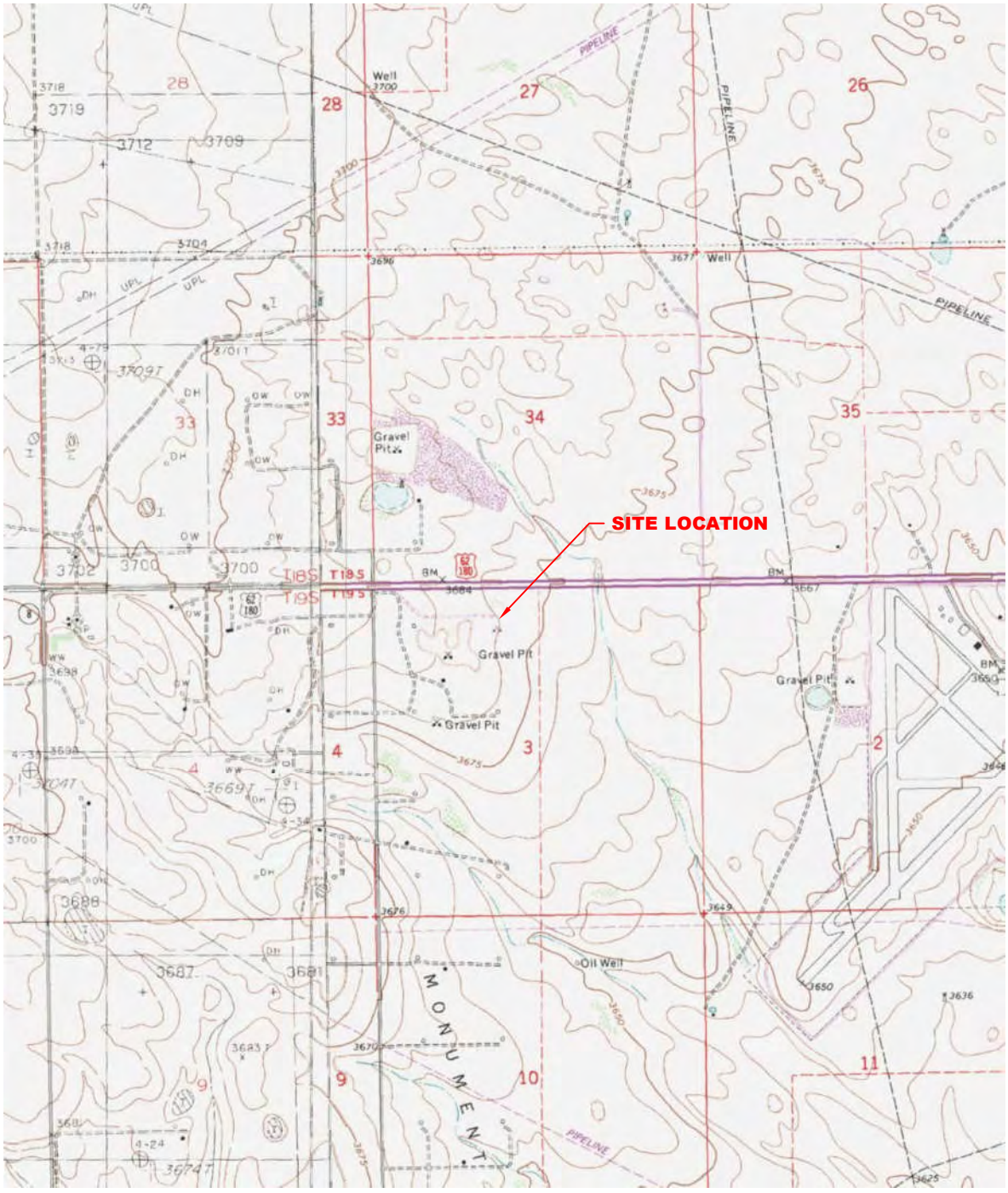
8.0 CONCLUSIONS AND RECOMMENDATION

Based on the investigation completed at this Site, the data collected and presented in this report, EnTech presents the following conclusion and recommendations;

1. A visual inspection of the liner within the containment berm of the tank battery system at six (6) separate locations shows the liner to be in good condition and did not require repairs. Other areas of the liner over the berm that were damaged are scheduled to be repaired in April 2018.
2. The two (2) samples from the berm reported chloride and TPH concentrations above NMOCD limits. These exposed affected berm soils will be covered with HDPE liner as part of the repairs to the secondary containment system for the tanks and exposure to stormwater will cease. The soils associated with the berms will be addressed when the facility is closed.
3. Evaluation of the analytical results of soil samples collected indicated the main areas investigated are considered delineated for both TPH and Chlorides with minor exceptions for the cardinal direction to the north.
4. The use of the UTL for both TPH and Chlorides provides a very conservative value for identifying the affected soils. For TPH the majority of the hydrocarbons detected are in the TPH MRO C22- C36 range with very few detections in the TPH GRO C-6 to C-10 range, along with low OVM reading less than 35 ppmv, indicate more stable hydrocarbon and less volatile hydrocarbon which generally present less health and migration risk.
5. For Chlorides, the laboratory extraction method is not representative of the site condition where stormwater contract is limited to exposure to compacted caliche and therefore a limited potential to remove chloride ions from the surface or subsurface soil.
6. Laboratory analysis of soil samples collected from off-Site sample locations south of the facility indicated Chloride exceedances in soil boring B-4 at 5-feet bgs and BUC-15 at 30-inches bgs, south of the facility. Based on the number of samples collected surrounding these two (2) locations, soil boring B-4 and BUC-15 are not an area representative of a release from the facility. Although the perimeter berms had been breached during the time of the inspection with NMOCD and NMSL, it has been ascertained the breaches were made to allow stormwater that had pooled in this area to drain to allow access for removal of the burned tanks and replacement with new tanks.
7. Off-Site TPH exceedance at 5-feet bgs was analyzed in soil samples collected from soil boring locations B2, B3 and B4. Soil sample locations D17 and D19 will be treated with hydrocarbon degrading bacterial and nutrient solution, to decrease the TPH concentrations.
8. On Site TPH affected soil will be excavated as part of the removal of chlorides affected oil when the facility is closed
9. The chlorides affected onsite and offsite areas identified for remediation in **Section 7.4** (both on-site and off-site) once implemented, will result in the removal of the majority of the remaining exposed impacted soil from the 1RP-483 Release. Restoration activities will result in treatment zones for precipitation that may seep into the compacted caliche surface or run-off the compacted caliche. Any

precipitation will contact gypsum and have its SAR changed to decrease the effects of chlorides to the surrounding soil.

Figures



0 1/2

Miles

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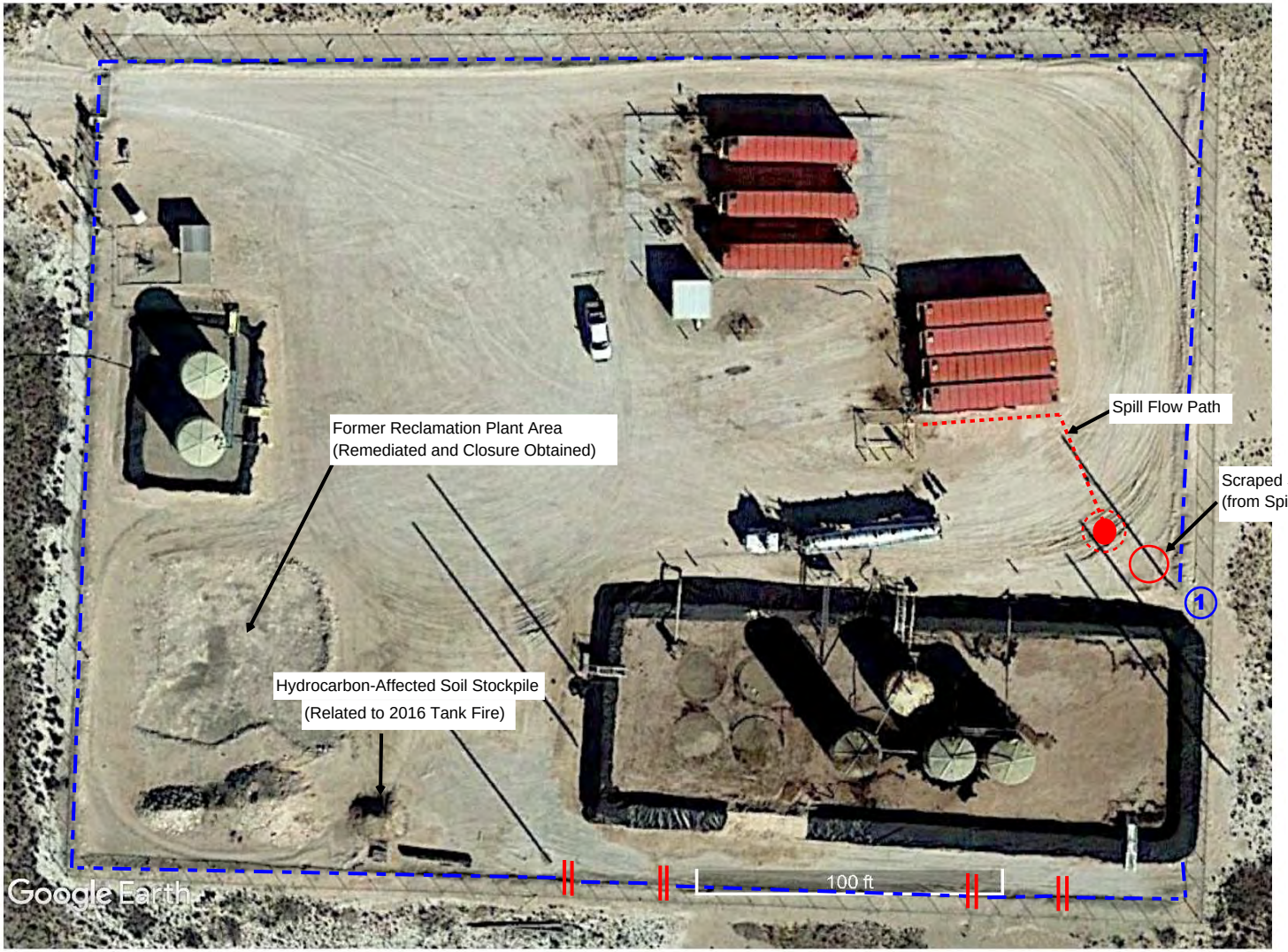
Figure 1
Site Location Map
CJES - State AB SWD #1
Hobbs, New Mexico

Job No.: CJES15051	DATE: 10/17



Legend:

- -Spill Flow Path
- -Spill - Pooled Area
- -Earthen Berm
- -Break in Earthen Berm
- 1 -Storm Water Outfall

0 100
Feet

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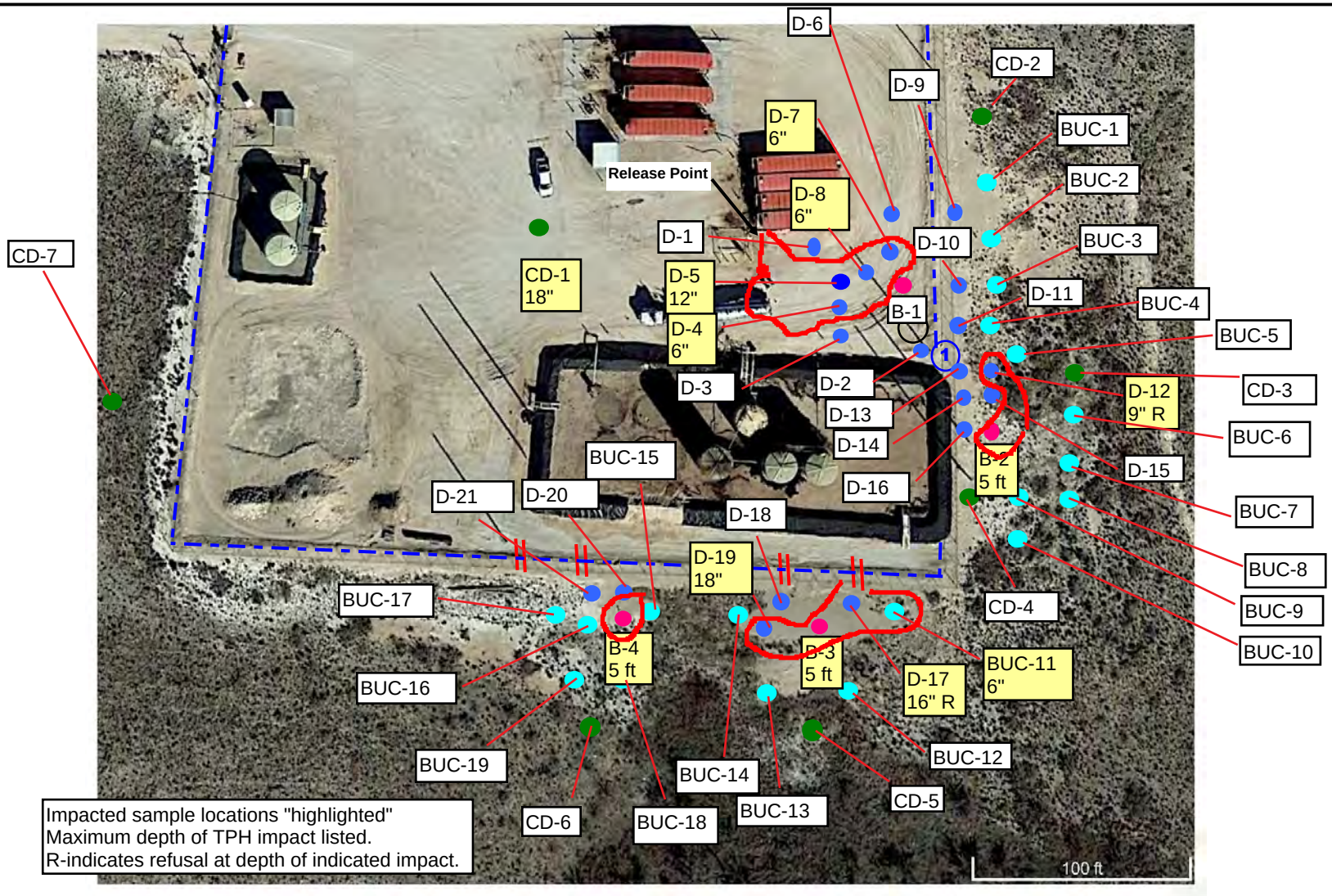
Figure 2
Site Layout
CJES -State AB SWD #1
Hobbs, New Mexico

Job No.: CJES15051	DATE: 11/17



Legend:

- **-Earthen Berm**
- **-Break in Earthen Berm**
- **-Storm Water Outfall**
- **-Scraped Soil Stockpile (from Spill) and Soil Grab Sample Location**
- **-Soil Sample Locations for Delineation**
- **-Soil Sample Locations - Cardinal Directions**
- **-Backup Soil Sample Locations**
- **-Deep Boring to 20 Feet Below Ground Surface - Probable Pooling Location**
- **- TPH Exceedance**
- **- Sample locations exceeding TPH concentration of 100 mg/kg**

0 100

Feet

N

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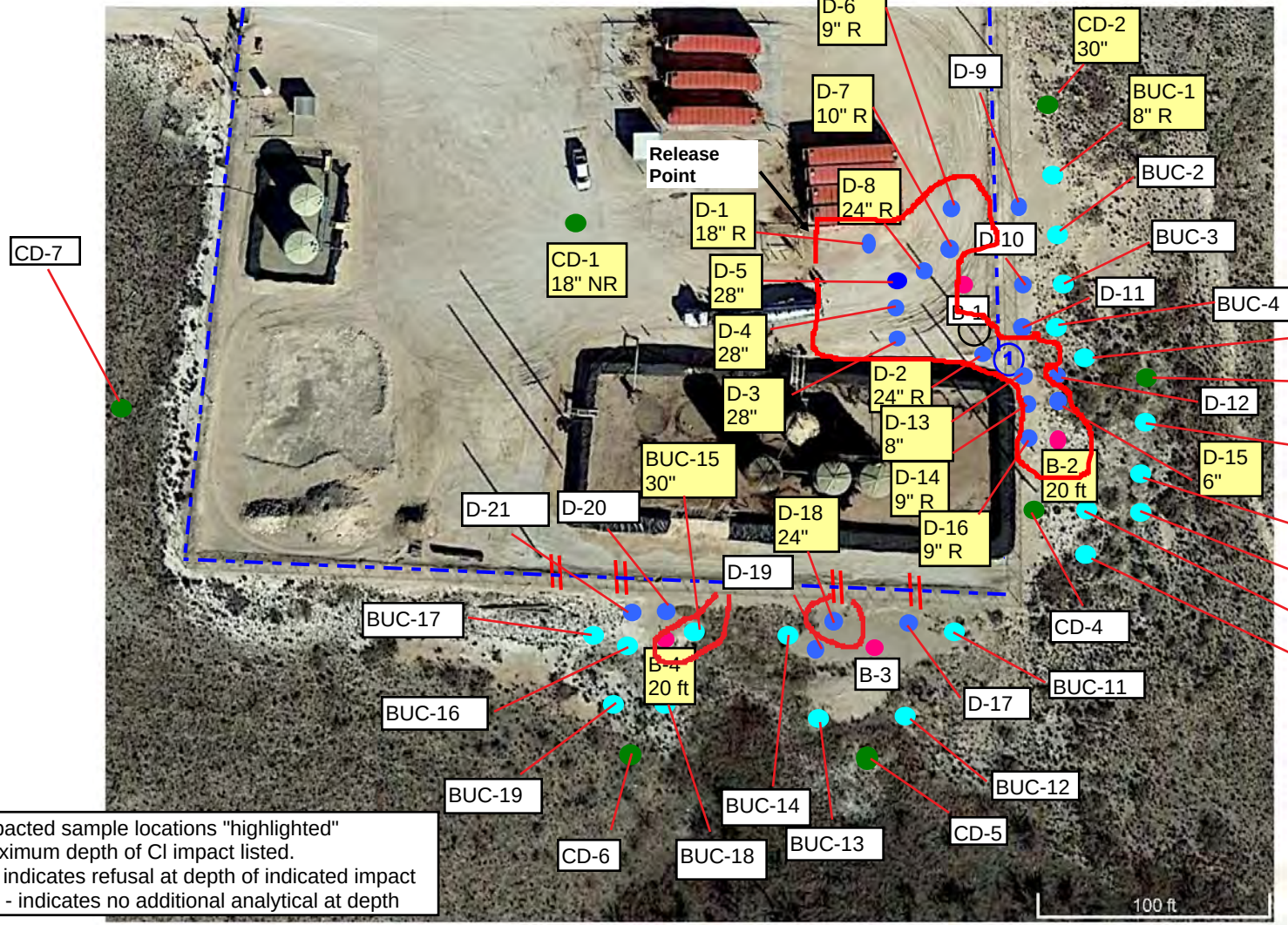
Figure 3
TPH Affected Area Map above NMOCD Limit (100 mg/kg)
CJES -State AB SWD #1
Hobbs, New Mexico

Job No.: CJES18002 | **DATE: 4/16/18**



Impacted sample locations "highlighted"
Maximum depth of Cl impact listed.
R - indicates refusal at depth of indicated impact
NR - indicates no additional analytical at depth

Legend:

- **-Earthen Berm**
- **-Chloride Exceedence**
- **-Break in Earthen Berm**
- **-Sample Location Exceeding NMOCD Limit of 600 mg/kg**
- **-Storm Water Outfall**
- **-Scraped Soil Stockpile (from Spill) and Soil Grab Sample Location**
- **-Soil Sample Locations for Delineation**
- **-Soil Sample Locations - Cardinal Directions**
- **-Backup Soil Sample Locations**
- **-Deep Boring to 20 Feet Below Ground Surface - Probable Pooling Location**

0 100
Feet

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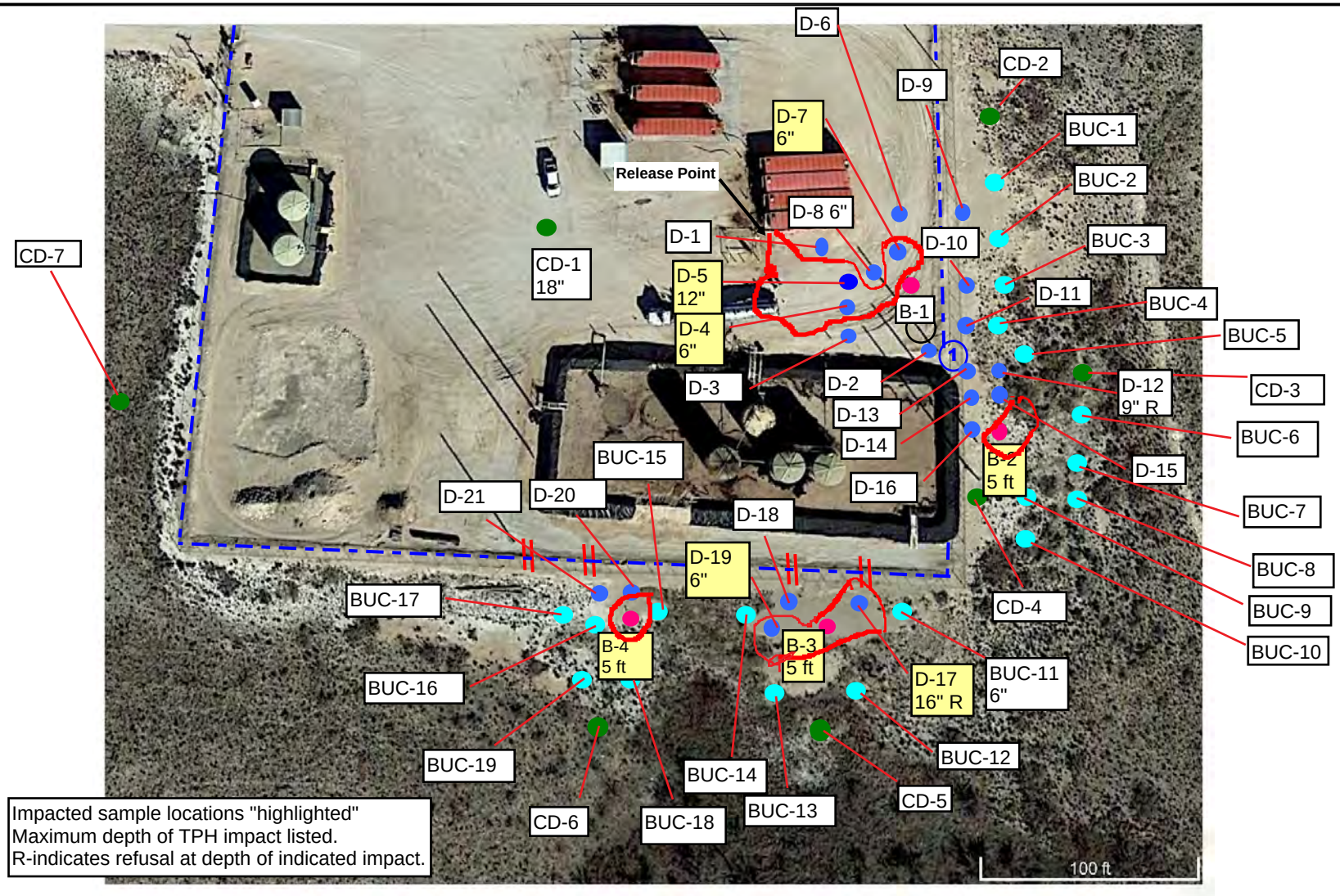
Figure 4
Chloride Affected Area Map
Above NMOCD Limit (600 mg/kg)
CJES -State AB SWD #1
Hobbs, New Mexico

Job No.: CJES18002 | **DATE: 4/16/18**



Legend:

- -Earthen Berm
- -TPH Exceedance
- -Break in Earthen Berm
- -Sample locations above TPH concentration of 151.9 mg/kg
- -Storm Water Outfall
- -Scraped Soil Stockpile (from Spill) and Soil Grab Sample Location
- -Soil Sample Locations for Delineation
- -Soil Sample Locations - Cardinal Directions
- -Backup Soil Sample Locations
- -Deep Boring to 20 Feet Below Ground Surface - Probable Pooling Location

0 100
Feet

N

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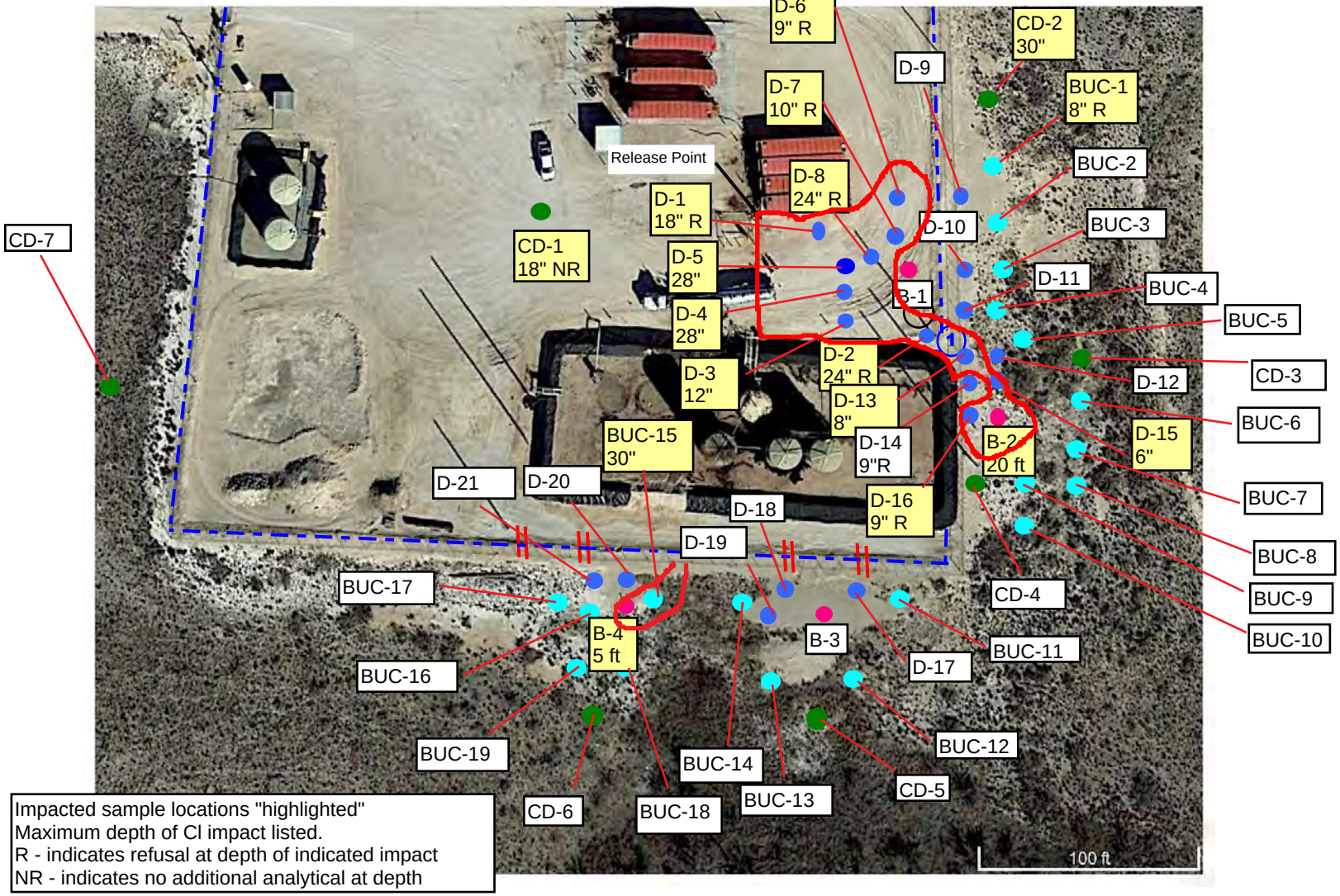
Figure 5
TPH Affected Area Map above NMOCD limit using UTL (151.9 mg/kg)

CJES -State AB SWD #1
Hobbs, New Mexico

Job No.: CJES18002 | **DATE: 4/16/18**



Impacted sample locations "highlighted"
Maximum depth of Cl impact listed.
R - indicates refusal at depth of indicated impact
NR - indicates no additional analytical at depth

Legend:

- **-Earthen Berm**
- **-Chloride Exceedance**
- **-Break in Earthen Berm**
- **- Sample locations exceeding Chloride concentration of 877.5 mg/kg**
- **-Storm Water Outfall**
- **-Scraped Soil Stockpile (from Spill) and Soil Grab Sample Location**
- **-Soil Sample Locations for Delineation**
- **-Soil Sample Locations - Cardinal Directions**
- **-Backup Soil Sample Locations**
- **-Deep Boring to 20 Feet Below Ground Surface - Probable Pooling Location**

0 100
Feet

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Figure 6
Chloride Affected Area Map above NMOCD limit using UTL (877.5mg/kg)

CJES -State AB SWD #1
Hobbs, New Mexico

Job No.: CJES18002 | **DATE: 4/16/18**

Table

Table 1 : Summary of Sample Analytical Results

Sample Location ID	Laboratory ID	Date	Time	Depth Collected (inches bgs)	PID (ppmv)	Chlorides (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethylbenzene (ug/Kg)	Xylene (ug/Kg)	TPH [GRO: C6-C10] (mg/Kg)	TPH [DRO:C10-C22] (mg/Kg)	Q	TPH [MRO: C22-C36] (mg/Kg)	Q	TPH [C6-C35] (mg/Kg)	Utilized in UCL/UTL Calculations
	NMOCD Standard limits				100.00	600.00	10 mg/Kg									100.00	
	Calc UCL - Chloride					58.22											
	Calc UTL - Chloride					277.50											
	Calc UCL - TPH															27.24	
	Calc UTL - TPH															51.90	
	Regulator Limit - Chloride (using UTL)*					**877.50**											
	Regulator Limit - TPH (using UTL)															**151.90**	
BG-1	TD16243-13	2/5/2018	725	2"-3"	5.4	11.3	NA	NA	NA	NA	<2.6	5.07		31.8		36.87	x
BG-2	TD16243-14	2/5/2018	728	2"-3"	7.3	24.8	NA	NA	NA	NA	<2.5	<2.5		18.7		18.7	x
BG-3	TD16243-15	2/5/2018	731	2"-3"	2.5	10.8	NA	NA	NA	NA	<3.7	5.17	J	24.7		29.87	x
BG-4	TD16243-16	2/5/2018	735	2"-3"	3.1	8.3	NA	NA	NA	NA	<3.2	5.06	J	26.6		31.66	x
BG-5	TD16243-17	2/5/2018	739	2"-3"	7.1	10.5	NA	NA	NA	NA	<2.6	3.08	J	20.9		23.98	x
BG-6	TD16243-18	2/5/2018	743	2"-3"	9.1	14	NA	NA	NA	NA	<2.5	3.35	J	30.8		34.15	x
BG-7	TD16243-19	2/5/2018	805	2"-3"	2.2	6.4	NA	NA	NA	NA	<2.5	5.07		36.2		41.27	x
BG-8	TD16243-20	2/5/2018	809	2"-3"	4.8	6.4	NA	NA	NA	NA	<2.5	3.99	J	26.9		30.89	x
BG-9	TD16243-21	2/5/2018	813	2"-3"	6.0	<5.1	NA	NA	NA	NA	<2.6	<2.6		7.09		7.09	x
BG-10	TD16243-22	2/5/2018	817	2"-3"	5.3	5.7	NA	NA	NA	NA	<2.7	3.32	J	17.2		20.52	x
DUP-1 (BG-1)	TD16243-23	2/5/2018	725	2"-3"	5.4	30.8	NA	NA	NA	NA	<2.5	<2.5		17.1		17.1	x
B-1@5	TD16243-1	2/5/2018	1124	5-feet	4.0	382	NA	NA	NA	NA	<2.7	<2.7		10.3		10.3	
B-1@10	TD16243-2	2/5/2018	1126	10-feet	4.9	318	NA	NA	NA	NA	<2.5	<2.7		4.91	J	4.91	
B-1@20	TD16243-3	2/5/2018	1215	20-feet	4.7	171	NA	NA	NA	NA	<2.9	<2.7		4.83	J	4.83	
B-2@5	TD16243-4	2/5/2018	1205	5-feet	7.9	308	NA	NA	NA	NA	<2.7	47.5		295		**342.5**	
B-2@10	TD16243-5	2/5/2018	1210	10-feet	8.2	**956**	NA	NA	NA	NA	<2.7	<5.4		16.6		16.6	
B-2@20	TD16243-6	2/5/2018	1215	20-feet	11.2	**1130**	NA	NA	NA	NA	<2.7	3.26	J	12.8		16.1	
B-3@5	TD16243-7	2/5/2018	1242	5-feet	4.3	359	NA	NA	NA	NA	<2.8	21.6	J	131		**152.6**	
B-3@10	TD16243-8	2/5/2018	1244	10-feet	13.0	110	NA	NA	NA	NA	<2.8	2.77	J	10.6		13.37	
B-3@20	TD16243-9	2/5/2018	1250	20-feet	4.6	103	NA	NA	NA	NA	<2.6	<2.6	J	9.71		9.71	
B-4@5	TD16243-10	2/5/2018	1324	5-feet	1.9	**1350**	NA	NA	NA	NA	<2.8	64.1		365		**429.1**	
B-4@10	TD16243-11	2/5/2018	1325	10-feet	10.4	**662**	NA	NA	NA	NA	<3.1	4.55	J	23		27.55	
B-4@20	TD16243-12	2/5/2018	1331	20-feet	3.5	**811**	NA	NA	NA	NA	<5.8	3.01	J	13.8		16.81	
Liner Loc 1		12/19/2017				No Sample Collected - Visual Inspection of Liner Only											
Liner Loc 2		12/19/2017				No Sample Collected - Visual Inspection of Liner Only											
Liner Loc 3		12/19/2017				No Sample Collected - Visual Inspection of Liner Only											
Liner Loc 4		12/19/2017				No Sample Collected - Visual Inspection of Liner Only											
Liner Loc 5		12/19/2017				No Sample Collected - Visual Inspection of Liner Only											
Liner Loc 6		12/19/2017				No Sample Collected - Visual Inspection of Liner Only											
Berm-1	TD14096-1	12/19/2017	1715	NA	NA	4720	<0.011	<0.036	<0.0089	<0.0065	12.8	84.8		68.6		166.2	
Berm-2	TD14096-2	12/19/2017	1720	NA	NA	2980	<0.013	<0.040	<0.0098	<0.0071	<6.4	5.78		7.21		12.99	
CD-1@6		2/7/2018	1030		No recovery												
CD-1@18	TD16439-38	2/7/2018	1030	18	1.9	**2760**	NA	NA	NA	NA	<5.3	28.4		116		**144.4**	
CD-1@30	TD16439-39R	2/7/2018	1030	30	4.3	NA	NA	NA	NA	NA	<5.2	17.1		45.8		62.9	
DUP-2 (CD-1@18)	TD16439-45	2/7/2018	1030	18	1.9	**963**	NA	NA	NA	NA	<5.3	25.3		93.7		**119**	
CD-2@6	TD16439-40	2/7/2018	1440	6	1.9	**1360**	NA	NA	NA	NA	<5.6	4.12	J	11.7		15.82	
CD-2@12	TD16439-41	2/7/2018	1440	12	3.7	**1100**	NA	NA	NA	NA	<5.6	3.53	J	8.22		11.75	
CD-2@30	TD16439-42B	2/7/2018	1440	30	2.8	**1180**	NA	NA	NA	NA	NA	NA		NA		NA	
CD-3@4	TD16439-43	2/7/2018	1710	4	3.7	129	NA	NA	NA	NA	<5.6	3.74	J	9.07		12.81	
CD-3@7	TD16439-44	2/7/2018	1710	7	1.2	110	NA	NA	NA	NA	<5.7	4.51	J	6.76		11.27	
CD-3@7					refusal												
CD-4@6	TD16466-1	2/8/2018	935	6	0.3	78.6	NA	NA	NA	NA	5.75	2.82	J	6.69		15.26	
CD-4@18	TD16466-2	2/8/2018	935	18	0.7	84.8	NA	NA	NA	NA	6.6	3.39	J	6.42		16.41	
CD-4@30	NRA	2/8/2018	935		0.8												
CD-5@6	TD16466-4	2/8/2018	1035	6	0.3	191	NA	NA	NA	NA	7.2	4.41	J	25.1		36.71	x
CD-5@16	TD16466-5	2/8/2018	1035	16	0.1	44.2	NA	NA	NA	NA	6.69	<2.9		4.08	J	10.77	x
CD-5@28	NRA	2/8/2018	1035	28	0.1	NA	NA	NA	NA	NA	NA	NA		NA		NA	
CD-6@6	TD16466-7	2/8/2018	1347	6	4.1	25.7	NA	NA	NA	NA	5.64	<2.7		3.36	J	9	x
CD-6@8	TD16466-8	2/8/2018	1347	8	5.6	80.8	NA	NA	NA	NA	<7.0	3.92	J	<3.1		3.92	x
CD-6@8					refusal												
CD-7@6	TD16466-9	2/8/2018	1358	6	2.8	38.9	NA	NA	NA	NA	<5.9	4.19	J	4.85	J	9.04	x
CD-7@8	TD16466-10	2/8/2018	1358	8	3.7	210	NA	NA	NA	NA	<5.6	7.04		8.36		15.4	x
CD-7@8					refusal												
D-1@6	TD16439-1	2/7/2018	1055	6	5.9	**5120**	NA	NA	NA	NA	<6.2	15.8		54.9		70.7	
D-1@18	TD16439-2	2/7/2018	1055	18	16	**4410**	NA	NA	NA	NA	<5.9	5.18	J	10.5		15.68	
D-1@28					refusal												
D-2@6	TD16439-3	2/7/2018	1117	6	4.6	**1360**	NA	NA	NA	NA	<5.7	4.85	J	16.9		21.75	
D-2@24	TD16439-4	2/7/2018	1117	24	8.9	**1510**	NA	NA	NA	NA	<6.5	<2.9		<2.9		<6.5	
D-2@28					refusal												
D-3@6	TD16439-5	2/7/2018	1146	6	5.8	**979**	NA	NA	NA	NA	<5.6	13.6		66.8		80.4	
D-3@12	TD16439-6	2/7/2018	1146	12	6.3	**1090**	NA	NA	NA	NA	<5.9	6.64		32.8		39.44	
D-3@28	TD16439-7B	2/7/2018	1146	28	6.3	**749**	NA	NA	NA	NA	NA	NA		NA		NA	
D-4@6	TD16439-8	2/7/2018	1205	6	6.8	**2870**	NA	NA	NA	NA	<5.5	35.3		150		**185.3**	
D-4@12	TD16439-9	2/7/2018	1205	12	4.1	**1700**	NA	NA	NA	NA	<5.9	16.2		60		76.2	
D-4@28	TD16439-10B	2/7/2018	1205	28	3.8	**3590**	NA	NA	NA	NA	NA	NA		NA		NA	
DUP-3 (D-4@12)	TD16439-46	2/7/2018	1205	12	4.1	**1290**	NA	NA	NA	NA	<5.7	19.4		69.1		88.5	
D-5@6	TD16439-11	2/7/2018	1217	6	2.2	**1920**	NA	NA	NA	NA	<5.3	20.7		66.1		86.8	
D-5@12	TD16439-12	2/7/2018	1217	12	4.3	**2220**	NA	NA	NA	NA	<5.6	148		319		**467**	
D-5@28	TD16439-13B	2/7/2018	1217	28	5	**1670**	NA	NA	NA	NA	<5.2	22.7		42		64.7	
D-6@6	TD16439-14	2/7/2018	1230	6	3.8	**2460**	NA	NA	NA	NA	<5.6	14.3		54.1		68.4	
D-6@9	TD16439-15	2/7/2018	1230	9	3.5	**1920**	NA	NA	NA	NA	<5.3	8.07		20.3		28.37	
D-6@10					refusal												
D-7@6	TD16439-16	2/7/2018	1253	6	3	**2120**	NA	NA	NA	NA	<5.3	47.8		120		**167.8**	
D-7@10	TD16439-17	2/7/2018	1253	10	3.1	**2920**	NA	NA	NA	NA	<5.3	13.4		37.6		51	
D-7@10					refusal												
D-8@6	TD16439-18	2/7/2018	1306	6	1.8	**2410**	NA	NA	NA	NA	<5.5	25.1		85.7		**110.8**	
D-8@12	TD16439-19	2/7/2018	1306	12	1.2	**2060**	NA	NA	NA	NA	<5.8	11.6		55.7		67.3	
D-8@24	TD-16439-20B	2/7/2018	1306	24	1.4	**1860**	NA	NA	NA	NA	NA	NA		NA		NA	

Table 1 : Summary of Sample Analytical Results

Sample Location ID	Laboratory ID	Date	Time	Depth Collected (inches bgs)	PID (ppmv)	Chlorides (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethylbenzene (ug/Kg)	Xylene (ug/Kg)	TPH [GRO: C6-C10] (mg/Kg)	TPH [DRO:C10-C22] (mg/Kg)	Q	TPH [MRO: C22-C36] (mg/Kg)	Q	TPH [C6-C35] (mg/Kg)	Utilized in UCL/UTL Calculations
DUP-4 (D-8@6)	TD16439-47	2/7/2018	1306	6	1.8	2700	NA	NA	NA	NA	<5.5	20.5		75.9		96.4	
D-9@6	TD16439-21	2/7/2018	1508	6	0.3	142	NA	NA	NA	NA	<5.4	3.86	J	13.7		17.56	
D-9@10	TD16439-22	2/7/2018	1508	10	0.5	242	NA	NA	NA	NA	<5.5	3.5	J	7.74		11.24	
D-9@10									refusal								
D-10@6	TD16439-23	2/7/2018	1532	6	0.4	204	NA	NA	NA	NA	<5.7	2.79	J	4.1	J	6.89	
D-10@9	TD16439-24	2/7/2018	1532	9	0.5	492	NA	NA	NA	NA	<5.4	6.65		35.7		42.35	
D-10@9									refusal								
D-11@6	TD16439-25	2/7/2018	1600	6	0.4	94.3	NA	NA	NA	NA	<5.8	3.94	J	7.07		11.01	
D-11@9	TD16439-26	2/7/2018	1600	9	0.8	95.2	NA	NA	NA	NA	8.89	5.84		17.2		23.04	
D-11@9									refusal								
D-12@6	TD16439-27	2/7/2018	1624	6	0.5	72.9	NA	NA	NA	NA	<5.2	4.79	J	13.9		18.69	
D-12@9	TD16439-28	2/7/2018	1624	9	1	71.9	NA	NA	NA	NA	<5.2	13.5		108		121.5	
D-12@9									refusal								
D-13@6	TD16439-29	2/7/2018	1630	6	0.8	1170	NA	NA	NA	NA	<5.6	3.75	J	9.01		12.76	
D-13@8	TD16439-30	2/7/2018	1630	8	0.5	1090	NA	NA	NA	NA	<5.6	4.44	J	14.4		18.84	
D-13@20	TD16439-31B	2/7/2018	1630		1.6	185	NA	NA	NA	NA	NA	NA		NA		NA	
D-14@6	TD16439-32	2/7/2018	1443	6	0.6	428	NA	NA	NA	NA	<5.7	4.95	J	12.8		17.75	
D-14@9	TD16439-33	2/7/2018	1443	9	1	753	NA	NA	NA	NA	<5.2	4.59	J	16.1		20.69	
D-14@9									refusal								
D-15@6	TD16439-34	2/7/2018	1452	6	0.8	1990	NA	NA	NA	NA	<5.8	3.86	J	10.9		14.76	
D-15@20	TD16439-35	2/7/2018	1452	20	1.4	359	NA	NA	NA	NA	<6.2	3.21	J	<2.8		3.21	
D-15@20									refusal								
D-16@6	TD16439-36	2/7/2018	1702	6	0.9	1900	NA	NA	NA	NA	<5.6	4.37	J	12.6		16.97	
D-16@9	TD16439-37	2/7/2018	1702	9	5.2	1790	NA	NA	NA	NA	<5.5	3.5	J	4.24	J	7.74	
D-16@9									refusal								
D-17@6	TD16466-11	2/8/2018	1016	6	0	355	NA	NA	NA	NA	<6.8	5.63	J	14.7		20.33	
D-17@16	TD16466-12	2/8/2018	1016	16	0.1	260	NA	NA	NA	NA	<6.4	43.7		154		197.7	
D-17@16									refusal								
D-18@6	TD16466-13	2/8/2018	1100	6	0	600	NA	NA	NA	NA	<6.6	8.87		26.5		35.37	
D-18@24	TD16466-14	2/8/2018	1100	24	0.2	838	NA	NA	NA	NA	<6.1	12.8		33.8		46.6	
D-18@28	TD16466-15R	2/8/2018	1100	28	0.1	197	NA	NA	NA	NA	NA	NA		NA		NA	
DUP-9 (D-18@6)	TD16466-23	2/8/2018	1100	6	0	692	NA	NA	NA	NA	<5.6	6.59		20.7		27.29	
D-19@6	TD16466-16	2/8/2018	1111	6	0	222	NA	NA	NA	NA	<5.7	83.9		300		383.9	
D-19@18	TD16466-17	2/8/2018	1111	18	0.1	308	NA	NA	NA	NA	<4.9	26.6		107		133.6	
D-19@30	TD16466-18A	2/8/2018	1111	30	0.1	NA	NA	NA	NA	NA	<5.6	12.4		39.8		52.2	
D-20@6	TD16466-19	2/8/2018	1253	6	1.2	80.2	NA	NA	NA	NA	<6.2	3.7	J	3.8	J	7.5	
D-20@13	TD16466-20	2/8/2018	1253	13	1.3	158	NA	NA	NA	NA	<6.8	7.3		16.9		24.2	
D-20@13									refusal								
D-21@6	TD16466-21	2/8/2018	1302	6	2.5	66.9	NA	NA	NA	NA	<6.9	6.51		14.7		21.21	
D-21@13	TD16466-22	2/8/2018	1302	13	1.2	85.2	NA	NA	NA	NA	<7.3	5.57	J	11		16.57	
D-21@13									refusal								
DUP-10 (D-21@6)	TD16466-24	2/8/2018	1302	6	2.5	<5.6	NA	NA	NA	NA	<6.1	12.6		48.1		60.7	
SP-1 [A]	TD16465-1	2/8/2018	750	3	0.6	6.7	0.42 "J"	1.0 "J"	<0.58	<1.2	<5.7	<2.7		3.00	J	3.00	
SP-1 [B]	TD16465-2	2/8/2018	753	3	0.3	1030	0.74	2.1 "J"	0.77 "J"	1.5 "J"	12.70	81.20		196.00		289.90	
SP-1 [C]	TD16465-3	2/8/2018	757	3	0.5	558	0.51 "J"	0.86 "J"	<0.63	<1.3	<5.4	19.60		187.00		206.60	
SP-2 [A]	TD16465-4	2/8/2018	809	3	0	16500	0.42 "J"	1.1 "J"	<0.62	<1.2	6.40	3.44	J	5.75		15.59	
SP-2 [B]	TD16465-5	2/8/2018	813	3	0.2	21100	0.53	1.1 "J"	<0.60	<1.2	<5.1	14.10		35.00		49.10	
SP-2 [C]	TD16465-6	2/8/2018	821	3	0	15700	<0.35	<0.46	<0.58	<1.2	<5.3	236.00		469.00		705.00	
DUP-5 (SP-1 [A])	TD16465-7	2/8/2018	750	3	0.6	6.5	<0.34	4.3 "J"	<0.57	1.2 "J	5.85	2.74	J	4.81	J	13.40	
BUC-1@6	NA	2/8/2018	1500	5	3.2												
BUC-1@8	TD16424-2A	2/8/2018	1500	8	1.1	1530	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-1@9									refusal								
BUC-2@6	NRA	2/8/2018	1520	6	1.9												
BUC-2@12	NRA	2/8/2018	1520	12	0.4												
BUC-2@12									refusal								
BUC-3@6	NRA	2/8/2018	1545	6	1.8												
BUC-3@10	NRA	2/8/2018	1545	10	5.4												
BUC-3@10									refusal								
BUC-4@6	NRA	2/8/2018	1608	6	4.3												
BUC-4@9	NRA	2/8/2018	1608	9	1.9												
BUC-4@9									refusal								
BUC-5@6	TD16424-9R	2/8/2018	1615	6	3.7	18.5	NA	NA	NA	NA	10.5	9.31		42.1		61.91	
BUC-5@12	TD16424-10R	2/8/2018	1615	12	2.1	20.1	NA	NA	NA	NA	<5.9	7.56		16.6		24.16	
BUC-5@12									refusal								
BUC-6@6	NRA	2/8/2018	855	6	0.6												
BUC-6@8	TD16489-2R	2/8/2018	855	8	1.7	186	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-6@8									refusal								
BUC-7@6	NRA	2/8/2018	903	6	1.3												
BUC-7@10	TD16489-4R	2/8/2018	903	10	1.3	62.6	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-7@10									refusal								
BUC-8@6	NRA	2/8/2018	913	6	1.1												
BUC-8@8	TD16489-6R	2/8/2018	913	8	1.3	68.1	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-8@8									refusal								
BUC-9@6	TD16489-7R	2/8/2018	923	6	1.2	43.6	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-9@12	TD16489-8R	2/8/2018	923	12	1.5	29.3	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-9@12									refusal								
BUC-10@6	NRA	2/8/2018	946	6	1.5												
BUC-10@16	NRA	2/8/2018	946	16	0.4												
BUC-10@24	NRA	2/8/2018	946	24	0.7												
DUP-6 (BUC-10@24)	NRA	2/8/2018	946	24	0.7												
BUC-11@6	TD16489-12A	2/8/2018	1006	6	0.2	358	NA	NA	NA	NA	<5.7	26.7		110		136.7	
BUC-11@13	TD16489-13A	2/8/2018	1006	13	0.5	441	NA	NA	NA	NA	<5.4	7.44		19.1		26.54	
BUC-11@13									refusal								
DUP-7 (BUC-11@13)	TD16489-34R	2/8/2018	1006	13	0.5	500	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-12@6	TD16489-14A	2/8/2018	1025	6	0.2	43.3	NA	NA	NA	NA	<6.2	15.4		49.5		64.9	
BUC-12@18	TD16489-15A	2/8/2018	1025	18	0.3	28.6	NA	NA	NA	NA	<5.6	14.9		67.6		82.5	

Table 1 : Summary of Sample Analytical Results

Sample Location ID	Laboratory ID	Date	Time	Depth Collected (inches bgs)	PID (ppmv)	Chlorides (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethylbenzene (ug/Kg)	Xylene (ug/Kg)	TPH [GRO: C6-C10] (mg/Kg)	TPH [DRO:C10-C22] (mg/Kg)	Q	TPH [MRO: C22-C36] (mg/Kg)	Q	TPH [C6-C35] (mg/Kg)	Utilized in UCL/UTL Calculations
BUC-12@18					refusal												
BUC-13@6	NRA	2/8/2018	1050	6	0.2												
BUC-13@20	NRA	2/8/2018	1050	20	0.2												
BUC-13@30	NRA	2/8/2018	1050	30	0.3												
BUC-14@6	NRA	2/8/2018	1125	6	0.4												
BUC-14@24	NRA	2/8/2018	1125	24	0.2												
BUC-14@32	NRA	2/8/2018	1125	32	0.3												
BUC-15@6	TD16489-22R	2/8/2018	1245	6	3.8	47.9	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-15@24	TD16489-23R	2/8/2018	1245	24	2.4	**658**	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-15@30	TD16489-24R	2/8/2018	1245	30	2.6	**1650**	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-16@6	NRA	2/8/2018	1313	6	4.6												
BUC-16@9	TD16489-26R	2/8/2018	1313	9	4.6	317	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-16@9					refusal												
BUC-17@6	NRA	2/8/2018	1320	6	3.2												
BUC-17@8	NRA	2/8/2018	1320	8	3.3												
BUC-17@8					refusal												
BUC-18@6	NRA	2/8/2018	1329	6	3												
BUC-18@9	TD16489-30R	2/8/2018	1329	9	4.8	22.6	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-18@9					refusal												
DUP-8 (BUC-18@9)	TD16489-35R	2/8/2018	1329	9	4.8	37.0	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-19@6	Hold	2/8/2018	1336	6	5.7												
BUC-19@8	TD16489-32R	2/8/2018	1336	8	3.9	40.5	NA	NA	NA	NA	NA	NA		NA		NA	
BUC-19@8					refusal												

Bolded *results indicate an exceedance over established concentrations (UTL + OCD Site Ranking). Excludes SP and Berm Data*

Bolded *results indicate an exceedance over established concentrations (OCD Site Ranking). Excludes SP and Berm Data*

**Establishing UTL + OCD Site Ranking for chlorides will require discussions with NMOCD for concurrence.*

NRA = Not required for analysis as area delineated by other sample locations

NA = Not analyzed

UCL = Upper Confidence Level/Limit

UTL = Upper Tolerance Level/Limit

Appendix C: Laboratory Analytical Reports

(enclosed CD only)

Following Reports are enclosed:

TD16243

TD16424

TD16439

TD16465

TD16466

TD16489

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EnTech Consulting Corporation

CJES State AB SWD #1/LEA Co,N Mex

SGS Job Number: TD16243

Sampling Date: 02/05/18

Report to:

EnTech Consulting Corporation
21 Waterway Ave, Suite 300
The Woodlands, TX 77380
chan.patel@entechservice.com; pete.schram@entechservice.com

ATTN: Chan Patel

Total number of pages in report: **106**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Richard Rodriguez
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-18-28) AR (14-016-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) NJ (TX010) OK (2017-002) VA (8999)

Sections: 1 2 3 4 5 6 7 8

Table of Contents

Sample Summary

EnTech Consulting Corporation

Job No: TD16243

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16243-1	02/05/18	11:24		02/07/18	SO	Soil	B1@5' (SOIL BORING)
TD16243-2	02/05/18	11:26		02/07/18	SO	Soil	B1@10' (SOIL BORING)
TD16243-3	02/05/18	11:29		02/07/18	SO	Soil	B1@20' (SOIL BORING)
TD16243-4	02/05/18	12:05		02/07/18	SO	Soil	B2@5' (SOIL BORING)
TD16243-5	02/05/18	12:10		02/07/18	SO	Soil	B2@10' (SOIL BORING)
TD16243-6	02/05/18	12:15		02/07/18	SO	Soil	B2@20' (SOIL BORING)
TD16243-7	02/05/18	12:42		02/07/18	SO	Soil	B3@5' (SOIL BORING)
TD16243-8	02/05/18	12:44		02/07/18	SO	Soil	B3@10' (SOIL BORING)
TD16243-9	02/05/18	12:50		02/07/18	SO	Soil	B3@20' (SOIL BORING)
TD16243-10	02/05/18	13:24		02/07/18	SO	Soil	B4@5' (SOIL BORING)
TD16243-11	02/05/18	13:25		02/07/18	SO	Soil	B4@10' (SOIL BORING)
TD16243-12	02/05/18	13:31		02/07/18	SO	Soil	B4@20' (SOIL BORING)
TD16243-13	02/05/18	07:25		02/07/18	SO	Soil	BG-1 (BACKGROUND)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16243

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16243-14	02/05/18	07:28		02/07/18	SO	Soil	BG-2 (BACKGROUND)
TD16243-15	02/05/18	07:31		02/07/18	SO	Soil	BG-3 (BACKGROUND)
TD16243-16	02/05/18	07:35		02/07/18	SO	Soil	BG-4 (BACKGROUND)
TD16243-17	02/05/18	07:39		02/07/18	SO	Soil	BG-5 (BACKGROUND)
TD16243-18	02/05/18	07:43		02/07/18	SO	Soil	BG-6 (BACKGROUND)
TD16243-19	02/05/18	08:05		02/07/18	SO	Soil	BG-7 (BACKGROUND)
TD16243-20	02/05/18	08:09		02/07/18	SO	Soil	BG-8 (BACKGROUND)
TD16243-21	02/05/18	08:13		02/07/18	SO	Soil	BG-9 (BACKGROUND)
TD16243-22	02/05/18	08:17		02/07/18	SO	Soil	BG-10 (BACKGROUND)
TD16243-23	02/05/18	00:00		02/07/18	SO	Soil	DUP-01

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: TD16243
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/05/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16243-1	**B1@5' (SOIL BORING)**					
TPH (> C22-C36) [a]		10.3	5.3	2.7	mg/kg	SW846 8015C
Chloride		382	11		mg/kg	EPA 300.0
TD16243-2	**B1@10' (SOIL BORING)**					
TPH (> C22-C36) [a]		4.91 J	5.3	2.7	mg/kg	SW846 8015C
Chloride		318	26		mg/kg	EPA 300.0
TD16243-3	**B1@20' (SOIL BORING)**					
TPH (> C22-C36) [a]		4.83 J	5.3	2.7	mg/kg	SW846 8015C
Chloride		171	27		mg/kg	EPA 300.0
TD16243-4	**B2@5' (SOIL BORING)**					
TPH (C10-C22) [a]		47.5	26	13	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		295	26	13	mg/kg	SW846 8015C
Chloride		308	26		mg/kg	EPA 300.0
TD16243-5	**B2@10' (SOIL BORING)**					
TPH (> C22-C36) [b]		16.6	5.4	2.7	mg/kg	SW846 8015C
Chloride		956	54		mg/kg	EPA 300.0
TD16243-6	**B2@20' (SOIL BORING)**					
TPH (C10-C22) [a]		3.26 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		12.8	5.2	2.6	mg/kg	SW846 8015C
Chloride		1130	52		mg/kg	EPA 300.0
TD16243-7	**B3@5' (SOIL BORING)**					
TPH (C10-C22) [a]		21.6 J	22	11	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		131	22	11	mg/kg	SW846 8015C
Chloride		359	26		mg/kg	EPA 300.0
TD16243-8	**B3@10' (SOIL BORING)**					
TPH (C10-C22) [a]		2.77 J	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		10.6	5.3	2.7	mg/kg	SW846 8015C
Chloride		110	5.2		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16243
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/05/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16243-9	**B3@20' (SOIL BORING)**					
TPH (> C22-C36) [a]		9.71	5.2	2.6	mg/kg	SW846 8015C
Chloride		103	5.1		mg/kg	EPA 300.0
TD16243-10	**B4@5' (SOIL BORING)**					
TPH (C10-C22) [a]		64.1	27	14	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		365	27	14	mg/kg	SW846 8015C
Chloride		1350	54		mg/kg	EPA 300.0
TD16243-11	**B4@10' (SOIL BORING)**					
TPH (C10-C22) [a]		4.55 J	5.6	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		23.0	5.6	2.8	mg/kg	SW846 8015C
Chloride		662	56		mg/kg	EPA 300.0
TD16243-12	**B4@20' (SOIL BORING)**					
TPH (C10-C22) [a]		3.01 J	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		13.8	5.4	2.7	mg/kg	SW846 8015C
Chloride		811	54		mg/kg	EPA 300.0
TD16243-13	**BG-1 (BACKGROUND)**					
TPH (C10-C22) [a]		5.07	5.0	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		31.8	5.0	2.5	mg/kg	SW846 8015C
Chloride		11.3	5.0		mg/kg	EPA 300.0
TD16243-14	**BG-2 (BACKGROUND)**					
TPH (> C22-C36) [a]		18.7	5.1	2.5	mg/kg	SW846 8015C
Chloride		24.8	5.1		mg/kg	EPA 300.0
TD16243-15	**BG-3 (BACKGROUND)**					
TPH (C10-C22) [a]		5.17 J	6.3	3.1	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		24.7	6.3	3.1	mg/kg	SW846 8015C
Chloride		10.8	6.3		mg/kg	EPA 300.0
TD16243-16	**BG-4 (BACKGROUND)**					
TPH (C10-C22) [a]		5.06 J	5.7	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		26.6	5.7	2.8	mg/kg	SW846 8015C
Chloride		8.3	5.7		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16243
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/05/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16243-17	**BG-5 (BACKGROUND)**					
TPH (C10-C22) [a]		3.08 J	5.0	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		20.9	5.0	2.5	mg/kg	SW846 8015C
Chloride		10.5	5.1		mg/kg	EPA 300.0
TD16243-18	**BG-6 (BACKGROUND)**					
TPH (C10-C22) [a]		3.35 J	5.0	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		30.8	5.0	2.5	mg/kg	SW846 8015C
Chloride		14.0	5.1		mg/kg	EPA 300.0
TD16243-19	**BG-7 (BACKGROUND)**					
TPH (C10-C22) [a]		5.07	5.0	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		36.2	5.0	2.5	mg/kg	SW846 8015C
Chloride		6.4	5.0		mg/kg	EPA 300.0
TD16243-20	**BG-8 (BACKGROUND)**					
TPH (C10-C22) [a]		3.99 J	5.0	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		26.9	5.0	2.5	mg/kg	SW846 8015C
Chloride		6.4	5.1		mg/kg	EPA 300.0
TD16243-21	**BG-9 (BACKGROUND)**					
TPH (> C22-C36) [a]		7.09	5.1	2.6	mg/kg	SW846 8015C
TD16243-22	**BG-10 (BACKGROUND)**					
TPH (C10-C22) [a]		3.32 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		17.2	5.2	2.6	mg/kg	SW846 8015C
Chloride		5.7	5.2		mg/kg	EPA 300.0
TD16243-23	**DUP-01**					
TPH (> C22-C36) [a]		17.1	5.1	2.5	mg/kg	SW846 8015C
Chloride		30.8	5.0		mg/kg	EPA 300.0

(a) Analysis performed at SGS Orlando, FL.
(b) Re-extract results reported because they were significantly higher than original results. Sample re-extracted beyond hold-time. Analysis performed at SGS Orlando, FL.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B1@5' (SOIL BORING)		
Lab Sample ID:	TD16243-1	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	93.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149150.D	1	02/16/18 19:33	AFL	n/a	n/a	F:GCD6225
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.19 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1@5' (SOIL BORING)		
Lab Sample ID:	TD16243-1	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14791.D	1	02/15/18 18:43	AFL	02/15/18 08:30	F:OP68788	F:GWW596
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.3	2.7	mg/kg	
	TPH (> C22-C36)	10.3	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1@5' (SOIL BORING)		
Lab Sample ID:	TD16243-1	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	93.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	382	11	mg/kg	2	02/08/18 19:48	SM	EPA 300.0
Solids, Percent	93.5		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B1@10' (SOIL BORING)		
Lab Sample ID:	TD16243-2	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149154.D	1	02/16/18 21:20	AFL	n/a	n/a	F:GCD6225
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.66 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	72%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1@10' (SOIL BORING)		
Lab Sample ID:	TD16243-2	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14792.D	1	02/15/18 19:12	AFL	02/15/18 08:30	F:OP68788	F:GWW596
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.3	2.7	mg/kg	
	TPH (> C22-C36)	4.91	5.3	2.7	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1@10' (SOIL BORING)		
Lab Sample ID:	TD16243-2	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	318	26	mg/kg	5	02/08/18 21:07	SM	EPA 300.0
Solids, Percent	94.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B1@20' (SOIL BORING)		
Lab Sample ID:	TD16243-3	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149155.D	1	02/16/18 21:47	AFL	n/a	n/a	F:GCD6225
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	2.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1@20' (SOIL BORING)		
Lab Sample ID:	TD16243-3	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14793.D	1	02/15/18 19:41	AFL	02/15/18 08:30	F:OP68788	F:GWW596
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.3	2.7	mg/kg	
	TPH (> C22-C36)	4.83	5.3	2.7	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1@20' (SOIL BORING)		
Lab Sample ID:	TD16243-3	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	171	27	mg/kg	5	02/08/18 21:23	SM	EPA 300.0
Solids, Percent	92.3		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B2@5' (SOIL BORING)		
Lab Sample ID:	TD16243-4	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149156.D	1	02/16/18 22:13	AFL	n/a	n/a	F:GCD6225
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.31 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		56-149%
98-08-8	aaa-Trifluorotoluene	72%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2@5' (SOIL BORING)		
Lab Sample ID:	TD16243-4	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14794.D	5	02/15/18 20:10	AFL	02/15/18 08:30	F:OP68788	F:GWW596
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	47.5	26	13	mg/kg	
	TPH (> C22-C36)	295	26	13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2@5' (SOIL BORING)		
Lab Sample ID:	TD16243-4	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	308	26	mg/kg	5	02/08/18 21:39	SM	EPA 300.0
Solids, Percent	93.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B2@10' (SOIL BORING)		
Lab Sample ID:	TD16243-5	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	92.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149157.D	1	02/16/18 22:40	AFL	n/a	n/a	F:GCD6225
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.35 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2@10' (SOIL BORING)		
Lab Sample ID:	TD16243-5	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14868.D	1	02/22/18 21:32	AFL	02/22/18 09:15	F:OP68867	F:GWW600
Run #2 [b]	WW14802.D	1	02/19/18 20:35	AFL	02/19/18 08:09	F:OP68811	F:GWW597

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2	20.4 g	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.4	2.7	mg/kg	
	TPH (> C22-C36)	16.6	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%	46%	56-122%

(a) Re-extract results reported because they were significantly higher than original results. Sample re-extracted beyond hold-time. Analysis performed at SGS Orlando, FL.
(b) Confirmation run. Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2@10' (SOIL BORING)		
Lab Sample ID:	TD16243-5	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	92.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	956	54	mg/kg	10	02/08/18 21:55	SM	EPA 300.0
Solids, Percent	92.4		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B2@20' (SOIL BORING)		
Lab Sample ID:	TD16243-6	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	94.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149158.D	1	02/16/18 23:07	AFL	n/a	n/a	F:GCD6225
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.13 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	72%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2@20' (SOIL BORING)		
Lab Sample ID:	TD16243-6	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14803.D	1	02/19/18 21:03	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.26	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	12.8	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2@20' (SOIL BORING)		
Lab Sample ID:	TD16243-6	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	94.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1130	52	mg/kg	10	02/08/18 22:11	SM	EPA 300.0
Solids, Percent	94.4		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B3@5' (SOIL BORING)		
Lab Sample ID:	TD16243-7	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	92.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149159.D	1	02/16/18 23:34	AFL	n/a	n/a	F:GCD6225
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.18 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3@5' (SOIL BORING)		
Lab Sample ID:	TD16243-7	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14830.D	4	02/20/18 10:07	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	21.6	22	11	mg/kg	J
	TPH (> C22-C36)	131	22	11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3@5' (SOIL BORING)		
Lab Sample ID:	TD16243-7	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	92.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	359	26	mg/kg	5	02/08/18 22:27	SM	EPA 300.0
Solids, Percent	92.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B3@10' (SOIL BORING)		
Lab Sample ID:	TD16243-8	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	93.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149160.D	1	02/17/18 00:01	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.12 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		56-149%
98-08-8	aaa-Trifluorotoluene	74%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3@10' (SOIL BORING)		
Lab Sample ID:	TD16243-8	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14831.D	1	02/20/18 10:36	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.77	5.3	2.7	mg/kg	J
	TPH (> C22-C36)	10.6	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3@10' (SOIL BORING)		
Lab Sample ID:	TD16243-8	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	93.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	110	5.2	mg/kg	1	02/08/18 22:43	SM	EPA 300.0
Solids, Percent	93.7		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B3@20' (SOIL BORING)		
Lab Sample ID:	TD16243-9	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	95.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149161.D	1	02/17/18 00:27	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.14 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3@20' (SOIL BORING)		
Lab Sample ID:	TD16243-9	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14810.D	1	02/20/18 00:25	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.2	2.6	mg/kg	
	TPH (> C22-C36)	9.71	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3@20' (SOIL BORING)		
Lab Sample ID:	TD16243-9	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	95.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	103	5.1	mg/kg	1	02/08/18 22:59	SM	EPA 300.0
Solids, Percent	95.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B4@5' (SOIL BORING)		
Lab Sample ID:	TD16243-10	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	91.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149162.D	1	02/17/18 00:54	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.19 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		56-149%
98-08-8	aaa-Trifluorotoluene	72%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4@5' (SOIL BORING)		
Lab Sample ID:	TD16243-10	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14832.D	5	02/20/18 11:05	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	64.1	27	14	mg/kg	
	TPH (> C22-C36)	365	27	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4@5' (SOIL BORING)		
Lab Sample ID:	TD16243-10	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	91.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1350	54	mg/kg	10	02/08/18 23:14	SM	EPA 300.0
Solids, Percent	91.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B4@10' (SOIL BORING)		
Lab Sample ID:	TD16243-11	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	89.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149166.D	1	02/17/18 02:41	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.1	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4@10' (SOIL BORING)		
Lab Sample ID:	TD16243-11	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	89.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14833.D	1	02/20/18 11:34	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.55	5.6	2.8	mg/kg	J
	TPH (> C22-C36)	23.0	5.6	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4@10' (SOIL BORING)		
Lab Sample ID:	TD16243-11	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	89.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	662	56	mg/kg	10	02/09/18 00:33	SM	EPA 300.0
Solids, Percent	89.2		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B4@20' (SOIL BORING)		
Lab Sample ID:	TD16243-12	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149167.D	1	02/17/18 03:08	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	2.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		56-149%
98-08-8	aaa-Trifluorotoluene	72%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4@20' (SOIL BORING)		
Lab Sample ID:	TD16243-12	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14813.D	1	02/20/18 01:52	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.01	5.4	2.7	mg/kg	J
	TPH (> C22-C36)	13.8	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4@20' (SOIL BORING)		
Lab Sample ID:	TD16243-12	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	811	54	mg/kg	10	02/09/18 01:21	SM	EPA 300.0
Solids, Percent	92.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-1 (BACKGROUND)		
Lab Sample ID:	TD16243-13	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	97.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149168.D	1	02/17/18 03:34	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.09 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		56-149%
98-08-8	aaa-Trifluorotoluene	71%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-1 (BACKGROUND)		
Lab Sample ID:	TD16243-13	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	97.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14814.D	1	02/20/18 02:21	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.07	5.0	2.5	mg/kg	
	TPH (> C22-C36)	31.8	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-1 (BACKGROUND)		
Lab Sample ID:	TD16243-13	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	97.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	11.3	5.0	mg/kg	1	02/09/18 01:37	SM	EPA 300.0
Solids, Percent	97.7		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-2 (BACKGROUND)		
Lab Sample ID:	TD16243-14	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	97.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149169.D	1	02/17/18 04:01	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.27 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		56-149%
98-08-8	aaa-Trifluorotoluene	74%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-2 (BACKGROUND)		
Lab Sample ID:	TD16243-14	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	97.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14815.D	1	02/20/18 02:50	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.1	2.5	mg/kg	
	TPH (> C22-C36)	18.7	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-2 (BACKGROUND)		
Lab Sample ID:	TD16243-14	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	97.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	24.8	5.1	mg/kg	1	02/09/18 01:53	SM	EPA 300.0
Solids, Percent	97.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-3 (BACKGROUND)		
Lab Sample ID:	TD16243-15	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	78.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149170.D	1	02/17/18 04:27	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.28 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.4	3.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-3 (BACKGROUND)		
Lab Sample ID:	TD16243-15	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	78.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14816.D	1	02/20/18 03:19	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.17	6.3	3.1	mg/kg	J
	TPH (> C22-C36)	24.7	6.3	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-3 (BACKGROUND)		
Lab Sample ID:	TD16243-15	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	78.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.8	6.3	mg/kg	1	02/09/18 02:09	SM	EPA 300.0
Solids, Percent	78.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-4 (BACKGROUND)		
Lab Sample ID:	TD16243-16	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	86.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149171.D	1	02/17/18 04:54	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.5	3.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		56-149%
98-08-8	aaa-Trifluorotoluene	74%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-4 (BACKGROUND)		
Lab Sample ID:	TD16243-16	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	86.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14817.D	1	02/20/18 03:47	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.06	5.7	2.8	mg/kg	J
	TPH (> C22-C36)	26.6	5.7	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-4 (BACKGROUND)		
Lab Sample ID:	TD16243-16	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	86.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	8.3	5.7	mg/kg	1	02/09/18 02:25	SM	EPA 300.0
Solids, Percent	86.7		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-5 (BACKGROUND)		
Lab Sample ID:	TD16243-17	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149172.D	1	02/17/18 05:21	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.07 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	72%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-5 (BACKGROUND)		
Lab Sample ID:	TD16243-17	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14818.D	1	02/20/18 04:16	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.08	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	20.9	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-5 (BACKGROUND)		
Lab Sample ID:	TD16243-17	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10.5	5.1	mg/kg	1	02/09/18 03:12	SM	EPA 300.0
Solids, Percent	97.6		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-6 (BACKGROUND)		
Lab Sample ID:	TD16243-18	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	97.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149176.D	1	02/17/18 07:08	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.18 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-6 (BACKGROUND)		
Lab Sample ID:	TD16243-18	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	97.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14822.D	1	02/20/18 06:12	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.35	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	30.8	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-6 (BACKGROUND)		
Lab Sample ID:	TD16243-18	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	97.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	14.0	5.1	mg/kg	1	02/09/18 03:28	SM	EPA 300.0
Solids, Percent	97.5		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-7 (BACKGROUND)		
Lab Sample ID:	TD16243-19	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	98.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149177.D	1	02/17/18 07:34	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	74%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-7 (BACKGROUND)		
Lab Sample ID:	TD16243-19	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	98.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14834.D	1	02/20/18 12:03	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.07	5.0	2.5	mg/kg	
	TPH (> C22-C36)	36.2	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-7 (BACKGROUND)		
Lab Sample ID:	TD16243-19	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	98.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	6.4	5.0	mg/kg	1	02/09/18 03:44	SM	EPA 300.0
Solids, Percent	98.5		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-8 (BACKGROUND)		
Lab Sample ID:	TD16243-20	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149178.D	1	02/17/18 08:01	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.22 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	76%		56-149%
98-08-8	aaa-Trifluorotoluene	71%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-8 (BACKGROUND)		
Lab Sample ID:	TD16243-20	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14835.D	1	02/20/18 12:32	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.99	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	26.9	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-8 (BACKGROUND)		
Lab Sample ID:	TD16243-20	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	6.4	5.1	mg/kg	1	02/09/18 04:00	SM	EPA 300.0
Solids, Percent	97.6		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-9 (BACKGROUND)		
Lab Sample ID:	TD16243-21	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149179.D	1	02/17/18 08:28	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-9 (BACKGROUND)		
Lab Sample ID:	TD16243-21	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14825.D	1	02/20/18 07:38	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.1	2.6	mg/kg	
	TPH (> C22-C36)	7.09	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-9 (BACKGROUND)		
Lab Sample ID:	TD16243-21	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	97.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 5.1	5.1	mg/kg	1	02/09/18 04:48	SM	EPA 300.0
Solids, Percent	97.6		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG-10 (BACKGROUND)		
Lab Sample ID:	TD16243-22	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149180.D	1	02/17/18 08:54	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.13 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-10 (BACKGROUND)		
Lab Sample ID:	TD16243-22	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14836.D	1	02/20/18 13:00	AFL	02/19/18 08:09	F:OP68811	F:GWW597
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.32	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	17.2	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BG-10 (BACKGROUND)		
Lab Sample ID:	TD16243-22	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	5.7	5.2	mg/kg	1	02/09/18 05:36	SM	EPA 300.0
Solids, Percent	95.4		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-01		
Lab Sample ID:	TD16243-23	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C	**Percent Solids:**	98.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD149181.D	1	02/17/18 09:21	AFL	n/a	n/a	F:GCD6226
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.14 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		56-149%
98-08-8	aaa-Trifluorotoluene	73%		66-132%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-01		
Lab Sample ID:	TD16243-23	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	98.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW14842.D	1	02/21/18 15:29	AFL	02/19/18 08:09	F:OP68811	F:GWW598
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.1	2.5	mg/kg	
	TPH (> C22-C36)	17.1	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		56-122%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-01		
Lab Sample ID:	TD16243-23	**Date Sampled:**	02/05/18
Matrix:	SO - Soil	**Date Received:**	02/07/18
		Percent Solids:	98.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	30.8	5.0	mg/kg	1	02/09/18 06:23	SM	EPA 300.0
Solids, Percent	98		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 2

FED-EX Tracking #
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # TD16243

Client / Reporting Information

Company Name: EnTech Consulting Corp
Street Address: 21 Waterway Ave, Suite 300
City: The Woodlands State: TX Zip: 77380
Project Contact: Pete Schram E-mail: pete.schram@entechservice.com
Phone #: 210-326-7831 Fax #
Sampler(s) Name(s): Pete Schram Phone #: 210 326 7831

Project Information

Project Name: CJES State AB SWD #1
Street: Lea Co, N Mex.
City State
Project #
Client Purchase Order #
Project Manager: Ryan Patel

Billing Information (if different from Report to)
Company Name: EnTech
Street Address: 21 Waterway Ave, #300
City: The Woodlands State: TX Zip
Attention:

Requested Analyses: TPH Method 8015 Ext. | Chloride Method 300.0 | GRO/DRO/MRO (C6-C36)

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TPH Method 8015 Ext.	Chloride Method 300.0	GRO/DRO/MRO (C6-C36)	LAB USE ONLY
1	B1 @ 5' (soil boring)	2/5/18	1124	PJS	S	1						✓							✓	✓		
2	B1 @ 10'		1126									✓							✓	✓		
3	B1 @ 20'		1129									✓							✓	✓		
4	B2 @ 5'		1205									✓							✓	✓		
5	B2 @ 10'		1210									✓							✓	✓		
6	B2 @ 20'		1215									✓							✓	✓		
7	B3 @ 5'		1242									✓							✓	✓		
8	B3 @ 10'		1244									✓							✓	✓		
9	B3 @ 20'		1250									✓							✓	✓		
10	B4 @ 5'		1324									✓							✓	✓		
11	B4 @ 10'		1325									✓							✓	✓		
12	B4 @ 20' (soil boring)	2/5/18	1331	PJS	S	1						✓							✓	✓		

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date Time	Received By	Date Time	Relinquished By	Date Time	Received By	Date Time
1 (Sampler) [signature]	2/5/18 1430	1 [signature]	2/5/18 1430	2 [signature]	2/5/18 1900	2 Jason Fisher	2/6/18 1400
3 Jason Fisher 2/6/18	16:00	3 FedEx		4 FX		4 [signature]	2/7/18 1015
5		5		Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

TD16243: Chain of Custody
Page 1 of 5

SGS ACCUTEST

CHAIN OF CUSTODY

PAGE 2 OF 2

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # TD16243

Client / Reporting Information

Company Name: EnTech Consulting Corp
Street Address: 21 Waterway Ave, Suite 300
City / State / Zip: The Woodlands TX 77380
Project Contact: Pete Schram
E-mail: pete.schram@entechservice.com
Phone #: 210-322-7831
Fax #:
Sampler(s) Name(s): Pete Schram
Phone #:

Project Information

Project Name: CJS State AB SWD #1
Street: Lea Co., NM
City / State:
Project #:
Client Purchase Order #:
Project Manager: Chan Patel

Billing Information (if different from Report to)
Company Name: EnTech Service Corp
Street Address: 21 Waterway Ave, # 300
City / State / Zip: The Woodlands TX
Attention: Chan Patel

Requested Analyses: Chloride Method 300.0; TPH Method 8015 EXT (GRO + DRO + MRO (C6-C36))

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Chloride Method 300.0	TPH Method 8015 EXT (GRO+DRO+MRO (C6-C36))	LAB USE ONLY
1	BG-1 (background)	2/5/18	725	PS	S	1						✓							✓	✓	13
2	BG-2	2/5/18	728	PS	S	1						✓							✓	✓	14
3	BG-3	2/5/18	731	PS	S	1						✓							✓	✓	15
4	BG-4	2/5/18	735	PS	S	1						✓							✓	✓	16
5	BG-5	2/5/18	739	PS	S	1						✓							✓	✓	16
6	BG-6	2/5/18	743	PS	S	1						✓							✓	✓	17
7	BG-7	2/5/18	805	PS	S	1						✓							✓	✓	18
8	BG-8	2/5/18	809	PS	S	1						✓							✓	✓	19
9	BG-9	2/5/18	813	PS	S	1						✓							✓	✓	20
10	BG-10 (background)	2/5/18	817	PS	S	1						✓							✓	✓	21
11	DUP-01	2/5/18	—	PS	S	1						✓							✓	✓	22
																					23

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Turnaround Time (Business days)
- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1 [signature]	2/5/18 1430	1 Chan Sn[illegible]	2/5/18 1430	2 [signature]	2/5/18 1900	2 Jason Fisher	2/6/18 14:00
Relinquished by Sampler: 3 Jason Fisher	2/6/18 16:00	3 FedEx		4 FedEx		4 [signature]	2/7/18 [illegible]
Relinquished by: 5		5		Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

ACCUTEST

COOLER TEMP FORM

TC# TD16243

Delivered by (circle one): FedEx/UPS ALGC Driver Client

Date: 2/7/18

Client: Enlied

Cooler Number: 1

Thermometer ID: IR5 CF, °C 0 Corrected Temp, °C 3.6

SAMPLES CONTAINED IN COOLER

ORIGIN ID:SGRA (830) 816-5434
ANGELINA SILVAS
BROADBENT & ASSOCIATES
113 FALLS COURT, SUITE # 700
BOERNE, TX 78006
UNITED STATES US

SHIP DATE: 24MAY17
ACTWGT: 55.0 LB MAN
CAD: 0243286/CAFE2816

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST
10165 HARWIN DRIVE
SUITE 150
HOUSTON TX 77036
(713) 271-4700
REF: WATER KITS / 50096

FedEx Express

FedEx
TRK# 7314 4441 8192
0221

WED - 07 FEB 10:30A
PRIORITY OVERNIGHT

AB SGRA

77036
TX-US IAH

Part # 156297-435 RRDB EXP 09/18

ACCUTEST LABORATORIES
CUSTODY SEAL CUSTODY SEAL
DATE / TIME SEALED: 2/7/18 14:20

pH Lot# 1004561

CUSTODY SEAL

INITIALS: JF

Form: SM027-06 Rev 10/24/2016

TD16243: Chain of Custody
Page 3 of 5

SGS Sample Receipt Summary

Job Number: TD16243 **Client:** ENTECH **Project:** CJES STATE AB SWD #1

Date / Time Received: **Delivery Method:** **Airbill #'s:**

No. Coolers: 1 **Therm ID:** IR9; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (3.6/3.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		

Quality Control Preservation	Y	or	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐		☐	☑	☐	☐
2. Trip Blank listed on COC:	☐		☐	☑		
3. Samples preserved properly:	☑		☐			
4. VOCs headspace free:	☐		☐	☑		

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Sample Receipt Log

Job #: TD16243 **Date / Time Received:** 2/7/2018 10:15:00 AM **Initials:** BG

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16243-1	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-2	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-3	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-4	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-5	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-6	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-7	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-8	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-9	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-10	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-11	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-12	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-13	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-14	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-15	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-16	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-17	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-18	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-19	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-20	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-21	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-22	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16243-23	4oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16243
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP46176/GN87677	5.0	0.0	mg/kg	100	95.9	95.9	90-110%
Chloride	GP46177/GN87677	5.0	0.0	mg/kg	100	96.5	96.5	90-110%
Chloride	GP46178/GN87677	5.0	0.0	mg/kg	100	97.7	97.7	90-110%

Associated Samples:
Batch GP46176: TD16243-1, TD16243-2, TD16243-3, TD16243-4, TD16243-5, TD16243-6, TD16243-7, TD16243-8, TD16243-9, TD16243-10
Batch GP46177: TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20
Batch GP46178: TD16243-21, TD16243-22, TD16243-23
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16243
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP46176/GN87677	TD16243-1	mg/kg	382	374	2.1	0-20%
Chloride	GP46177/GN87677	TD16243-11	mg/kg	662	660	0.3	0-20%
Chloride	GP46178/GN87677	TD16243-21	mg/kg	4.4	4.7	6.6	0-20%
Solids, Percent	GN87713	TD16243-1	%	93.5	93.5	0.0	0-5%
Solids, Percent	GN87714	TD16243-10	%	91.9	91.9	0.0	0-5%

Associated Samples:
Batch GN87713: TD16243-1, TD16243-2, TD16243-3, TD16243-4, TD16243-5, TD16243-6, TD16243-7, TD16243-8, TD16243-9
Batch GN87714: TD16243-10, TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20, TD16243-21, TD16243-22, TD16243-23
Batch GP46176: TD16243-1, TD16243-2, TD16243-3, TD16243-4, TD16243-5, TD16243-6, TD16243-7, TD16243-8, TD16243-9, TD16243-10
Batch GP46177: TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20
Batch GP46178: TD16243-21, TD16243-22, TD16243-23
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16243
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP46176/GN87677	TD16243-1	mg/kg	382	104	713	316.9N(a)	80-120%
Chloride	GP46177/GN87677	TD16243-11	mg/kg	662	111	829	150.8(b)	80-120%
Chloride	GP46178/GN87677	TD16243-21	mg/kg	4.4	101	99.7	94.7	80-120%

Associated Samples:
Batch GP46176: TD16243-1, TD16243-2, TD16243-3, TD16243-4, TD16243-5, TD16243-6, TD16243-7, TD16243-8, TD16243-9, TD16243-10
Batch GP46177: TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20
Batch GP46178: TD16243-21, TD16243-22, TD16243-23
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Outside control limits due to matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Misc. Forms

Custody Documents and Other Forms

(SGS Orlando, FL)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS

10165 Harwin Drive, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: TD16243

Client / Reporting Information

Company Name: SGS North America In.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: Trameshia.Brown@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BB015DROORO1 V8015GRO	LAB USE ONLY
1	B1@5' (SOIL BORING)		2/5/18	11:24:00 AM		SO	2					x		x		X	
2	B1@10' (SOIL BORING)		2/5/18	11:26:00 AM		SO	2					x		x		X	
3	B1@20' (SOIL BORING)		2/5/18	11:29:00 AM		SO	2					x		x		X	
4	B2@5' (SOIL BORING)		2/5/18	12:05:00 PM		SO	2					x		x		X	
5	B2@10' (SOIL BORING)		2/5/18	12:10:00 PM		SO	2					x		x		X	
6	B2@20' (SOIL BORING)		2/5/18	12:15:00 PM		SO	2					x		x		X	
7	B3@5' (SOIL BORING)		2/5/18	12:42:00 PM		SO	2					x		x		X	
8	B3@10' (SOIL BORING)		2/5/18	12:44:00 PM		SO	2					x		x		X	
9	B3@20' (SOIL BORING)		2/5/18	12:50:00 PM		SO	2					x		x		X	
10	B4@5' (SOIL BORING)		2/5/18	1:24:00 PM		SO	2					x		x		X	
11	B4@10' (SOIL BORING)		2/5/18	1:25:00 PM		SO	2					x		x		X	
12	B4@20' (SOIL BORING)		2/5/18	1:31:00 PM		SO	2					x		x		X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY 2/19/18
- [ ] 1 Day EMERGENCY
- [X] other Due ~~2/14/2018~~ VB

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sub out the 4oz and vial and keep the 2oz here for CHL.

FL

Sample Custody must be documented below each time samples change possession, including courier delivery.

1 Relinquished by Sampler:	Date Time: 2/7/18 1600	1 Received By:	2 Relinquished By:	Date Time:	2 Received By: 02/08/18 930
3 Relinquished by Sampler:	Date Time:	3 Received By:	4 Relinquished By:	Date Time:	4 Received By:
5 Relinquished by:	Date Time:	5 Received By:	Custody Seal # ☐ Intact ☐ Not Intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 4.0

CHAIN OF CUSTODY

SGS

10165 Harwin Drive, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16243

Client / Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: Trameshia.Brown@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1_V8015GRO_	LAB USE ONLY
13	BG-1 (BACKGROUND)		2/5/18	7:25:00 AM		SO	2					x		x		X	
14	BG-2 (BACKGROUND)		2/5/18	7:28:00 AM		SO	2					x		x		X	
15	BG-3 (BACKGROUND)		2/5/18	7:31:00 AM		SO	2					x		x		X	
16	BG-4 (BACKGROUND)		2/5/18	7:35:00 AM		SO	2					x		x		X	
17	BG-5 (BACKGROUND)		2/5/18	7:39:00 AM		SO	2					x		x		X	
18	BG-6 (BACKGROUND)		2/5/18	7:43:00 AM		SO	2					x		x		X	
19	BG-7 (BACKGROUND)		2/5/18	8:05:00 AM		SO	2					x		x		X	
20	BG-8 (BACKGROUND)		2/5/18	8:09:00 AM		SO	2					x		x		X	
21	BG-9 (BACKGROUND)		2/5/18	8:13:00 AM		SO	2					x		x		X	
22	BG-10 (BACKGROUND)		2/5/18	8:17:00 AM		SO	2					x		x		X	
23	DUP-01		2/5/18	12:00:00 AM		SO	2					x		x		X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY 2/19/18
- [ ] 1 Day EMERGENCY
- [X] other ~~Due 2/14/2018~~ TS

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sub out the 4oz and vial and keep the 2oz here for CHL.

FL

930

(1) Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	2/9/18 1610	1	2		2 02/08/18
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable	On Ice	Cooler Temp.
5		5					

SGS Sample Receipt Summary

Job Number: TD16243 **Client:** ALGC **Project:** CJES STATE AB SWD

Date / Time Received: 2/8/2018 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891751060003281100731444464765

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☑		☐	☐
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: 23 Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 2/8/2018 9:30:00 AM Reviewer: P.H Date: 2/8/2018

GC Volatiles

QC Data Summaries

(SGS Orlando, FL)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD6225-MB	CD149132.D	1	02/16/18	JG	n/a	n/a	GCD6225

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-1, TD16243-2, TD16243-3, TD16243-4, TD16243-5, TD16243-6, TD16243-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	84%	56-149%
98-08-8	aaa-Trifluorotoluene	72%	66-132%

Method Blank Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD6226-MB	CD149165.D	1	02/17/18	JG	n/a	n/a	GCD6226

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-8, TD16243-9, TD16243-10, TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20, TD16243-21, TD16243-22, TD16243-23

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	78%	56-149%
98-08-8	aaa-Trifluorotoluene	70%	66-132%

Blank Spike Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD6225-BS	CD149131.D	1	02/16/18	JG	n/a	n/a	GCD6225

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-1, TD16243-2, TD16243-3, TD16243-4, TD16243-5, TD16243-6, TD16243-7

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	22.6	113	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	94%	56-149%
98-08-8	aaa-Trifluorotoluene	99%	66-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD6226-BS	CD149164.D	1	02/17/18	JG	n/a	n/a	GCD6226

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-8, TD16243-9, TD16243-10, TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20, TD16243-21, TD16243-22, TD16243-23

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	19.8	99	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	90%	56-149%
98-08-8	aaa-Trifluorotoluene	92%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA51677-1MS	CD149134.D	1	02/16/18	JG	n/a	n/a	GCD6225
FA51677-1MSD	CD149135.D	1	02/16/18	JG	n/a	n/a	GCD6225
FA51677-1	CD149133.D	1	02/16/18	JG	n/a	n/a	GCD6225

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-1, TD16243-2, TD16243-3, TD16243-4, TD16243-5, TD16243-6, TD16243-7

CAS No.	Compound	FA51677-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	67.5		51.1	99.2	62*	51.1	110	83	10	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA51677-1	Limits
460-00-4	4-Bromofluorobenzene	131%	137%	141%	56-149%
98-08-8	aaa-Trifluorotoluene	116%	120%	106%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16243-23MS	CD149182.D	1	02/17/18	JG	n/a	n/a	GCD6226
TD16243-23MSD	CD149183.D	1	02/17/18	JG	n/a	n/a	GCD6226
TD16243-23	CD149181.D	1	02/17/18	JG	n/a	n/a	GCD6226

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-8, TD16243-9, TD16243-10, TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20, TD16243-21, TD16243-22, TD16243-23

CAS No.	Compound	TD16243-23 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		20.3	18.8	93	20.3	18.9	93	1	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	TD16243-23	Limits
460-00-4	4-Bromofluorobenzene	91%	88%	80%	56-149%
98-08-8	aaa-Trifluorotoluene	89%	89%	73%	66-132%

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

(SGS Orlando, FL)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68788-MB	WW14790.D	1	02/15/18	SJL	02/15/18	OP68788	GWW596

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-1, TD16243-2, TD16243-3, TD16243-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.0	2.5	mg/kg	
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	82%	56-122%

Method Blank Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68811-MB	WW14801.D	1	02/19/18	SJL	02/19/18	OP68811	GWW597

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-6, TD16243-7, TD16243-8, TD16243-9, TD16243-10, TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20, TD16243-21, TD16243-22, TD16243-23

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.0	2.5	mg/kg	
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	75%	56-122%

Method Blank Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68867-MB	WW14867.D	1	02/22/18	SJL	02/22/18	OP68867	GWW600

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.0	2.5	mg/kg	
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	88%	56-122%

Blank Spike Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68788-BS [a]	WW14789.D	1	02/15/18	SJL	02/15/18	OP68788	GWW596

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-1, TD16243-2, TD16243-3, TD16243-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	50	41.3	83	65-116
	TPH (> C22-C36)	50	49.8	100	51-148

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	98%	56-122%

(a) Insufficient sample for MS/MSD.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68811-BS	WW14800.D	1	02/19/18	SJL	02/19/18	OP68811	GWW597

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-6, TD16243-7, TD16243-8, TD16243-9, TD16243-10, TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20, TD16243-21, TD16243-22, TD16243-23

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	50	39.1	78	65-116
	TPH (> C22-C36)	50	49.6	99	51-148

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	80%	56-122%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68867-BS	WW14866.D	1	02/22/18	SJL	02/22/18	OP68867	GWW600

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	50	42.7	85	65-116
	TPH (> C22-C36)	50	52.5	105	51-148

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	100%	56-122%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16243
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP68811-MS	WW14806.D	1	02/19/18	SJL	02/19/18	OP68811	GWW597
OP68811-MSD	WW14807.D	1	02/19/18	SJL	02/19/18	OP68811	GWW597
TD16243-8	WW14831.D	1	02/20/18	SJL	02/19/18	OP68811	GWW597

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16243-6, TD16243-7, TD16243-8, TD16243-9, TD16243-10, TD16243-11, TD16243-12, TD16243-13, TD16243-14, TD16243-15, TD16243-16, TD16243-17, TD16243-18, TD16243-19, TD16243-20, TD16243-21, TD16243-22, TD16243-23

CAS No.	Compound	TD16243-8 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	2.77	J	52.3	39.6	70	53.4	38.9	68	2	65-116/28
	TPH (> C22-C36)	10.6		52.3	55.3	85	53.4	55.7	85	1	51-148/28

CAS No.	Surrogate Recoveries	MS	MSD	TD16243-8	Limits
84-15-1	o-Terphenyl	71%	71%	66%	56-122%

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EnTech Consulting Corporation

CJES State AB SWD #1/LEA Co,N Mex

SGS Job Number: TD16424

Sampling Date: 02/07/18

Report to:

EnTech Consulting Corporation
21 Waterway Ave, Suite 300
The Woodlands, TX 77380
chan.patel@entechservice.com; pete.schram@entechservice.com

ATTN: Chan Patel

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Richard Rodriguez
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-18-28) AR (14-016-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) NJ (TX010) OK (2017-002) VA (8999)

Sections: 1 2 3 4 5 6 7 8

Table of Contents

SGS North America Inc.

Sample Summary

EnTech Consulting Corporation

Job No: TD16424

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16424-1	02/07/18	15:00		02/09/18	SO	Soil	BUC-1@6
TD16424-2	02/07/18	15:20		02/09/18	SO	Soil	BUC-1@8
TD16424-2A	02/07/18	15:20		02/09/18	SO	Soil	BUC-1@8
TD16424-3	02/07/18	15:20		02/09/18	SO	Soil	BUC-2@6
TD16424-4	02/07/18	15:20		02/09/18	SO	Soil	BUC-2@12
TD16424-5	02/07/18	15:45		02/09/18	SO	Soil	BUC-3@6
TD16424-6	02/07/18	15:45		02/09/18	SO	Soil	BUC-3@10
TD16424-7	02/07/18	10:08		02/09/18	SO	Soil	BUC-4@6
TD16424-8	02/07/18	16:08		02/09/18	SO	Soil	BUC-4@9
TD16424-9	02/07/18	16:15		02/09/18	SO	Soil	BUC-5@6
TD16424-9A	02/07/18	16:15		02/09/18	SO	Soil	BUC-5@6
TD16424-9R	02/07/18	16:15		02/09/18	SO	Soil	BUC-5@6
TD16424-10	02/07/18	16:15		02/09/18	SO	Soil	BUC-5@12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16424

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
TD16424-10A	02/07/18	16:15		02/09/18	SO	Soil	BUC-5@12
TD16424-10R	02/07/18	16:15		02/09/18	SO	Soil	BUC-5@12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: TD16424
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16424-2A	**BUC-1@8**					
Chloride		1530	51		mg/kg	EPA 300.0
TD16424-9A	**BUC-5@6**					
Chloride		18.5	5.4		mg/kg	EPA 300.0
TD16424-9R	**BUC-5@6**					
TPH-GRO (C6-C10) [a]		10.5	5.9	5.8	mg/kg	SW846 8015C
TPH (C10-C22) [a]		9.31	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		42.1	5.4	2.7	mg/kg	SW846 8015C
TD16424-10A	**BUC-5@12**					
Chloride		20.1	5.4		mg/kg	EPA 300.0
TD16424-10R	**BUC-5@12**					
TPH (C10-C22) [a]		7.56	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		16.6	5.4	2.7	mg/kg	SW846 8015C

(a) Analysis performed at SGS Scott, LA.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BUC-1@8		
Lab Sample ID:	TD16424-2A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	96.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1530	51	mg/kg	10	03/03/18 15:29	LR	EPA 300.0
Solids, Percent	96.7		%	1	02/28/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-5@6		
Lab Sample ID:	TD16424-9A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	91.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	18.5	5.4	mg/kg	1	03/06/18 15:59	LR	EPA 300.0

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-5@6		
Lab Sample ID:	TD16424-9R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	91.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286700.D	1	02/21/18 06:13	ALA	n/a	n/a	L:GLA1697
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.5	5.9	5.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-5@6		
Lab Sample ID:	TD16424-9R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005079.D	1	02/22/18 17:45	ALA	02/21/18 12:00	L:OP10558	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	9.31	5.4	2.7	mg/kg	
	TPH (> C22-C36)	42.1	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-5@12		
Lab Sample ID:	TD16424-10A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	91.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	20.1	5.4	mg/kg	1	03/03/18 15:45	LR	EPA 300.0

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-5@12		
Lab Sample ID:	TD16424-10R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	91.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286702.D	1	02/21/18 06:36	ALA	n/a	n/a	L:GLA1697
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.0	5.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	94%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-5@12		
Lab Sample ID:	TD16424-10R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005080.D	1	02/22/18 18:06	ALA	02/21/18 12:00	L:OP10558	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	7.56	5.4	2.7	mg/kg	
	TPH (> C22-C36)	16.6	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		31-130%

(a) Analysis performed at SGS Scott, LA.

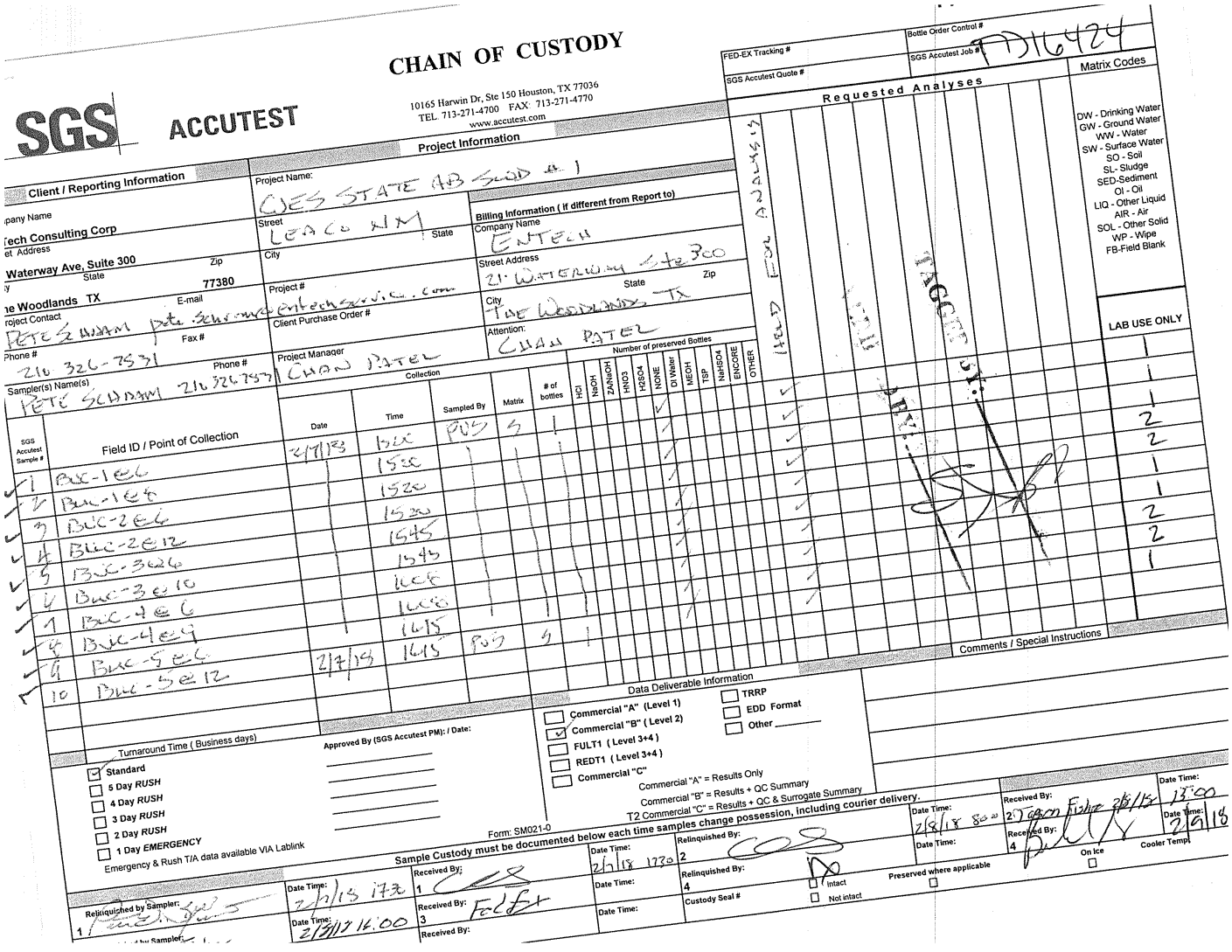
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS ACCUTEST

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL 713-271-4700 FAX 713-271-4770
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # TD16424

Client / Reporting Information
Company Name: Tech Consulting Corp
Street Address: 21 Waterway Ave, Suite 300
City: The Woodlands State: TX Zip: 77380
Project Contact: Pete Schwam E-mail: pete.schwam@entechservices.com
Phone #: 210 326-7537 Fax #:
Sampler(s) Name(s): Pete Schwam Phone #: 210 326-7537

Project Information
Project Name: CES State AB Sand #1
Street: Lea Co. NM State:
City:
Project #:
Client Purchase Order #:
Project Manager: Chan Pate

Billing Information (if different from Report to)
Company Name: Entech
Street Address: 21 Waterway Ste 300
City: The Woodlands State: TX Zip:
Attention: Chan Pate

Requested Analyses
Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles	LAB USE ONLY
1	BLC-1@6	2/7/18	1520	PJS	S	1		1
2	BLC-1@8		1520					1
3	BLC-2@6		1530					2
4	BLC-2@12		1545					2
5	BLC-3@6		1545					1
6	BLC-3@10		1600					1
7	BLC-4@6		1600					2
8	BLC-4@4		1615					2
9	BLC-5@6	2/7/18	1615	PJS	S	1		1
10	BLC-5@12							

Comments / Special Instructions

Turnaround Time (Business days)
- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

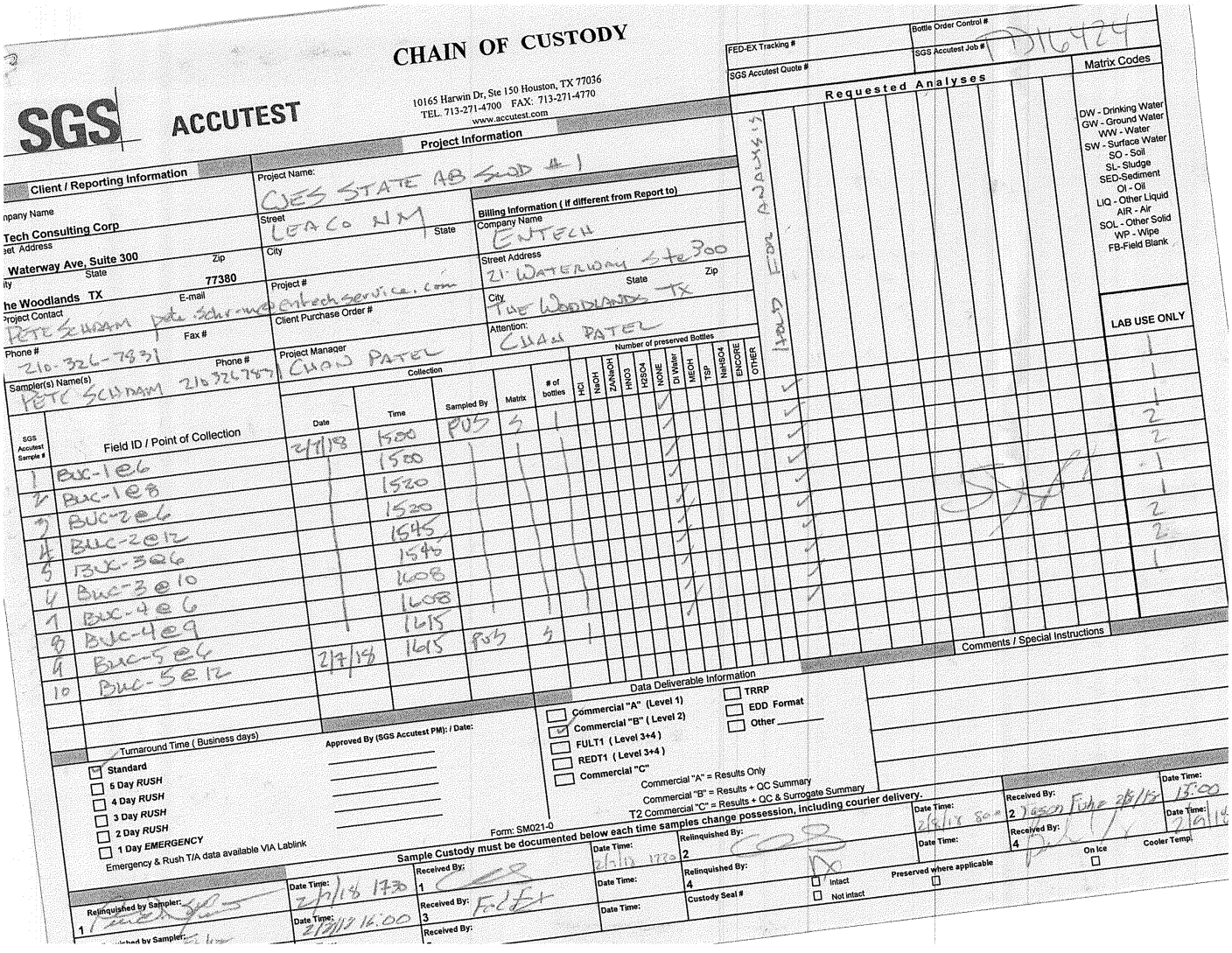
Sample Custody must be documented below each time samples change possession, including courier delivery.

Form: SM021-0

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Date Time:
1	2/7/18 1730	1	2	2/8/18 1730	2	2/8/18 800
3	2/7/18 16:00	3	4		4	

Custody Seal # Intact Not intact Preserved where applicable On Ice Cooler Temp

Received By: 2 Date Time: 2/9/18 13:00
Received By: 4 Date Time: 2/9/18



CHAIN OF CUSTODY

SGS ACCUTEST

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # TD16424

Client / Reporting Information
Company Name: Tech Consulting Corp
Street Address: Waterway Ave, Suite 300
City: The Woodlands
State: TX
Zip: 77380
Project Contact: PETE SCHNAM
E-mail: pete.schnam@entechservice.com
Phone #: 210-326-7931
Fax #
Sampler(s) Name(s): PETE SCHNAM
Phone #: 210 326 7931

Project Information
Project Name: CES STATE AB SWD #1
Street: LEA Co NM
State
City
Project #
Client Purchase Order #
Project Manager: CHAN PATEL

Billing Information (if different from Report to)
Company Name: ENTECH
Street Address: 21 WATERWAY Ste 300
City: THE WOODLANDS
State: TX
Zip
Attention: CHAN PATEL

Requested Analyses
HOLD FOR ANALYSIS

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
1	BUC-1@6	2/7/13	1500	PUS	S	1							X						1
2	BUC-1@8		1520										X						1
3	BUC-2@6		1520										X						2
4	BUC-2@12		1545										X						2
5	BUC-3@6		1545										X						1
6	BUC-3@10		1608										X						1
7	BUC-4@6		1608										X						2
8	BUC-4@9		1615										X						2
9	BUC-5@6	2/7/13	1615	PUS	S	1							X						1
10	BUC-5@12																		

Comments / Special Instructions

Turnaround Time (Business days)
- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY
- [ ] Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
Relinquished by Sampler: 1	2/7/13 1730	1	2/8/13 1730	2	2/8/13 8a.m.	2 Jason Fuhr	2/8/13 13:00
	2/7/13 16:00	3		4		4	2/8/13

Custody Seal # | Intact | Not intact | Preserved where applicable | On Ice | Cooler Temp

SGS ACCUTEST

COOLER TEMP FORM

TC# TD16424

Delivered by (circle one): (FedEx)/UPS ALGC Driver Client

Date: 2/9/18

Client: Entech

Cooler Number: 1

Thermometer ID: IR9 CF, °C 0 Corrected Temp, °C 3.6

SAMPLES CONTAINED IN COOLER

ORIGIN ID:SGRA (432) 234-3079
JASON FISHER
SGS-ACCUTEST
3600 S. COUNTRY ROAD

MIDLAND, TX 79706
UNITED STATES US

SHIP DATE: 05JAN18
ACTWGT: 25.0 LB MAN
CAD: 0243296/CAFE2916

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST
10165 HARWIN DRIVE
SUITE 150
HOUSTON TX 77036
(713) 271-4700 REF:
INV:
PO: DEPT:

FedEx Express E

FRI – 09 FEB 10:30A
PRIORITY OVERNIGHT

FedEx
TRK# 0221 7314 4445 7877

77036
TX-US IAH

AB SGRA

SGS

Customer

DATE 2/9

SIGNATURE

1 10:30 A 7877 02.09

Entech
2/1/18 JP

pH LOT# 10D4561

Form: SM027-06 Rev 10/24/2016

4.1
4

TD16424: Chain of Custody
Page 4 of 4

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16424
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP46558/GN88230	5.0	0.0	mg/kg	100	96.5	96.5	90-110%
Chloride	GP46536/GN88202	5.0	0.0	mg/kg	100	94.6	94.6	90-110%
Chloride	GP46558/GN88230	5.0	0.0	mg/kg	100	94.2	94.2	90-110%
Fluoride	GP46558/GN88230	5.0	0.0	mg/kg	100	101	101.0	90-110%
Nitrogen, Nitrate	GP46558/GN88230	5.0	0.0	mg/kg	100	92.4	92.4	90-110%
Nitrogen, Nitrite	GP46558/GN88230	5.0	0.0	mg/kg	100	99.6	99.6	90-110%
Sulfate	GP46558/GN88230	5.0	0.0	mg/kg	100	103	103.0	90-110%

Associated Samples:
Batch GP46536: TD16424-2A, TD16424-10A
Batch GP46558: TD16424-9A
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16424
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP46536/GN88202	TD16424-10A	mg/kg	20.1	20.6	2.5	0-20%
Chloride	GP46558/GN88230	TD16424-9A	mg/kg	18.5	17.6	5.0	0-20%
Solids, Percent	GN87931	TD16995-1	%	61.5	61.6	0.2	0-5%
Solids, Percent	GN88106	TD17272-1	%	79.6	79.3	0.4	0-5%

Associated Samples:
Batch GN87931: TD16424-9R, TD16424-10R
Batch GN88106: TD16424-2A
Batch GP46536: TD16424-2A, TD16424-10A
Batch GP46558: TD16424-9A
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16424
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP46536/GN88202	TD16424-10A	mg/kg	20.1	108	122	94.0	80-120%
Chloride	GP46558/GN88230	TD16424-9A	mg/kg	18.5	109	113	86.8	80-120%

Associated Samples:
Batch GP46536: TD16424-2A, TD16424-10A
Batch GP46558: TD16424-9A
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Scott, LA)

Includes the following where applicable:

- Chain of Custody

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.sgs.com

FED-EX Tracking #: | Bottle Order Control #: | SGS Quote #: | SGS Job #: TD16424

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact / E-mail: Trameshia.Brown@sgs.com
Phone #: 713-271-4700
Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

	SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	HOLD	LAB USE ONLY
1	1	BUC-1@6		2/7/18	3:00:00 PM		SO	1					x				X	
2	2	BUC-1@8		2/7/18	3:20:00 PM		SO	1					x				X	
3	3	BUC-2@6		2/7/18	3:20:00 PM		SO	1					x				X	
4	4	BUC-2@12		2/7/18	3:20:00 PM		SO	1					x				X	
5	5	BUC-3@6		2/7/18	3:45:00 PM		SO	1					x				X	
6	6	BUC-3@10		2/7/18	3:45:00 PM		SO	1					x				X	
7	7	BUC-4@6		2/7/18	10:08:00 AM		SO	1					x				X	
8	8	BUC-4@9		2/7/18	4:08:00 PM		SO	1					x				X	
9	9	BUC-5@6		2/7/18	4:15:00 PM		SO	1					x				X	
10	10	BUC-5@12		2/7/18	4:15:00 PM		SO	1					x				X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/16/2018

Approved By (SGS PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Split off into an 2oz LA

7B3 (RMM4)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 S. Parng	Date Time: 1800 2-12-18	Received By: 1 SGS	Relinquished By: 2 SGS	Date Time:	Received By: 2 [signature]
Relinquished by Sampler: 3 [signature]	Date Time: 2/12/18 2:30	Received By: 3 Walter Newton 2/13/18 0815	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # C5106	Intact ☑ Not intact ☐ Preserved where applicable ☑	On Ice ☑ Cooler Temp. 2.0, 1.8 dv 441

6.1

6

TD16424: Chain of Custody
Page 1 of 3
SGS Scott, LA

SGS Sample Receipt Summary

Job Number: TD16424 **Client:** SGS NORTH AMERICA **Project:** CJES STATE AB SWD#1/LEA

Date / Time Received: 2/13/2018 8:15:00 AM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); #2: (1.8/1.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	DV441;		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Job Change Order: TD16424

Requested Date:	2/20/2018	**Received Date:**	2/9/2018
Account Name:	EnTech Consulting Corporation	**Due Date:**	2/26/2018
Project Description:	CJES State AB SWD #1/LEA Co,N Mex	**Deliverable:**	COMMB
CSR:	SylviaG	**TAT (Days):**	6

==========

Sample #: TD16424-9R, 10R

Dept:

TAT: 6

Change:
Login V8015GRO, B8015DROORO1

==========

Above Changes Per: Client

Date/Time: 2/20/2018 2:37:45 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

6.1

6

TD16424: Chain of Custody
Page 3 of 3

GC Volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1697-MB1	LA286698.D	1	02/21/18	SV	n/a	n/a	GLA1697

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	109%	63-139%
540-36-3	1,4-Difluorobenzene	101%	52-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1697-BS1	LA286694.D	1	02/21/18	SV	n/a	n/a	GLA1697
GLA1697-BSD1	LA286696.D	1	02/21/18	SV	n/a	n/a	GLA1697

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	48.6	97	48.5	97	0	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	109%	107%	63-139%
540-36-3	1,4-Difluorobenzene	110%	109%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
LA41435-1AMS	LA286728.D	1	02/21/18	SV	n/a	n/a	GLA1697
LA41435-1AMSD	LA286730.D	1	02/21/18	SV	n/a	n/a	GLA1697
LA41435-1A	LA286716.D	1	02/21/18	SV	n/a	n/a	GLA1697

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	LA41435-1A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	1690		982	3090	143*	982	3360	170*	8*	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	LA41435-1A	Limits
460-00-4	4-Bromofluorobenzene	114%	132%	122%	63-139%
540-36-3	1,4-Difluorobenzene	104%	103%	101%	52-140%

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-MB	S0005074.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.83	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	82%	31-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-BS1	S0005075.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-BSD1	S0005076.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	75.4	63	122	102	47*	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	51%	80%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-BS2	S0005077.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-BSD2	S0005078.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	120	80	121	81	1	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	77%	81%	31-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-MS1	S0005092.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-MSD1	S0005093.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
TD16424-9R	S0005079.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	TD16424-9R mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	9.31		129	131	94	130	142	102	8	57-119/30

CAS No.	Surrogate Recoveries	MS	MSD	TD16424-9R	Limits
84-15-1	o-Terphenyl	83%	82%	87%	31-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16424
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-MS2	S0005094.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-MSD2	S0005095.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
TD16424-9R	S0005079.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16424-9R, TD16424-10R

CAS No.	Compound	TD16424-9R mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	42.1		164	153	68	163	162	74	6	55-117/25

CAS No.	Surrogate Recoveries	MS	MSD	TD16424-9R	Limits
84-15-1	o-Terphenyl	81%	79%	87%	31-130%

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EnTech Consulting Corporation

CJES State AB SWD #1/LEA Co,N Mex

SGS Job Number: TD16439

Sampling Date: 02/07/18

Report to:

EnTech Consulting Corporation
21 Waterway Ave, Suite 300
The Woodlands, TX 77380
chan.patel@entechservice.com; pete.schram@entechservice.com

ATTN: Chan Patel

Total number of pages in report: 220

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Richard Rodriguez
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-18-28) AR (14-016-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) NJ (TX010) OK (2017-002) VA (8999)

Table of Contents

Table of Contents

Table of Contents

Sample Summary

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-1	02/07/18	10:55		02/09/18	SO	Soil	D-1 @ 6"
TD16439-1A	02/07/18	10:55		02/09/18	SO	Soil	D-1 @ 6"
TD16439-2	02/07/18	10:55		02/09/18	SO	Soil	D-1 @ 18"
TD16439-2A	02/07/18	10:55		02/09/18	SO	Soil	D-1 @ 18"
TD16439-3	02/07/18	11:17		02/09/18	SO	Soil	D2 @ 6"
TD16439-3A	02/07/18	11:17		02/09/18	SO	Soil	D2 @ 6"
TD16439-4	02/07/18	11:17		02/09/18	SO	Soil	D2 @ 24
TD16439-4A	02/07/18	11:17		02/09/18	SO	Soil	D2 @ 24
TD16439-5	02/07/18	11:40		02/09/18	SO	Soil	D3 @ 6
TD16439-5A	02/07/18	11:40		02/09/18	SO	Soil	D3 @ 6
TD16439-6	02/07/18	11:40		02/09/18	SO	Soil	D3 @ 12
TD16439-6A	02/07/18	11:40		02/09/18	SO	Soil	D3 @ 12
TD16439-7	02/07/18	11:40		02/09/18	SO	Soil	D3 @ 28

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-7A	02/07/18	11:40		02/09/18	SO	Soil	D3 @ 28
TD16439-7B	02/07/18	11:40		02/09/18	SO	Soil	D3 @ 28
TD16439-8	02/07/18	12:05		02/09/18	SO	Soil	D4 @ 6
TD16439-8A	02/07/18	12:05		02/09/18	SO	Soil	D4 @ 6
TD16439-9	02/07/18	12:05		02/09/18	SO	Soil	D4 @ 12
TD16439-9A	02/07/18	12:05		02/09/18	SO	Soil	D4 @ 12
TD16439-10	02/07/18	12:05		02/09/18	SO	Soil	D4 @ 28
TD16439-10A	02/07/18	12:05		02/09/18	SO	Soil	D4 @ 28
TD16439-10B	02/07/18	12:05		02/09/18	SO	Soil	D4 @ 28
TD16439-11	02/07/18	12:17		02/09/18	SO	Soil	D5 @ 6
TD16439-11A	02/07/18	12:17		02/09/18	SO	Soil	D5 @ 6
TD16439-12	02/07/18	12:17		02/09/18	SO	Soil	D5 @ 12
TD16439-12A	02/07/18	12:17		02/09/18	SO	Soil	D5 @ 12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-13	02/07/18	12:17		02/09/18	SO	Soil	D5 @ 28
TD16439-13B	02/07/18	12:17		02/09/18	SO	Soil	D5 @ 28
TD16439-13R	02/07/18	12:17		02/09/18	SO	Soil	D5 @ 28
TD16439-14	02/07/18	12:30		02/09/18	SO	Soil	D6 @ 6
TD16439-14A	02/07/18	12:30		02/09/18	SO	Soil	D6 @ 6
TD16439-15	02/07/18	12:30		02/09/18	SO	Soil	D6 @ 9
TD16439-15A	02/07/18	12:30		02/09/18	SO	Soil	D6 @ 9
TD16439-16	02/07/18	12:53		02/09/18	SO	Soil	D7 @ 6
TD16439-16A	02/07/18	12:53		02/09/18	SO	Soil	D7 @ 6
TD16439-17	02/07/18	12:53		02/09/18	SO	Soil	D7 @ 10
TD16439-17A	02/07/18	12:53		02/09/18	SO	Soil	D7 @ 10
TD16439-18	02/07/18	13:06		02/09/18	SO	Soil	D8 @ 6
TD16439-18A	02/07/18	13:06		02/09/18	SO	Soil	D8 @ 6

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-19	02/07/18	13:06		02/09/18	SO	Soil	D8 @ 12
TD16439-19A	02/07/18	13:06		02/09/18	SO	Soil	D8 @ 12
TD16439-20	02/07/18	13:06		02/09/18	SO	Soil	D8 @ 24
TD16439-20A	02/07/18	13:06		02/09/18	SO	Soil	D8 @ 24
TD16439-20B	02/07/18	13:06		02/09/18	SO	Soil	D8 @ 24
TD16439-21	02/07/18	15:08		02/09/18	SO	Soil	D9 @ 6
TD16439-21A	02/07/18	15:08		02/09/18	SO	Soil	D9 @ 6
TD16439-22	02/07/18	15:08		02/09/18	SO	Soil	D9 @ 10
TD16439-22A	02/07/18	15:08		02/09/18	SO	Soil	D9 @ 10
TD16439-23	02/07/18	15:32		02/09/18	SO	Soil	D10 @ 6
TD16439-23A	02/07/18	15:32		02/09/18	SO	Soil	D10 @ 6
TD16439-24	02/07/18	15:32		02/09/18	SO	Soil	D10 @ 9
TD16439-24A	02/07/18	15:32		02/09/18	SO	Soil	D10 @ 9

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-25	02/07/18	16:00		02/09/18	SO	Soil	D11 @ 6
TD16439-25A	02/07/18	16:00		02/09/18	SO	Soil	D11 @ 6
TD16439-26	02/07/18	16:00		02/09/18	SO	Soil	D11 @ 9
TD16439-26A	02/07/18	16:00		02/09/18	SO	Soil	D11 @ 9
TD16439-27	02/07/18	16:24		02/09/18	SO	Soil	D12 @ 6
TD16439-27A	02/07/18	16:24		02/09/18	SO	Soil	D12 @ 6
TD16439-28	02/07/18	16:24		02/09/18	SO	Soil	D12 @ 9
TD16439-28A	02/07/18	16:24		02/09/18	SO	Soil	D12 @ 9
TD16439-29	02/07/18	16:30		02/09/18	SO	Soil	D13 @ 6
TD16439-29A	02/07/18	16:30		02/09/18	SO	Soil	D13 @ 6
TD16439-30	02/07/18	16:30		02/09/18	SO	Soil	D13 @ 8
TD16439-30A	02/07/18	16:30		02/09/18	SO	Soil	D13 @ 8
TD16439-31	02/07/18	16:30		02/09/18	SO	Soil	D13 @ 20

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-31A	02/07/18	16:30		02/09/18	SO	Soil	D13 @ 20
TD16439-31B	02/07/18	16:30		02/09/18	SO	Soil	D13 @ 20
TD16439-32	02/07/18	14:43		02/09/18	SO	Soil	D14 @ 6
TD16439-32A	02/07/18	14:43		02/09/18	SO	Soil	D14 @ 6
TD16439-33	02/07/18	14:43		02/09/18	SO	Soil	D14 @ 9
TD16439-33A	02/07/18	14:43		02/09/18	SO	Soil	D14 @ 9
TD16439-34	02/07/18	14:52		02/09/18	SO	Soil	D15 @ 6
TD16439-34A	02/07/18	14:52		02/09/18	SO	Soil	D15 @ 6
TD16439-35	02/07/18	14:52		02/09/18	SO	Soil	D15 @ 20
TD16439-35A	02/07/18	14:52		02/09/18	SO	Soil	D15 @ 20
TD16439-36	02/07/18	17:02		02/09/18	SO	Soil	D16 @ 6
TD16439-36A	02/07/18	17:02		02/09/18	SO	Soil	D16 @ 6
TD16439-37	02/07/18	17:02		02/09/18	SO	Soil	D16 @ 9

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-37A	02/07/18	17:02		02/09/18	SO	Soil	D16 @ 9
TD16439-38	02/07/18	10:30		02/09/18	SO	Soil	CD-1 @ 18
TD16439-38A	02/07/18	10:30		02/09/18	SO	Soil	CD-1 @ 18
TD16439-39	02/07/18	10:30		02/09/18	SO	Soil	CD-1 @ 30
TD16439-39R	02/07/18	10:30		02/09/18	SO	Soil	CD-1 @ 30
TD16439-40	02/07/18	14:40		02/09/18	SO	Soil	CD-2 @ 6
TD16439-40A	02/07/18	14:40		02/09/18	SO	Soil	CD-2 @ 6
TD16439-41	02/07/18	14:40		02/09/18	SO	Soil	CD-2 @ 12
TD16439-41A	02/07/18	14:40		02/09/18	SO	Soil	CD-2 @ 12
TD16439-42	02/07/18	14:40		02/09/18	SO	Soil	CD-2 @ 30
TD16439-42A	02/07/18	14:40		02/09/18	SO	Soil	CD-2 @ 30
TD16439-42B	02/07/18	14:40		02/09/18	SO	Soil	CD-2 @ 30
TD16439-43	02/07/18	17:10		02/09/18	SO	Soil	CD-3 @ 4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16439

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16439-43A	02/07/18	17:10		02/09/18	SO	Soil	CD-3 @ 4
TD16439-44	02/07/18	17:10		02/09/18	SO	Soil	CD-3 @ 7
TD16439-44A	02/07/18	17:10		02/09/18	SO	Soil	CD-3 @ 7
TD16439-45	02/07/18	00:00		02/09/18	SO	Soil	DUP-2
TD16439-45A	02/07/18	00:00		02/09/18	SO	Soil	DUP-2
TD16439-46	02/07/18	00:00		02/09/18	SO	Soil	DUP-3
TD16439-46A	02/07/18	00:00		02/09/18	SO	Soil	DUP-3
TD16439-47	02/07/18	00:00		02/09/18	SO	Soil	DUP-4
TD16439-47A	02/07/18	00:00		02/09/18	SO	Soil	DUP-4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-1	**D-1 @ 6"**					
Chloride		5120	570		mg/kg	EPA 300.0
TD16439-1A	**D-1 @ 6"**					
TPH (C10-C22) [a]		15.8	5.6	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		54.9	5.6	2.8	mg/kg	SW846 8015C
TD16439-2	**D-1 @ 18"**					
Chloride		4410	270		mg/kg	EPA 300.0
TD16439-2A	**D-1 @ 18"**					
TPH (C10-C22) [a]		5.18 J	5.5	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		10.5	5.5	2.7	mg/kg	SW846 8015C
TD16439-3	**D2 @ 6"**					
Chloride		1360	54		mg/kg	EPA 300.0
TD16439-3A	**D2 @ 6"**					
TPH (C10-C22) [a]		4.85 J	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		16.9	5.4	2.7	mg/kg	SW846 8015C
TD16439-4	**D2 @ 24**					
Chloride		1510	57		mg/kg	EPA 300.0
TD16439-4A	**D2 @ 24**					
No hits reported in this sample.						
TD16439-5	**D3 @ 6**					
Chloride		979	53		mg/kg	EPA 300.0
TD16439-5A	**D3 @ 6**					
TPH (C10-C22) [a]		13.6	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		66.8	5.3	2.6	mg/kg	SW846 8015C

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-6	**D3 @ 12**					
Chloride		1090	54		mg/kg	EPA 300.0
TD16439-6A	**D3 @ 12**					
TPH (C10-C22) [a]		6.64	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		32.8	5.4	2.7	mg/kg	SW846 8015C
TD16439-7B	**D3 @ 28**					
Chloride		749	27		mg/kg	EPA 300.0
TD16439-8	**D4 @ 6**					
Chloride		2870	110		mg/kg	EPA 300.0
TD16439-8A	**D4 @ 6**					
TPH (C10-C22) [a]		35.3	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		150	5.2	2.6	mg/kg	SW846 8015C
TD16439-9	**D4 @ 12**					
Chloride		1700	55		mg/kg	EPA 300.0
TD16439-9A	**D4 @ 12**					
TPH (C10-C22) [a]		16.2	5.5	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		60.0	5.5	2.7	mg/kg	SW846 8015C
TD16439-10B	**D4 @ 28**					
Chloride		3590	260		mg/kg	EPA 300.0
TD16439-11	**D5 @ 6**					
Chloride		1920	100		mg/kg	EPA 300.0
TD16439-11A	**D5 @ 6**					
TPH (C10-C22) [a]		20.7	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		66.1	5.2	2.6	mg/kg	SW846 8015C

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-12	**D5 @ 12**					
Chloride		2220	110		mg/kg	EPA 300.0
TD16439-12A	**D5 @ 12**					
TPH (C10-C22) [a]		148	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		319	5.3	2.6	mg/kg	SW846 8015C
TD16439-13B	**D5 @ 28**					
Chloride		1670	51		mg/kg	EPA 300.0
TD16439-13R	**D5 @ 28**					
TPH (C10-C22) [a]		22.7	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		42.0	5.2	2.6	mg/kg	SW846 8015C
TD16439-14	**D6 @ 6**					
Chloride		2460	100		mg/kg	EPA 300.0
TD16439-14A	**D6 @ 6**					
TPH (C10-C22) [a]		14.3	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		54.1	5.3	2.7	mg/kg	SW846 8015C
TD16439-15	**D6 @ 9**					
Chloride		1920	100		mg/kg	EPA 300.0
TD16439-15A	**D6 @ 9**					
TPH (C10-C22) [a]		8.07	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		20.3	5.2	2.6	mg/kg	SW846 8015C
TD16439-16	**D7 @ 6**					
Chloride		2120	100		mg/kg	EPA 300.0
TD16439-16A	**D7 @ 6**					
TPH (C10-C22) [a]		47.8	5.1	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		120	5.1	2.6	mg/kg	SW846 8015C

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-17	**D7 @ 10**					
Chloride		2920	100		mg/kg	EPA 300.0
TD16439-17A	**D7 @ 10**					
TPH (C10-C22) [a]		13.4	5.1	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		37.6	5.1	2.6	mg/kg	SW846 8015C
TD16439-18	**D8 @ 6**					
Chloride		2410	100		mg/kg	EPA 300.0
TD16439-18A	**D8 @ 6**					
TPH (C10-C22) [a]		25.1	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		85.7	5.2	2.6	mg/kg	SW846 8015C
TD16439-19	**D8 @ 12**					
Chloride		2060	110		mg/kg	EPA 300.0
TD16439-19A	**D8 @ 12**					
TPH (C10-C22) [a]		11.6	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		55.7	5.4	2.7	mg/kg	SW846 8015C
TD16439-20B	**D8 @ 24**					
Chloride		1860	54		mg/kg	EPA 300.0
TD16439-21	**D9 @ 6**					
Chloride		142	11		mg/kg	EPA 300.0
TD16439-21A	**D9 @ 6**					
TPH (C10-C22) [a]		3.86 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		13.7	5.2	2.6	mg/kg	SW846 8015C
TD16439-22	**D9 @ 10**					
Chloride		242	27		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-22A	**D9 @ 10**					
TPH (C10-C22) [a]		3.50 J	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		7.74	5.3	2.7	mg/kg	SW846 8015C
TD16439-23	**D10 @ 6**					
Chloride		204	26		mg/kg	EPA 300.0
TD16439-23A	**D10 @ 6**					
TPH (C10-C22) [a]		2.79 J	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		4.10 J	5.3	2.6	mg/kg	SW846 8015C
TD16439-24	**D10 @ 9**					
Chloride		492	26		mg/kg	EPA 300.0
TD16439-24A	**D10 @ 9**					
TPH (C10-C22) [a]		6.65	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		35.7	5.3	2.6	mg/kg	SW846 8015C
TD16439-25	**D11 @ 6**					
Chloride		94.3	5.5		mg/kg	EPA 300.0
TD16439-25A	**D11 @ 6**					
TPH (C10-C22) [a]		3.94 J	5.5	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		7.07	5.5	2.8	mg/kg	SW846 8015C
TD16439-26	**D11 @ 9**					
Chloride		95.2	5.0		mg/kg	EPA 300.0
TD16439-26A	**D11 @ 9**					
TPH-GRO (C6-C10) [a]		8.89	5.1	5.0	mg/kg	SW846 8015C
TPH (C10-C22) [a]		5.84	5.1	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		17.2	5.1	2.5	mg/kg	SW846 8015C
TD16439-27	**D12 @ 6**					
Chloride		72.9	5.2		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-27A	**D12 @ 6**					
TPH (C10-C22) [a]		4.79 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		13.9	5.2	2.6	mg/kg	SW846 8015C
TD16439-28	**D12 @ 9**					
Chloride		71.9	5.1		mg/kg	EPA 300.0
TD16439-28A	**D12 @ 9**					
TPH (C10-C22) [a]		13.5	5.0	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		108	5.0	2.5	mg/kg	SW846 8015C
TD16439-29	**D13 @ 6**					
Chloride		1170	51		mg/kg	EPA 300.0
TD16439-29A	**D13 @ 6**					
TPH (C10-C22) [a]		3.75 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		9.01	5.2	2.6	mg/kg	SW846 8015C
TD16439-30	**D13 @ 8**					
Chloride		1090	53		mg/kg	EPA 300.0
TD16439-30A	**D13 @ 8**					
TPH (C10-C22) [a]		4.44 J	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		14.4	5.3	2.7	mg/kg	SW846 8015C
TD16439-31B	**D13 @ 20**					
Chloride		185	5.6		mg/kg	EPA 300.0
TD16439-32	**D14 @ 6**					
Chloride		428	26		mg/kg	EPA 300.0
TD16439-32A	**D14 @ 6**					
TPH (C10-C22) [a]		4.95 J	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		12.8	5.3	2.7	mg/kg	SW846 8015C

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-33	**D14 @ 9**					
Chloride		753	51		mg/kg	EPA 300.0
TD16439-33A	**D14 @ 9**					
TPH (C10-C22) [a]		4.59 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		16.1	5.2	2.6	mg/kg	SW846 8015C
TD16439-34	**D15 @ 6**					
Chloride		1990	110		mg/kg	EPA 300.0
TD16439-34A	**D15 @ 6**					
TPH (C10-C22) [a]		3.86 J	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		10.9	5.4	2.7	mg/kg	SW846 8015C
TD16439-35	**D15 @ 20**					
Chloride		359	27		mg/kg	EPA 300.0
TD16439-35A	**D15 @ 20**					
TPH (C10-C22) [a]		3.21 J	5.6	2.8	mg/kg	SW846 8015C
TD16439-36	**D16 @ 6**					
Chloride		1900	110		mg/kg	EPA 300.0
TD16439-36A	**D16 @ 6**					
TPH (C10-C22) [a]		4.37 J	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		12.6	5.3	2.6	mg/kg	SW846 8015C
TD16439-37	**D16 @ 9**					
Chloride		1790	100		mg/kg	EPA 300.0
TD16439-37A	**D16 @ 9**					
TPH (C10-C22) [a]		3.50 J	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		4.24 J	5.3	2.7	mg/kg	SW846 8015C

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-38	**CD-1 @ 18**					
Chloride		2760	100		mg/kg	EPA 300.0
TD16439-38A	**CD-1 @ 18**					
TPH (C10-C22) [a]		28.4	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		116	5.2	2.6	mg/kg	SW846 8015C
TD16439-39R	**CD-1 @ 30**					
TPH (C10-C22) [a]		17.1	5.1	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		45.8	5.1	2.6	mg/kg	SW846 8015C
TD16439-40	**CD-2 @ 6**					
Chloride		1360	54		mg/kg	EPA 300.0
TD16439-40A	**CD-2 @ 6**					
TPH (C10-C22) [a]		4.12 J	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		11.7	5.4	2.7	mg/kg	SW846 8015C
TD16439-41	**CD-2 @ 12**					
Chloride		1100	52		mg/kg	EPA 300.0
TD16439-41A	**CD-2 @ 12**					
TPH (C10-C22) [a]		3.53 J	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		8.22	5.3	2.6	mg/kg	SW846 8015C
TD16439-42B	**CD-2 @ 30**					
Chloride		1180	54		mg/kg	EPA 300.0
TD16439-43	**CD-3 @ 4**					
Chloride		129	5.3		mg/kg	EPA 300.0
TD16439-43A	**CD-3 @ 4**					
TPH (C10-C22) [a]		3.74 J	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		9.07	5.3	2.7	mg/kg	SW846 8015C

Summary of Hits

Job Number: TD16439
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/07/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16439-44	**CD-3 @ 7**					
Chloride		110	5.2		mg/kg	EPA 300.0
TD16439-44A	**CD-3 @ 7**					
TPH (C10-C22) [a]		4.51 J	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		6.76	5.3	2.7	mg/kg	SW846 8015C
TD16439-45	**DUP-2**					
Chloride		963	51		mg/kg	EPA 300.0
TD16439-45A	**DUP-2**					
TPH (C10-C22) [a]		25.3	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		93.7	5.2	2.6	mg/kg	SW846 8015C
TD16439-46	**DUP-3**					
Chloride		1290	53		mg/kg	EPA 300.0
TD16439-46A	**DUP-3**					
TPH (C10-C22) [a]		19.4	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		69.1	5.3	2.6	mg/kg	SW846 8015C
TD16439-47	**DUP-4**					
Chloride		2700	110		mg/kg	EPA 300.0
TD16439-47A	**DUP-4**					
TPH (C10-C22) [a]		20.5	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		75.9	5.3	2.6	mg/kg	SW846 8015C

(a) Analysis performed at SGS Scott, LA.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	D-1 @ 6"		
Lab Sample ID:	TD16439-1	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	88.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	5120	570	mg/kg	100	02/15/18 11:47	SM	EPA 300.0
Solids, Percent	88		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-1 @ 6"		
Lab Sample ID:	TD16439-1A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	88.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286048.D	1	02/12/18 16:25	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.3	6.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		63-139%
540-36-3	1,4-Difluorobenzene	94%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-1 @ 6"		
Lab Sample ID:	TD16439-1A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	88.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004756.D	1	02/13/18 16:05	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	15.8	5.6	2.8	mg/kg	
	TPH (> C22-C36)	54.9	5.6	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-1 @ 18"		
Lab Sample ID:	TD16439-2	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	90.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	4410	270	mg/kg	50	02/15/18 12:34	SM	EPA 300.0
Solids, Percent	90.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-1 @ 18"		
Lab Sample ID:	TD16439-2A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	90.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286058.D	1	02/12/18 18:16	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.0	5.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	93%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-1 @ 18"		
Lab Sample ID:	TD16439-2A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	90.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004757.D	1	02/13/18 16:27	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.18	5.5	2.7	mg/kg	J
	TPH (> C22-C36)	10.5	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D2 @ 6"		
Lab Sample ID:	TD16439-3	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	91.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1360	54	mg/kg	10	02/15/18 13:22	SM	EPA 300.0
Solids, Percent	91.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D2 @ 6"		
Lab Sample ID:	TD16439-3A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	91.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286184.D	1	02/13/18 17:50	ALA	n/a	n/a	L:GLA1687
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D2 @ 6"		
Lab Sample ID:	TD16439-3A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004758.D	1	02/13/18 16:50	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.85	5.4	2.7	mg/kg	J
	TPH (> C22-C36)	16.9	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D2 @ 24		
Lab Sample ID:	TD16439-4	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	85.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1510	57	mg/kg	10	02/15/18 13:38	SM	EPA 300.0
Solids, Percent	85.5		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D2 @ 24		
Lab Sample ID:	TD16439-4A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	85.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286062.D	1	02/12/18 19:01	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.6	6.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		63-139%
540-36-3	1,4-Difluorobenzene	93%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D2 @ 24		
Lab Sample ID:	TD16439-4A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	85.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004762.D	1	02/13/18 18:12	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.8	2.9	mg/kg	
	TPH (> C22-C36)	ND	5.8	2.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	50%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D3 @ 6		
Lab Sample ID:	TD16439-5	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	979	53	mg/kg	10	02/15/18 13:54	SM	EPA 300.0
Solids, Percent	93.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D3 @ 6		
Lab Sample ID:	TD16439-5A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286064.D	1	02/12/18 19:23	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		63-139%
540-36-3	1,4-Difluorobenzene	92%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D3 @ 6		
Lab Sample ID:	TD16439-5A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004763.D	1	02/13/18 18:32	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	13.6	5.3	2.6	mg/kg	
	TPH (> C22-C36)	66.8	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	39%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D3 @ 12		
Lab Sample ID:	TD16439-6	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	90.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1090	54	mg/kg	10	02/15/18 14:10	SM	EPA 300.0
Solids, Percent	90.2		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D3 @ 12		
Lab Sample ID:	TD16439-6A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	90.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286066.D	1	02/12/18 19:45	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.0	5.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D3 @ 12		
Lab Sample ID:	TD16439-6A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	90.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004764.D	1	02/13/18 18:53	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	6.64	5.4	2.7	mg/kg	
	TPH (> C22-C36)	32.8	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D3 @ 28		
Lab Sample ID:	TD16439-7B	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	749	27	mg/kg	5	03/03/18 17:05	LR	EPA 300.0
Solids, Percent	93		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D4 @ 6		
Lab Sample ID:	TD16439-8	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2870	110	mg/kg	20	02/15/18 14:26	SM	EPA 300.0
Solids, Percent	94.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D4 @ 6		
Lab Sample ID:	TD16439-8A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286070.D	1	02/12/18 20:29	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	92%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D4 @ 6		
Lab Sample ID:	TD16439-8A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004765.D	1	02/13/18 19:13	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	35.3	5.2	2.6	mg/kg	
	TPH (> C22-C36)	150	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D4 @ 12		
Lab Sample ID:	TD16439-9	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	91.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1700	55	mg/kg	10	02/15/18 14:42	SM	EPA 300.0
Solids, Percent	91		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D4 @ 12		
Lab Sample ID:	TD16439-9A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	91.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286072.D	1	02/12/18 20:51	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.0	5.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D4 @ 12		
Lab Sample ID:	TD16439-9A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004766.D	1	02/13/18 19:34	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	16.2	5.5	2.7	mg/kg	
	TPH (> C22-C36)	60.0	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D4 @ 28		
Lab Sample ID:	TD16439-10B	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	95.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	3590	260	mg/kg	50	03/03/18 17:20	LR	EPA 300.0
Solids, Percent	95.1		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D5 @ 6		
Lab Sample ID:	TD16439-11	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	96.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1920	100	mg/kg	20	02/15/18 14:58	SM	EPA 300.0
Solids, Percent	96.6		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D5 @ 6		
Lab Sample ID:	TD16439-11A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	96.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286080.D	1	02/12/18 22:19	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D5 @ 6		
Lab Sample ID:	TD16439-11A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004767.D	1	02/13/18 19:54	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	20.7	5.2	2.6	mg/kg	
	TPH (> C22-C36)	66.1	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D5 @ 12		
Lab Sample ID:	TD16439-12	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2220	110	mg/kg	20	02/15/18 15:14	SM	EPA 300.0
Solids, Percent	93.7		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D5 @ 12		
Lab Sample ID:	TD16439-12A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286082.D	1	02/12/18 22:41	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D5 @ 12		
Lab Sample ID:	TD16439-12A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004768.D	1	02/13/18 20:15	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	148	5.3	2.6	mg/kg	
	TPH (> C22-C36)	319	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D5 @ 28		
Lab Sample ID:	TD16439-13B	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	96.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1670	51	mg/kg	10	03/03/18 17:36	LR	EPA 300.0
Solids, Percent	96.3		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D5 @ 28		
Lab Sample ID:	TD16439-13R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	97.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286704.D	1	02/21/18 06:58	ALA	n/a	n/a	L:GLA1697
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	5.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D5 @ 28		
Lab Sample ID:	TD16439-13R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	97.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005081.D	1	02/22/18 18:27	ALA	02/21/18 12:00	L:OP10558	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	22.7	5.2	2.6	mg/kg	
	TPH (> C22-C36)	42.0	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D6 @ 6		
Lab Sample ID:	TD16439-14	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2460	100	mg/kg	20	02/16/18 01:02	SM	EPA 300.0
Solids, Percent	93.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D6 @ 6		
Lab Sample ID:	TD16439-14A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286086.D	1	02/12/18 23:24	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D6 @ 6		
Lab Sample ID:	TD16439-14A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004769.D	1	02/13/18 20:36	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	14.3	5.3	2.7	mg/kg	
	TPH (> C22-C36)	54.1	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D6 @ 9		
Lab Sample ID:	TD16439-15	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	96.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1920	100	mg/kg	20	02/16/18 02:21	SM	EPA 300.0
Solids, Percent	96.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D6 @ 9		
Lab Sample ID:	TD16439-15A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	96.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286088.D	1	02/12/18 23:46	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D6 @ 9		
Lab Sample ID:	TD16439-15A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004873.D	1	02/15/18 11:13	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	8.07	5.2	2.6	mg/kg	
	TPH (> C22-C36)	20.3	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D7 @ 6		
Lab Sample ID:	TD16439-16	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	95.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2120	100	mg/kg	20	02/16/18 02:37	SM	EPA 300.0
Solids, Percent	95.5		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D7 @ 6		
Lab Sample ID:	TD16439-16A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	95.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286090.D	1	02/13/18 00:08	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D7 @ 6		
Lab Sample ID:	TD16439-16A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004771.D	1	02/13/18 21:17	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	47.8	5.1	2.6	mg/kg	
	TPH (> C22-C36)	120	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D7 @ 10		
Lab Sample ID:	TD16439-17	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2920	100	mg/kg	20	02/16/18 02:53	SM	EPA 300.0
Solids, Percent	95.4		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D7 @ 10		
Lab Sample ID:	TD16439-17A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286092.D	1	02/13/18 00:30	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D7 @ 10		
Lab Sample ID:	TD16439-17A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004780.D	1	02/14/18 00:23	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	13.4	5.1	2.6	mg/kg	
	TPH (> C22-C36)	37.6	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	53%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D8 @ 6		
Lab Sample ID:	TD16439-18	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2410	100	mg/kg	20	02/16/18 03:09	SM	EPA 300.0
Solids, Percent	94.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D8 @ 6		
Lab Sample ID:	TD16439-18A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286098.D	1	02/13/18 01:36	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D8 @ 6		
Lab Sample ID:	TD16439-18A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004781.D	1	02/14/18 00:44	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	25.1	5.2	2.6	mg/kg	
	TPH (> C22-C36)	85.7	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D8 @ 12		
Lab Sample ID:	TD16439-19	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2060	110	mg/kg	20	02/16/18 03:25	SM	EPA 300.0
Solids, Percent	92.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D8 @ 12		
Lab Sample ID:	TD16439-19A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286100.D	1	02/13/18 01:58	ALA	n/a	n/a	L:GLA1685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.9	5.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D8 @ 12		
Lab Sample ID:	TD16439-19A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004782.D	1	02/14/18 01:04	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	11.6	5.4	2.7	mg/kg	
	TPH (> C22-C36)	55.7	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	54%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D8 @ 24		
Lab Sample ID:	TD16439-20B	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	92.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1860	54	mg/kg	10	03/03/18 17:52	LR	EPA 300.0
Solids, Percent	92.9		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D9 @ 6		
Lab Sample ID:	TD16439-21	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	142	11	mg/kg	2	02/16/18 03:41	SM	EPA 300.0
Solids, Percent	94.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D9 @ 6		
Lab Sample ID:	TD16439-21A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286112.D	1	02/13/18 04:09	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	5.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D9 @ 6		
Lab Sample ID:	TD16439-21A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004783.D	1	02/14/18 01:25	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.86	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	13.7	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D9 @ 10		
Lab Sample ID:	TD16439-22	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	242	27	mg/kg	5	02/16/18 03:57	SM	EPA 300.0
Solids, Percent	93		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D9 @ 10		
Lab Sample ID:	TD16439-22A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286114.D	1	02/13/18 04:31	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	5.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D9 @ 10		
Lab Sample ID:	TD16439-22A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004784.D	1	02/14/18 01:46	ALA	02/13/18 07:10	L:OP10476	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.50	5.3	2.7	mg/kg	J
	TPH (> C22-C36)	7.74	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D10 @ 6		
Lab Sample ID:	TD16439-23	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	204	26	mg/kg	5	02/16/18 04:13	SM	EPA 300.0
Solids, Percent	93.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D10 @ 6		
Lab Sample ID:	TD16439-23A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286116.D	1	02/13/18 04:53	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	92%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D10 @ 6		
Lab Sample ID:	TD16439-23A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004790.D	1	02/14/18 03:50	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.79	5.3	2.6	mg/kg	J
	TPH (> C22-C36)	4.10	5.3	2.6	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	49%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D10 @ 9		
Lab Sample ID:	TD16439-24	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	95.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	492	26	mg/kg	5	02/16/18 04:29	SM	EPA 300.0
Solids, Percent	95.2		%	1	02/13/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D10 @ 9		
Lab Sample ID:	TD16439-24A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	95.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286118.D	1	02/13/18 05:15	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	5.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	92%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D10 @ 9		
Lab Sample ID:	TD16439-24A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004874.D	1	02/15/18 11:36	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	6.65	5.3	2.6	mg/kg	
	TPH (> C22-C36)	35.7	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D11 @ 6		
Lab Sample ID:	TD16439-25	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	90.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	94.3	5.5	mg/kg	1	02/15/18 16:33	SM	EPA 300.0
Solids, Percent	90.4		%	1	02/13/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D11 @ 6		
Lab Sample ID:	TD16439-25A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	90.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286120.D	1	02/13/18 05:37	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D11 @ 6		
Lab Sample ID:	TD16439-25A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	90.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004792.D	1	02/14/18 04:31	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.94	5.5	2.8	mg/kg	J
	TPH (> C22-C36)	7.07	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D11 @ 9		
Lab Sample ID:	TD16439-26	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	98.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	95.2	5.0	mg/kg	1	02/15/18 16:49	SM	EPA 300.0
Solids, Percent	98.3		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D11 @ 9		
Lab Sample ID:	TD16439-26A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	98.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286122.D	1	02/13/18 05:58	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	8.89	5.1	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D11 @ 9		
Lab Sample ID:	TD16439-26A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	98.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004818.D	1	02/14/18 13:30	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.84	5.1	2.5	mg/kg	
	TPH (> C22-C36)	17.2	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D12 @ 6		
Lab Sample ID:	TD16439-27	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	72.9	5.2	mg/kg	1	02/15/18 17:05	SM	EPA 300.0
Solids, Percent	95.4		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D12 @ 6		
Lab Sample ID:	TD16439-27A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286128.D	1	02/13/18 07:04	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	5.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D12 @ 6		
Lab Sample ID:	TD16439-27A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004794.D	1	02/14/18 05:13	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.79	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	13.9	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	45%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D12 @ 9		
Lab Sample ID:	TD16439-28	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	96.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	71.9	5.1	mg/kg	1	02/15/18 17:53	SM	EPA 300.0
Solids, Percent	96.7		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D12 @ 9		
Lab Sample ID:	TD16439-28A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	96.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286130.D	1	02/13/18 07:26	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.2	5.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D12 @ 9		
Lab Sample ID:	TD16439-28A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004795.D	1	02/14/18 05:34	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	13.5	5.0	2.5	mg/kg	
	TPH (> C22-C36)	108	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D13 @ 6		
Lab Sample ID:	TD16439-29	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1170	51	mg/kg	10	02/15/18 18:09	SM	EPA 300.0
Solids, Percent	93.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D13 @ 6		
Lab Sample ID:	TD16439-29A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286132.D	1	02/13/18 07:48	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D13 @ 6		
Lab Sample ID:	TD16439-29A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004796.D	1	02/14/18 05:55	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.75	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	9.01	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D13 @ 8		
Lab Sample ID:	TD16439-30	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1090	53	mg/kg	10	02/15/18 18:25	SM	EPA 300.0
Solids, Percent	93.5		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D13 @ 8		
Lab Sample ID:	TD16439-30A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286134.D	1	02/13/18 08:10	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D13 @ 8		
Lab Sample ID:	TD16439-30A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004797.D	1	02/14/18 06:15	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.44	5.3	2.7	mg/kg	J
	TPH (> C22-C36)	14.4	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D13 @ 20		
Lab Sample ID:	TD16439-31B	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	88.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	185	5.6	mg/kg	1	03/03/18 18:08	LR	EPA 300.0
Solids, Percent	88.2		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D14 @ 6		
Lab Sample ID:	TD16439-32	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	428	26	mg/kg	5	02/15/18 18:40	SM	EPA 300.0
Solids, Percent	93		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D14 @ 6		
Lab Sample ID:	TD16439-32A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286138.D	1	02/13/18 08:53	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D14 @ 6		
Lab Sample ID:	TD16439-32A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004801.D	1	02/14/18 07:39	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.95	5.3	2.7	mg/kg	J
	TPH (> C22-C36)	12.8	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D14 @ 9		
Lab Sample ID:	TD16439-33	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	96.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	753	51	mg/kg	10	02/15/18 18:56	SM	EPA 300.0
Solids, Percent	96.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D14 @ 9		
Lab Sample ID:	TD16439-33A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	96.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286140.D	1	02/13/18 09:15	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	5.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D14 @ 9		
Lab Sample ID:	TD16439-33A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004802.D	1	02/14/18 07:59	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.59	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	16.1	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D15 @ 6		
Lab Sample ID:	TD16439-34	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	91.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1990	110	mg/kg	20	02/15/18 19:44	SM	EPA 300.0
Solids, Percent	91.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D15 @ 6		
Lab Sample ID:	TD16439-34A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	91.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286142.D	1	02/13/18 09:37	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.9	5.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D15 @ 6		
Lab Sample ID:	TD16439-34A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004803.D	1	02/14/18 08:20	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.86	5.4	2.7	mg/kg	J
	TPH (> C22-C36)	10.9	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D15 @ 20		
Lab Sample ID:	TD16439-35	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	88.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	359	27	mg/kg	5	02/15/18 19:59	SM	EPA 300.0
Solids, Percent	88.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D15 @ 20		
Lab Sample ID:	TD16439-35A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	88.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286148.D	1	02/13/18 11:03	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.3	6.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		63-139%
540-36-3	1,4-Difluorobenzene	92%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D15 @ 20		
Lab Sample ID:	TD16439-35A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	88.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004804.D	1	02/14/18 08:40	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.21	5.6	2.8	mg/kg	J
	TPH (> C22-C36)	ND	5.6	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D16 @ 6		
Lab Sample ID:	TD16439-36	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	94.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1900	110	mg/kg	20	02/15/18 20:47	SM	EPA 300.0
Solids, Percent	94		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D16 @ 6		
Lab Sample ID:	TD16439-36A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	94.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286150.D	1	02/13/18 11:25	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	94%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D16 @ 6		
Lab Sample ID:	TD16439-36A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004805.D	1	02/14/18 09:01	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.37	5.3	2.6	mg/kg	J
	TPH (> C22-C36)	12.6	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D16 @ 9		
Lab Sample ID:	TD16439-37	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1790	100	mg/kg	20	02/15/18 21:03	SM	EPA 300.0
Solids, Percent	93.2		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D16 @ 9		
Lab Sample ID:	TD16439-37A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286152.D	1	02/13/18 11:48	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	94%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D16 @ 9		
Lab Sample ID:	TD16439-37A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004806.D	1	02/14/18 09:22	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.50	5.3	2.7	mg/kg	J
	TPH (> C22-C36)	4.24	5.3	2.7	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-1 @ 18		
Lab Sample ID:	TD16439-38	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	95.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2760	100	mg/kg	20	02/15/18 21:19	SM	EPA 300.0
Solids, Percent	95.9		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-1 @ 18		
Lab Sample ID:	TD16439-38A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	95.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286154.D	1	02/13/18 12:10	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.3	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-1 @ 18		
Lab Sample ID:	TD16439-38A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004807.D	1	02/14/18 09:43	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	28.4	5.2	2.6	mg/kg	
	TPH (> C22-C36)	116	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-1 @ 30		
Lab Sample ID:	TD16439-39R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	96.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286706.D	1	02/21/18 07:21	ALA	n/a	n/a	L:GLA1697
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.2	5.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-1 @ 30		
Lab Sample ID:	TD16439-39R	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005082.D	1	02/22/18 18:49	ALA	02/21/18 12:00	L:OP10558	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	17.1	5.1	2.6	mg/kg	
	TPH (> C22-C36)	45.8	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CD-2 @ 6		
Lab Sample ID:	TD16439-40	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1360	54	mg/kg	10	02/15/18 22:07	SM	EPA 300.0
Solids, Percent	92.3		%	1	02/13/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-2 @ 6		
Lab Sample ID:	TD16439-40A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286158.D	1	02/13/18 12:56	ALA	n/a	n/a	L:GLA1686
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	93%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-2 @ 6		
Lab Sample ID:	TD16439-40A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004808.D	1	02/14/18 10:03	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.12	5.4	2.7	mg/kg	J
	TPH (> C22-C36)	11.7	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-2 @ 12		
Lab Sample ID:	TD16439-41	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	94.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1100	52	mg/kg	10	02/15/18 22:54	SM	EPA 300.0
Solids, Percent	94		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-2 @ 12		
Lab Sample ID:	TD16439-41A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	94.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286186.D	1	02/13/18 18:12	ALA	n/a	n/a	L:GLA1687
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.6	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-2 @ 12		
Lab Sample ID:	TD16439-41A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004809.D	1	02/14/18 10:24	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.53	5.3	2.6	mg/kg	J
	TPH (> C22-C36)	8.22	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-2 @ 30		
Lab Sample ID:	TD16439-42B	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1180	54	mg/kg	10	03/03/18 18:40	LR	EPA 300.0
Solids, Percent	92.3		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-3 @ 4		
Lab Sample ID:	TD16439-43	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	129	5.3	mg/kg	1	02/15/18 23:10	SM	EPA 300.0
Solids, Percent	93.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-3 @ 4		
Lab Sample ID:	TD16439-43A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286194.D	1	02/13/18 19:43	ALA	n/a	n/a	L:GLA1687
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	94%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-3 @ 4		
Lab Sample ID:	TD16439-43A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004810.D	1	02/14/18 10:45	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.74	5.3	2.7	mg/kg	J
	TPH (> C22-C36)	9.07	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-3 @ 7		
Lab Sample ID:	TD16439-44	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	110	5.2	mg/kg	1	02/15/18 23:26	SM	EPA 300.0
Solids, Percent	93		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-3 @ 7		
Lab Sample ID:	TD16439-44A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286196.D	1	02/13/18 20:06	ALA	n/a	n/a	L:GLA1687
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-3 @ 7		
Lab Sample ID:	TD16439-44A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004814.D	1	02/14/18 12:07	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.51	5.3	2.7	mg/kg	J
	TPH (> C22-C36)	6.76	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	TD16439-45	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	96.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	963	51	mg/kg	10	02/15/18 23:42	SM	EPA 300.0
Solids, Percent	96.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	TD16439-45A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	96.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286198.D	1	02/13/18 20:28	ALA	n/a	n/a	L:GLA1687
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	TD16439-45A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004815.D	1	02/14/18 12:28	ALA	02/13/18 07:10	L:OP10477	L:GLG613
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	25.3	5.2	2.6	mg/kg	
	TPH (> C22-C36)	93.7	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-3		
Lab Sample ID:	TD16439-46	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1290	53	mg/kg	10	02/15/18 23:58	SM	EPA 300.0
Solids, Percent	92.8		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-3		
Lab Sample ID:	TD16439-46A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286200.D	1	02/13/18 20:51	ALA	n/a	n/a	L:GLA1687
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	97%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-3		
Lab Sample ID:	TD16439-46A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004831.D	1	02/14/18 18:18	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	19.4	5.3	2.6	mg/kg	
	TPH (> C22-C36)	69.1	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-4		
Lab Sample ID:	TD16439-47	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
		Percent Solids:	93.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2700	110	mg/kg	20	02/16/18 00:14	SM	EPA 300.0
Solids, Percent	93.1		%	1	02/10/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-4		
Lab Sample ID:	TD16439-47A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C	**Percent Solids:**	93.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286202.D	1	02/13/18 21:14	ALA	n/a	n/a	L:GLA1687
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	5.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	97%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-4		
Lab Sample ID:	TD16439-47A	**Date Sampled:**	02/07/18
Matrix:	SO - Soil	**Date Received:**	02/09/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004832.D	1	02/14/18 18:39	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	20.5	5.3	2.6	mg/kg	
	TPH (> C22-C36)	75.9	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 4

FED-EX Tracking # | Bottle Order Control #
SGS Accutest Quote # | SGS Accutest Job # TD16439

Client / Reporting Information
Company Name: EnTech Consulting Corp
Street Address: 21 Waterway Ave, Suite 300
City: The Woodlands State: TX Zip: 77380
Project Contact: Pete Schram E-mail: pete.schram@entechservices.com
Phone #: 210 326 7531 Fax #:
Sampler(s) Name(s): Pete Schram Phone #:

Project Information
Project Name: CJES State AB SWD #1
Street: Lea Co., NM
City: State:
Project #:
Client Purchase Order #:
Project Manager: Chan Patel

Billing Information (If different from Report to)
Company Name: Entech
Street Address: 21 Waterway Ave #300
City: The Woodlands State: TX Zip:
Attention: Chan Patel

Requested Analyses: Cl Method 300.0 | TPH 8015 (GRO/DRO/MRO) | Hold for analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Cl Method 300.0	TPH 8015	Hold for analysis	LAB USE ONLY
1	D-1 @ 6"	2/7/18	1055	PJS	S	1						✓										
2	D-1 @ 18"		1055									✓							✓	✓		
3	~~D1 @ 24"~~ D2 @ 6"		1117									✓							✓	✓		
4	D2 @ 24		1117									✓							✓	✓		
5	D3 @ 6		1140									✓							✓	✓		
6	D3 @ 12		1140									✓							✓	✓		
7	D3 @ 28		1140									✓							✓	✓		
8	D4 @ 6		1205									✓									✓	
9	D4 @ 12		1205									✓							✓	✓		
10	D4 @ 28		1205									✓							✓	✓		
11	D5 @ 6		1217									✓									✓	
12	D5 @ 12	2/7/18	1217	PJS	S	1						✓							✓	✓		

LOGGED BY: / VERIFIED BY:

Turnaround Time (Business days)
- [ ] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [x] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1 [signature]	2/7/18 1730	1 [signature]	2/7/18 1730	2 [signature]	2-8-18 800	2 Jason Fisher 2/8/18	15:00
3 [signature] 2/8/18	15:00	3 [signature]		4		4 [signature]	2/9/18 0945
5		5		Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

TD16439: Chain of Custody
Page 1 of 17

SGS ACCUTEST

CHAIN OF CUSTODY

PAGE 2 OF 4

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: TD16439

Client / Reporting Information

Company Name: EnTech Consulting Corp
Street Address: 21 Waterway Ave, Suite 300
City: The Woodlands State: TX Zip: 77380
Project Contact: PETE SCHRAM E-mail: pete.schram@entechservice.com
Phone #: 210 326 7831 Fax #:
Sampler(s) Name(s): PETE SCHRAM Phone #: (210)3267831

Project Information

Project Name: CYS STATE AB SWD #1
Street: LEA Co., NM
City: State:
Project #:
Client Purchase Order #:
Project Manager: CHAN PATEL

Billing Information (if different from Report to)
Company Name: ENTECH
Street Address: 21 WATERWAY AVE #300
City: THE WOODLANDS State: TX Zip:
Attention: CHAN PATEL

Requested Analyses: Cl⁻ Method 300.0 | TPH 8015 Ext (GRO/DRO/MRO) | HOLD FOR ANALYSIS

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Cl⁻ Method 300.0	TPH 8015 Ext (GRO/DRO/MRO)	HOLD FOR ANALYSIS	LAB USE ONLY
13	D5 @ 25	2/7/18	1217	PVS	S	1																
14	D6 @ 6	↓	1230	↓		↓						✓									✓	
15	D6 @ 9		1230									✓							✓	✓		
16	D7 @ 6		1238									✓							✓	✓		
17	D7 @ 10		1253									✓							✓	✓		
18	D8 @ 6		1253									✓							✓	✓		
19	D8 @ 12		1300									✓							✓	✓		
20	D8 @ 24		1300									✓							✓	✓		
21	D9 @ 6		1306									✓									✓	
22	D9 @ 10		1508									✓							✓	✓		
23	D10 @ 6		1508									✓							✓	✓		
24	D10 @ 9	2/7/18	1532	PVS	S	1						✓							✓	✓		

Turnaround Time (Business days)

- ☐ Standard
- ☐ 5 Day RUSH
- ☐ 4 Day RUSH
- ☑ 3 Day RUSH
- ☐ 2 Day RUSH
- ☐ 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☑ Commercial "B" (Level 2)
- ☐ FULT1 (Level 3+4)
- ☐ REDT1 (Level 3+4)
- ☐ Commercial "C"
- ☐ TRRP
- ☐ EDD Format
- ☐ Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1 [signature]	2/7/18 1730	1 [signature]	2/7/18 1730	2 [signature]	2/8/18 500	2 Jason Fisher 2/8/18	15:00
Relinquished by Sampler: 3 Jason Fisher 2/8/18	Date Time: K.CO	Received By: 3 [signature]	Date Time:	Relinquished By: 4	Date Time:	Received By: 4	Date Time:
Relinquished by: 5	Date Time:	Received By: 5	Date Time:	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

TD16439: Chain of Custody
Page 2 of 17

SGS ACCUTEST

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
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PAGE 3 OF 4

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: TD16439

Client / Reporting Information

Company Name: EnTech Consulting Corp
Street Address: 21 Waterway Ave, Suite 300
City: The Woodlands State: TX Zip: 77380
Project Contact: PETE SCHRAM E-mail: pete.schram@entechservice.com
Phone #: 210 326 7831 Fax #:
Sampler(s) Name(s): PETE SCHRAM Phone #:

Project Information

Project Name: WBS STATE AB SEC D #1
Street: LEA Co. NM
City: State:
Project #:
Client Purchase Order #:
Project Manager: CHAN PATEL

Billing Information (if different from Report to)
Company Name: ENTECH
Street Address: 21 WATERWAY AVE #300
City: THE WOODLANDS State: TX Zip:
Attention: CHAN PATEL

Requested Analyses: Cl⁻ Method 300.0; TPH 8015 EXT (GRO/DRO/MRO); HOLD FOR ANALYSIS

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Cl⁻ Method 300.0	TPH 8015 EXT (GRO/DRO/MRO)	HOLD FOR ANALYSIS	LAB USE ONLY
25	D11 @6	2/7/18	1600	PJS	S	1						✓							✓	✓		2
26	D11 @9		1600									✓							✓	✓		2
27	D12 @6		1624									✓							✓	✓		2
28	D12 @9		1624									✓							✓	✓		2
29	D13 @6		1630									✓							✓	✓		2
30	D13 @8		1630									✓							✓	✓		2
31	D13 @30		1630									✓							✓	✓		2
32	D14 @6		1443									✓									✓	2
33	D14 @9		1443									✓							✓	✓		2
34	D15 @6		1452									✓							✓	✓		2
35	D15 @20		1452									✓							✓	✓		2
36	D16 @6	2/7/18	1702	PJS	S	1						✓							✓	✓		2

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [x] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other ____

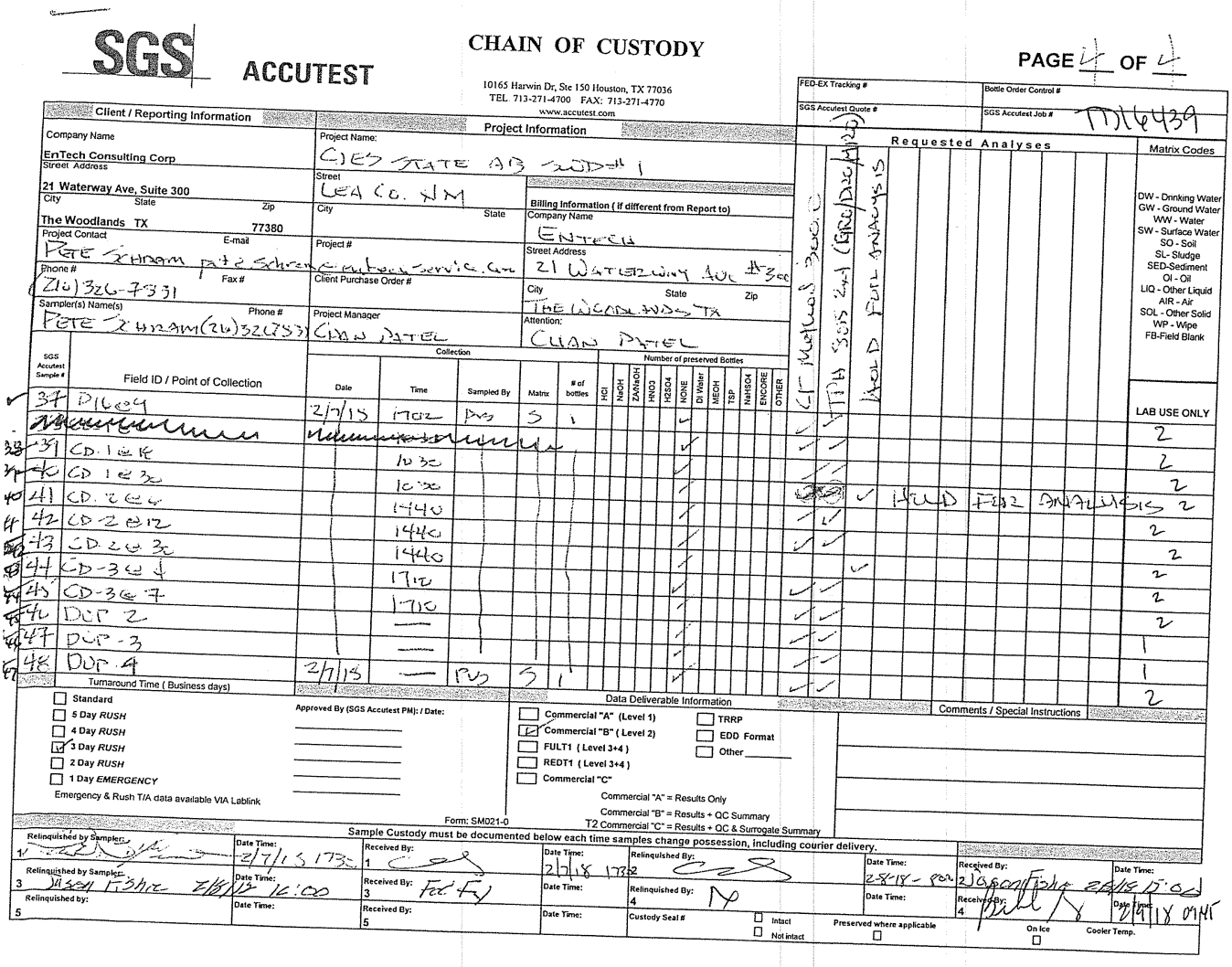
Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1 [signature]	2/7/18 1730	1 [signature]	2/7/18 1730	2 [signature]	2/8/18 800	2 Jason Fisher	2/8/18 15:00
3 Jason Fisher 2/8/18	16:00	3 FedEx		4		4 [signature]	2/9/18 0946
5		5		Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp.



SGS ACCUTEST

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
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PAGE 1 OF 1

FED-EX Tracking #

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # TD16439

Client / Reporting Information

Company Name: EnTech Consulting Corp
Street Address: 21 Waterway Ave, Suite 300
City: The Woodlands State: TX Zip: 77380
Project Contact: Pete Schram E-mail: pete.schram@entechservices.com
Phone #: (214)326-7531 Fax #:
Sampler(s) Name(s): Pete Schram (214)326-7531 Phone #:

Project Information

Project Name: CJES State AB #001H 1
Street: Lea Co. NM
City: State:
Project #:
Client Purchase Order #:
Project Manager: Chan Patel

Billing Information (If different from Report to)

Company Name: ENTECH
Street Address: 21 Waterway Ave #300
City: The Woodlands State: TX Zip:
Attention: Chan Patel

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
37	D1604	2/7/18	1702	PM	S	1						X							2
39	CD-1@6'		1030									X							2
40	CD-1@3'		1030									X							2
41	CD-2@6'		1440									X							2
42	CD-2@12'		1440									X							2
43	CD-2@3'		1440									X							2
44	CD-3@4'		1710									X							2
45	CD-3@7'		1710									X							2
46	DUP-2		—									X							2
47	DUP-3		—									X							1
48	DUP-4	2/7/18	—	PM	S	1						X							1

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [x] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
T2 Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1		2/7/18 1730	1	2/7/18 1730				
2								
3	Jason Fisher	2/8/18 16:00	3					
4								
5	Relinquished by:	Date Time:	Received By: 5	Date Time:	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp.

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16439

Client / Reporting Information
Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s) Phone

Project Information
Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street
City State
Project #
Client Purchase Order #
Project Manager

Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet): B8015DROORO1

Return Sample to Marked Red per SAG (Coolist) DA 2/12/18

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

	SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1	LAB USE ONLY
1	1A	D-1 @ 6"		2/7/18	10:55:00 AM		SO	1					X				X	
2	2A	D-1 @ 18"		2/7/18	10:55:00 AM		SO	1					X				X	
3	3A	D2 @ 6"		2/7/18	11:17:00 AM		SO	1					X				X	
4	4A	D2 @ 24		2/7/18	11:17:00 AM		SO	1					X				X	
5	5A	D3 @ 6		2/7/18	11:40:00 AM		SO	1					X				X	
6	6A	D3 @ 12		2/7/18	11:40:00 AM		SO	1					X				X	
7	7A	D3 @ 28		2/7/18	11:40:00 AM		SO	1					X				X	
8	8A	D4 @ 6		2/7/18	12:05:00 PM		SO	1					X				X — HOLD	
9	9A	D4 @ 12		2/7/18	12:05:00 PM		SO	1					X				X	
10	10A	D4 @ 28		2/7/18	12:05:00 PM		SO	1					X				X	
11	11A	D5 @ 6		2/7/18	12:17:00 PM		SO	1					X				X — HOLD	
12	12A	D5 @ 12		2/7/18	12:17:00 PM		SO	1					X				X	

Turnaround Time (Business days)
- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [x] other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [x] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions: LA
RLYX 6 (7B4)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 S. Banks	2-11-18	1 SGS	2 SGS	2/11 0600	2
3	2/11 1000	3	4		4
5		5	Custody Seal # CSOC	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 2.2

DV439

CHAIN OF CUSTODY

SGS

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16439

Client / Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260/5DROORO1 .	LAB USE ONLY
13A	D5 @ 28		2/7/18	12:17:00 PM		SO	1					X				X	
14A	D6 @ 6		2/7/18	12:30:00 PM		SO	1					X				X	
15A	D6 @ 9		2/7/18	12:30:00 PM		SO	1					X				X	
16A	D7 @ 6		2/7/18	12:53:00 PM		SO	1					X				X	
17A	D7 @ 10		2/7/18	12:53:00 PM		SO	1					X				X	
18A	D8 @ 6		2/7/18	1:00:00 PM		SO	1					X				X	
19A	D8 @ 12		2/7/18	1:06:00 PM		SO	1					X				X	
20A	D8 @ 24		2/7/18	1:06:00 PM		SO	1					X				X	
21A	D9 @ 6		2/7/18	3:08:00 PM		SO	1					X				X	
22A	D9 @ 10		2/7/18	3:08:00 PM		SO	1					X				X	
23A	D10 @ 6		2/7/18	3:32:00 PM		SO	1					X				X	
24A	D10 @ 9		2/7/18	3:32:00 PM		SO	1					X				X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMM8

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	S. James	2-1-18 1900	SGS	SGS	0600	
2						
3		2/1 1900				
4						
5						

Custody Seal # ESOC — Intact / Not Intact — Preserved where applicable — On Ice — Cooler Temp. 2.2

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16439

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1	LAB USE ONLY
25A	D11 @ 5		2/7/18	4:00:00 PM		SO	1					X				X	
26A	D11 @ 9		2/7/18	4:00:00 PM		SO	1					X				X	
27A	D12 @ 6		2/7/18	4:24:00 PM		SO	1					X				X	
28A	D12 @ 9		2/7/18	4:24:00 PM		SO	1					X				X	
29A	D13 @ 6		2/7/18	4:30:00 PM		SO	1					X				X	
30A	D13 @ 8		2/7/18	4:30:00 PM		SO	1					X				X	
31A	D13 @ 20		2/7/18	4:30:00 PM		SO	1					X				X	
32A	D14 @ 6		2/7/18	2:43:00 PM		SO	1					X				X	
33A	D14 @ 9		2/7/18	2:43:00 PM		SO	1					X				X	
34A	D15 @ 6		2/7/18	2:52:00 PM		SO	1					X				X	
35A	D15 @ 20		2/7/18	2:52:00 PM		SO	1					X				X	
36A	D16 @ 6		2/7/18	5:02:00 PM		SO	1					X				X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions: LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: S. Ramos	Date Time: 2-11-18 1000	Received By: SGS	Relinquished By: SGS	Date Time: 2/11 0900	Received By: Eddie Cash
Relinquished by Sampler: Eddie Cash	Date Time: 2/11 1000	Received By: Shearon	Relinquished By:	Date Time:	Received By:
Relinquished by:	Date Time:	Received By:	Custody Seal # CSOC	Intact / Not Intact	Preserved where applicable	On Ice	Cooler Temp. 2.2

HOLD

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: TD16439

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet): B8015DROORO1

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1	LAB USE ONLY
37A	D16 @ 9		2/7/18	5:02:00 PM		SO	1					X				X	
38A	CD-1 @ 18		2/7/18	10:30:00 AM		SO	1					X				X	
39A	CD-1 @ 30		2/7/18	10:30:00 AM		SO	1					X				X — Hold	
40A	CD-2 @ 6		2/7/18	2:40:00 PM		SO	1					X				X	
41A	CD-2 @ 12		2/7/18	2:40:00 PM		SO	1					X				X	
42A	CD-2 @ 30		2/7/18	2:40:00 PM		SO	1					X				X — Hold	
43A	CD-3 @ 4		2/7/18	5:10:00 PM		SO	1					X				X	
44A	CD-3 @ 7		2/7/18	5:10:00 PM		SO	1					X				X	
45A	DUP-2		2/7/18	12:00:00 AM		SO	1					X				X	
46A	DUP-3		2/7/18	12:00:00 AM		SO	1					X				X	
47A	DUP-4		2/7/18	12:00:00 AM		SO	1					X				X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [x] other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

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- [ ] State Forms
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- [x] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 S. Ramos	Date Time: 2-11-18 1400	Received By: 1 SGS	Relinquished By: 2 SGS	Date Time: 2/11 0600	Received By: 2 [signature]
Relinquished by Sampler: 3 [signature]	Date Time: 2/11 1000	Received By: 3 [signature]	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # CSPC	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 2.2

Frye, Ralph (Scott)

From: Garza, Sylvia (Houston)
Sent: Monday, February 12, 2018 12:37 PM
To: Larriviere, Christina (Scott); Taylor, Bonnie (Scott); Frye, Ralph (Scott)
Cc: Estrada, Ruben (Houston); Shkurti, Edmond (Houston); Mulepati, Sandip (Houston)
Subject: TD16439-24, 25, 40 volume?

Importance: High

Hello,

My folks did not subsample a 2oz for TD16439-24, 25, and 40.

Can you send a 2oz our way PLEASE.

We need to run CHL and %SOL here.

Thank you,

Sylvia A. Garza
Environment, Health and Safety
Project Manager, Houston

SGS North America Inc. -Houston
10165 Harwin Dr. Suite 150
Houston, Texas 77036

Phone: +1 713 271 4700 ext 4123
Mobile: +1 281 202 5373
Fax: +1 713 271 4770
Email: Sylvia.Garza@sgs.com

SGS ACCUTEST

COOLER TEMP FORM

TC# TD16439

Delivered by (circle one): FedEx/UPS **ALGC Driver** (circled) Client

Date: 2-12-18

Client: SGS

Cooler Number:

Thermometer ID: IR4 CF, °C 0.0 Corrected Temp, °C 3.6

SAMPLES CONTAINED IN COOLER

LA41220 (1) 250MP

LA41208/09/11 (1) 250H2SO4

~~LA41222~~

LA41222 (1) 32HCL (1) 125H2SO4

~~A~~ LA41239 (1) 500NP

LA41224/21 (1) 32HCL (1) 125H2SO4

LA41204 (1) 32HCL (1) 125H2SO4

LA41214-2 40MNP

LA41223 (1) 32HCL (1) 125H2SO4

LA41216 (2) 40M/HCL

LA41231 (1) LAG H2SO4

~~LA~~ LA41238 (2) 4oz/5M

LA41248 (1) 16oz

LA41207 (1) 4oz

SGS Customer

DATE 02-12-18

SIGNATURE [signature]

pH LOT# 10D4561

Form: SM027-06 Rev 10/24/2016

4.1

4

TD16439: Chain of Custody

Page 10 of 17

SGS Sample Receipt Summary

Job Number: TD16439 **Client:** ENTECH **Project:** SJES STATE AB SWD #1

Date / Time Received: **Delivery Method:** **Airbill #'s:** 731444457888,731444457888

No. Coolers: 3 **Therm ID:** IR9; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (3.6/3.6); #2: (1.4/1.4); 3.6

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		

Quality Control Preservation	Y	or	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐		☐	☑	☐	☐
2. Trip Blank listed on COC:	☐		☐	☑		
3. Samples preserved properly:	☑		☐			
4. VOCs headspace free:	☐		☐	☑		

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☐		☑
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☐		☑

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments Received a jar with lid written "CD 1 @ 1.5" 2/7/18 @ 10:30 and chain list "CD 1 @ 18" lab indentified by collection date and time.
Received a jar with lid written "CD 1 @ 2.5" 2/7/18 @ 10:30 and chain list "CD 1 @ 30" lab indentified by collection date and time.
Received sample 24,25, and 40 back on 2/12/18 @2250

Problem Resolution

Job Number: TD16439

CSR: _____ **Response Date:** _____

Response:

Sample Receipt Log

Job #: TD16439 **Date / Time Received:** 2/9/2018 9:45:00 AM 9:45:00 **Initials:** BG

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16439-1	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-1	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-2	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-2	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-3	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-3	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-4	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-4	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-5	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-5	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-6	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-6	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-7	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-7	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-8	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-8	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-9	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-9	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-10	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-10	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-11	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-11	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-12	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6

Sample Receipt Log

Job #: TD16439 **Date / Time Received:** 2/9/2018 9:45:00 AM 9:45:00 **Initials:** BG

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16439-12	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-13	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-13	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-14	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-14	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-15	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-15	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-16	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-16	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-17	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-17	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-18	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-18	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-19	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-19	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-20	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-20	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-21	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-21	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-22	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-22	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-23	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-23	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6

Sample Receipt Log

Job #: TD16439 **Date / Time Received:** 2/9/2018 9:45:00 AM 9:45:00 **Initials:** BG

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16439-24	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-24	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
2	TD16439-25	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-25	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-26	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-26	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-27	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-27	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-28	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-28	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-29	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-29	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-30	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-30	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-31	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-31	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-32	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-32	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-33	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-33	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-34	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-34	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-35	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4

Sample Receipt Log

Job #: TD16439 **Date / Time Received:** 2/9/2018 9:45:00 AM 9:45:00 **Initials:** BG

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
2	TD16439-35	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-36	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-36	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-37	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-37	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-38	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-38	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-39	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-39	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-40	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-40	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-41	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-41	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-42	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-42	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-43	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-43	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-44	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-44	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-45	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
2	TD16439-45	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	1.4	0	1.4
1	TD16439-46	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-46	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6

Sample Receipt Log

Job #: TD16439 **Date / Time Received:** 2/9/2018 9:45:00 AM 9:45:00 **Initials:** BG

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16439-47	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6
1	TD16439-47	2oz	2	2-104	N/P	Note #2 - Preservative check not applicable.	IR9	3.6	0	3.6

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16439
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP46278/GN87828	5.0	0.0	mg/kg	100	94.3	94.3	90-110%
Chloride	GP46283/GN87828	5.0	0.0	mg/kg	100	94.5	94.5	90-110%
Chloride	GP46284/GN87828	5.0	0.0	mg/kg	100	103	103.0	90-110%
Chloride	GP46285/GN87828	5.0	0.0	mg/kg	100	96.7	96.7	90-110%
Chloride	GP46536/GN88202	5.0	0.0	mg/kg	100	94.6	94.6	90-110%

Associated Samples:
Batch GP46278: TD16439-1, TD16439-2, TD16439-3, TD16439-4, TD16439-5, TD16439-6, TD16439-8, TD16439-9, TD16439-11, TD16439-12
Batch GP46283: TD16439-25, TD16439-26, TD16439-27, TD16439-28, TD16439-29, TD16439-30, TD16439-32, TD16439-33, TD16439-34, TD16439-35
Batch GP46284: TD16439-36, TD16439-37, TD16439-38, TD16439-40, TD16439-41, TD16439-43, TD16439-44, TD16439-45, TD16439-46, TD16439-47
Batch GP46285: TD16439-14, TD16439-15, TD16439-16, TD16439-17, TD16439-18, TD16439-19, TD16439-21, TD16439-22, TD16439-23, TD16439-24
Batch GP46536: TD16439-7B, TD16439-10B, TD16439-13B, TD16439-20B, TD16439-31B, TD16439-42B
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16439
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP46278/GN87828	TD16439-1	mg/kg	5120	5070	1.0	0-20%
Chloride	GP46283/GN87828	TD16439-27	mg/kg	72.9	69.3	5.1	0-20%
Chloride	GP46284/GN87828	TD16439-38	mg/kg	2760	2790	1.1	0-20%
Chloride	GP46285/GN87828	TD16439-14	mg/kg	2460	2650	7.4	0-20%
Chloride	GP46536/GN88202	TD16424-10A	mg/kg	20.1	20.6	2.5	0-20%
Solids, Percent	GN87711	TD16244-1	%	91.1	91	0.1	0-5%
Solids, Percent	GN87712	TD16442-1	%	85.6	85.6	0.0	0-5%
Solids, Percent	GN87713	TD16243-1	%	93.5	93.5	0.0	0-5%
Solids, Percent	GN87774	TD16272-1	%	90.2	90.6	0.4	0-5%
Solids, Percent	GN87931	TD16995-1	%	61.5	61.6	0.2	0-5%
Solids, Percent	GN88127	TD17298-1	%	79.8	79.4	0.5	0-5%

Associated Samples:
Batch GN87711: TD16439-1, TD16439-2, TD16439-3, TD16439-4, TD16439-5, TD16439-6, TD16439-8
Batch GN87712: TD16439-9, TD16439-11, TD16439-12, TD16439-14, TD16439-15, TD16439-16, TD16439-17, TD16439-18, TD16439-19, TD16439-21, TD16439-22, TD16439-23, TD16439-26, TD16439-27, TD16439-28, TD16439-29, TD16439-30, TD16439-32, TD16439-33
Batch GN87713: TD16439-34, TD16439-35, TD16439-36, TD16439-37, TD16439-38, TD16439-41, TD16439-43, TD16439-44, TD16439-45, TD16439-46, TD16439-47
Batch GN87774: TD16439-24, TD16439-25, TD16439-40
Batch GN87931: TD16439-13R, TD16439-39R
Batch GN88127: TD16439-7B, TD16439-10B, TD16439-13B, TD16439-20B, TD16439-31B, TD16439-42B
Batch GP46278: TD16439-1, TD16439-2, TD16439-3, TD16439-4, TD16439-5, TD16439-6, TD16439-8, TD16439-9, TD16439-11, TD16439-12
Batch GP46283: TD16439-25, TD16439-26, TD16439-27, TD16439-28, TD16439-29, TD16439-30, TD16439-32, TD16439-33, TD16439-34, TD16439-35
Batch GP46284: TD16439-36, TD16439-37, TD16439-38, TD16439-40, TD16439-41, TD16439-43, TD16439-44, TD16439-45, TD16439-46, TD16439-47
Batch GP46285: TD16439-14, TD16439-15, TD16439-16, TD16439-17, TD16439-18, TD16439-19, TD16439-21, TD16439-22, TD16439-23, TD16439-24
Batch GP46536: TD16439-7B, TD16439-10B, TD16439-13B, TD16439-20B, TD16439-31B, TD16439-42B
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16439
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP46278/GN87828	TD16439-1	mg/kg	5120	113	6240	993.5(a)	80-120%
Chloride	GP46283/GN87828	TD16439-27	mg/kg	72.9	105	175	97.4	80-120%
Chloride	GP46284/GN87828	TD16439-38	mg/kg	2760	102	2600	-156.2(a)	80-120%
Chloride	GP46285/GN87828	TD16439-14	mg/kg	2460	105	2680	210.3(a)	80-120%
Chloride	GP46536/GN88202	TD16424-10A	mg/kg	20.1	108	122	94.0	80-120%

Associated Samples:
Batch GP46278: TD16439-1, TD16439-2, TD16439-3, TD16439-4, TD16439-5, TD16439-6, TD16439-8, TD16439-9, TD16439-11, TD16439-12
Batch GP46283: TD16439-25, TD16439-26, TD16439-27, TD16439-28, TD16439-29, TD16439-30, TD16439-32, TD16439-33, TD16439-34, TD16439-35
Batch GP46284: TD16439-36, TD16439-37, TD16439-38, TD16439-40, TD16439-41, TD16439-43, TD16439-44, TD16439-45, TD16439-46, TD16439-47
Batch GP46285: TD16439-14, TD16439-15, TD16439-16, TD16439-17, TD16439-18, TD16439-19, TD16439-21, TD16439-22, TD16439-23, TD16439-24
Batch GP46536: TD16439-7B, TD16439-10B, TD16439-13B, TD16439-20B, TD16439-31B, TD16439-42B
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Misc. Forms

Custody Documents and Other Forms

(SGS Scott, LA)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking # | Bottle Order Control #

SGS Quote # | SGS Job # TD16439

Client / Reporting Information

Company Name: SGS North America In.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

B8015DROORO1, V8015GRO ,

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1A	D-1 @ 6"		2/7/18	10:55:00 AM		SO	1					x				
2A	D-1 @ 18"		2/7/18	10:55:00 AM		SO	1					X				
3A	D2 @ 6"		2/7/18	11:17:00 AM		SO	1					X				
4A	D2 @ 24		2/7/18	11:17:00 AM		SO	1					X				
5A	D3 @ 6		2/7/18	11:40:00 AM		SO	1					X				
6A	D3 @ 12		2/7/18	11:40:00 AM		SO	1					X				
8A	D4 @ 6		2/7/18	12:05:00 PM		SO	1					X				
9A	D4 @ 12		2/7/18	12:05:00 PM		SO	1					X				
11A	D5 @ 6		2/7/18	12:17:00 PM		SO	1					X				
12A	D5 @ 12		2/7/18	12:17:00 PM		SO	1					X				
14A	D6 @ 6		2/7/18	12:30:00 PM		SO	1					X				
15A	D6 @ 9		2/7/18	12:30:00 PM		SO	1					X				

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☒ other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☒ Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions: LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Tir	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.
5		5			

6.1 6

TD16439: Chain of Custody
Page 1 of 10
SGS Scott, LA

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16439

Client / Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1, V8015GRO,	LAB USE ONLY
16A	D7 @ 6		2/7/18	12:53:00 PM		SO	1					X				X	
17A	D7 @ 10		2/7/18	12:53:00 PM		SO	1					X				X	
18A	D8 @ 6		2/7/18	1:00:00 PM		SO	1					X				X	
19A	D8 @ 12		2/7/18	1:06:00 PM		SO	1					X				X	
21A	D9 @ 6		2/7/18	3:08:00 PM		SO	1					X				X	
22A	D9 @ 10		2/7/18	3:08:00 PM		SO	1					X				X	
23A	D10 @ 6		2/7/18	3:32:00 PM		SO	1					X				X	
24A	D10 @ 9		2/7/18	3:32:00 PM		SO	1					X				X	
25A	D11 @ 6		2/7/18	4:00:00 PM		SO	1					X				X	
26A	D11 @ 9		2/7/18	4:00:00 PM		SO	1					X				X	
27A	D12 @ 6		2/7/18	4:24:00 PM		SO	1					X				X	
28A	D12 @ 9		2/7/18	4:24:00 PM		SO	1					X				X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Tir	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.
5		5			

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #

Bottle Order Control #

SGS Quote #

SGS Job # TD16439

Client / Reporting Information

Company Name: SGS North America Inc.

Street Address: 10165 Harwin Drive

City: Houston State: TX Zip: 77036

Project Contact: sylvia.garza@sgs.com E-mail:

Phone #: 713-271-4700 Fax #:

Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex

Street:

City: State:

Project #:

Client Purchase Order #:

Project Manager:

Billing Information (if different from Report to)

Company Name:

Street Address:

City State Zip:

Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1, V8015GRO,	LAB USE ONLY
29A	D13 @ 6		2/7/18	4:30:00 PM		SO	1					X				X	
30A	D13 @ 8		2/7/18	4:30:00 PM		SO	1					X				X	
32A	D14 @ 6		2/7/18	2:43:00 PM		SO	1					X				X	
33A	D14 @ 9		2/7/18	2:43:00 PM		SO	1					X				X	
34A	D15 @ 6		2/7/18	2:52:00 PM		SO	1					X				X	
35A	D15 @ 20		2/7/18	2:52:00 PM		SO	1					X				X	
36A	D16 @ 6		2/7/18	5:02:00 PM		SO	1					X				X	
37A	D16 @ 9		2/7/18	5:02:00 PM		SO	1					X				X	
38A	CD-1 @ 18		2/7/18	10:30:00 AM		SO	1					X				X	
40A	CD-2 @ 6		2/7/18	2:40:00 PM		SO	1					X				X	
41A	CD-2 @ 12		2/7/18	2:40:00 PM		SO	1					X				X	
43A	CD-3 @ 4		2/7/18	5:10:00 PM		SO	1					X				X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☒ other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☒ Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Tir	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.
5		5			

6.1 6

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #

Bottle Order Control #

SGS Quote #

SGS Job # TD16439

Client / Reporting Information

Company Name: SGS North America Inc.

Street Address: 10165 Harwin Drive

City: Houston State: TX Zip: 77036

Project Contact: sylvia.garza@sgs.com E-mail:

Phone #: 713-271-4700 Fax #:

Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex

Street:

City: State:

Project #:

Client Purchase Order #:

Project Manager:

Billing Information (if different from Report to)

Company Name:

Street Address:

City State Zip:

Attention:

Requested Analysis (see TEST CODE sheet)

B8015DROORO1, V8015GRO ,

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE		LAB USE ONLY
44A	CD-3 @ 7		2/7/18	5:10:00 PM		SO	1					X				X	
45A	DUP-2		2/7/18	12:00:00 AM		SO	1					X				X	
46A	DUP-3		2/7/18	12:00:00 AM		SO	1					X				X	
47A	DUP-4		2/7/18	12:00:00 AM		SO	1					X				X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Tir	Received By:	Relinquished By:	Date Time:	Received By:
1		1	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.
5		5			

6.1 6

SGS Sample Receipt Summary

Job Number: TD16439 **Client:** SGS NORTH AMERICA **Project:** CJES STATE AB SWD

Date / Time Received: 2/11/2018 10:00:00 AM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.2/2.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	DV439;		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: TD16439

Client / Reporting Information

Company Name: SGS North America In.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: E-mail: sylvia.garza@sgs.com
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet): B8015DROOR01

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

	SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROOR01	LAB USE ONLY
1	1A	D-1 @ 6"		2/7/18	10:55:00 AM		SO	1					X				X	/
2	2A	D-1 @ 18"		2/7/18	10:55:00 AM		SO	1					X				X	/
3	3A	D2 @ 6"		2/7/18	11:17:00 AM		SO	1					X				X	/
4	4A	D2 @ 24		2/7/18	11:17:00 AM		SO	1					X				X	/
5	5A	D3 @ 6		2/7/18	11:40:00 AM		SO	1					X				X	/
6	6A	D3 @ 12		2/7/18	11:40:00 AM		SO	1					X				X	/
7	7A	D3 @ 28		2/7/18	11:40:00 AM		SO	1					X				(X) - HOLD	/
8	8A	D4 @ 6		2/7/18	12:05:00 PM		SO	1					X				X	/
9	9A	D4 @ 12		2/7/18	12:05:00 PM		SO	1					X				X	/
10	10A	D4 @ 28		2/7/18	12:05:00 PM		SO	1					X				(X) - HOLD	/
11	11A	D5 @ 6		2/7/18	12:17:00 PM		SO	1					X				X	/ RUSH
12	12A	D5 @ 12		2/7/18	12:17:00 PM		SO	1					X				X	/

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/16/2018

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions: LA
RUX 6 (7 B4)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 S. Barnes	2-11-18	1 SGS	2 SGS	2/11 0600	2 [signature]
3 [signature]	2/11 1000	3 [signature]	4		4
5 Relinquished by:	Date Time:	5 Received By:	Custody Seal # C50C	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp. 2.2 0V439

TD16439: Chain of Custody
Page 6 of 10

6.1
6

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX. 713-271-4770

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: TD16439

Client / Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8015DROORO1 -	LAB USE ONLY
13A	D5 @ 28		2/7/18	12:17:00 PM		SO	1					X				X	
14A	D6 @ 6		2/7/18	12:30:00 PM		SO	1					X				X	
15A	D6 @ 9		2/7/18	12:30:00 PM		SO	1					X				X	
16A	D7 @ 6		2/7/18	12:53:00 PM		SO	1					X				X	
17A	D7 @ 10		2/7/18	12:53:00 PM		SO	1					X				X	
18A	D8 @ 6		2/7/18	1:00:00 PM		SO	1					X				X	
19A	D8 @ 12		2/7/18	1:06:00 PM		SO	1					X				X	
20A	D8 @ 24		2/7/18	1:06:00 PM		SO	1					X				X	
21A	D9 @ 6		2/7/18	3:08:00 PM		SO	1					X				X	
22A	D9 @ 10		2/7/18	3:08:00 PM		SO	1					X				X	
23A	D10 @ 6		2/7/18	3:32:00 PM		SO	1					X				X	
24A	D10 @ 9		2/7/18	3:32:00 PM		SO	1					X				X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/15/2018

Approved By (SGS PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions: LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time	Received By:	Relinquished By:	Date Time:	Received By:
1	S. Ford	2-11-18 1400	1 SGS	2 SGS	2/11 0600	2 Eddie Castro
3	Eddie Castro	2/11 1900	3 Elyse	4		4
5			5			

Custody Seals: Intact / Not intact — Preserved where applicable: X — On Ice: — Cooler Temp: 2.2

CHAIN OF CUSTODY

SGS

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX. 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16439

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: E-mail: sylvia.garza@sgs.com
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MECH/Elv Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BB015/HOORO1	LAB USE ONLY
25A	D11 @ 6		2/7/18	4:00:00 PM		SO	1					X				X	
26A	D11 @ 9		2/7/18	4:00:00 PM		SO	1					X				X	
27A	D12 @ 6		2/7/18	4:24:00 PM		SO	1					X				X	
28A	D12 @ 9		2/7/18	4:24:00 PM		SO	1					X				X	
29A	D13 @ 6		2/7/18	4:30:00 PM		SO	1					X				X	
30A	D13 @ 8		2/7/18	4:30:00 PM		SO	1					X				X	
31A	D13 @ 20		2/7/18	4:30:00 PM		SO	1					X				X	
32A	D14 @ 6		2/7/18	2:43:00 PM		SO	1					X				X	
33A	D14 @ 9		2/7/18	2:43:00 PM		SO	1					X				X	
34A	D15 @ 6		2/7/18	2:52:00 PM		SO	1					X				X	
35A	D15 @ 20		2/7/18	2:52:00 PM		SO	1					X				X	
36A	D16 @ 6		2/7/18	5:02:00 PM		SO	1					X				X	

HOLD

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/15/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	S. Ramos	2-11-18 0900	1 SGS	2 SGS	2/11 0900	2 Eddie Costa
3	Eddie Costa	2/11 1000	3 Shearon	4	Date Time:	4
5	Relinquished by:	Date Time:	5 Received By:	Custody Seals: CSOC Intact / Not Intact	Preserved where Applicable	On Ice / Cooler Temp: 2.2

CHAIN OF CUSTODY

SGS

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16439

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: sylvia.garza@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	BB015ROORO1	LAB USE ONLY
37A	D16 @ 9		2/7/18	5:02:00 PM		SO	1					X				X	
38A	CD-1 @ 18		2/7/18	10:30:00 AM		SO	1					X				X	
39A	CD-1 @ 30		2/7/18	10:30:00 AM		SO	1					X				X	
40A	CD-2 @ 6		2/7/18	2:40:00 PM		SO	1					X				X	
41A	CD-2 @ 12		2/7/18	2:40:00 PM		SO	1					X				X	
42A	CD-2 @ 30		2/7/18	2:40:00 PM		SO	1					X				X	
43A	CD-3 @ 4		2/7/18	5:10:00 PM		SO	1					X				X	
44A	CD-3 @ 7		2/7/18	5:10:00 PM		SO	1					X				X	
45A	DUP-2		2/7/18	12:00:00 AM		SO	1					X				X	
46A	DUP-3		2/7/18	12:00:00 AM		SO	1					X				X	
47A	DUP-4		2/7/18	12:00:00 AM		SO	1					X				X	

+ HOLD
+ HOLD

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/16/2018

Emergency & Rush TIA data available VIA Labline

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time	Received By:	Relinquished By:	Date Time:	Received By:
1	S. Gomez	2-11-18 1409	1 SGS	2 SGS	2/11 0800	2
3		2/11 1000	3	4		4
5			5			

Custody Seal #: Intact / Not Intact | Preserved where applicable | On Ice | Cooler Temp. 2.2

Job Change Order: TD16439

Requested Date:	2/20/2018	**Received Date:**	2/9/2018
Account Name:	EnTech Consulting Corporation	**Due Date:**	2/26/2018
Project Description:	CJES State AB SWD #1/LEA Co,N Mex	**Deliverable:**	COMMB
CSR:	SylviaG	**TAT (Days):**	6

==========

Sample #: TD16439-13R, 39R

Dept:

TAT: 6

Change:
Login V8015GRO, B8015DROORO1

==========

Above Changes Per: Client

Date/Time: 2/20/2018 2:37:07 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

GC Volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1685-MB2	LA286044.D	1	02/12/18	MB	n/a	n/a	GLA1685

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-1A, TD16439-2A, TD16439-4A, TD16439-5A, TD16439-6A, TD16439-8A, TD16439-9A, TD16439-11A, TD16439-12A, TD16439-14A, TD16439-15A, TD16439-16A, TD16439-17A, TD16439-18A, TD16439-19A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.55	5.0	4.9	mg/kg	J

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	63-139%
540-36-3	1,4-Difluorobenzene	93%	52-140%

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1686-MB2	LA286110.D	1	02/13/18	MB	n/a	n/a	GLA1686

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-21A, TD16439-22A, TD16439-23A, TD16439-24A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	63-139%
540-36-3	1,4-Difluorobenzene	94%	52-140%

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1687-MB2	LA286180.D	1	02/13/18	MB	n/a	n/a	GLA1687

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-3A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A, TD16439-46A, TD16439-47A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	63-139%
540-36-3	1,4-Difluorobenzene	96%	52-140%

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1697-MB1	LA286698.D	1	02/21/18	SV	n/a	n/a	GLA1697

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	109%	63-139%
540-36-3	1,4-Difluorobenzene	101%	52-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1685-BS2	LA286040.D	1	02/12/18	MB	n/a	n/a	GLA1685
GLA1685-BSD2	LA286042.D	1	02/12/18	MB	n/a	n/a	GLA1685

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-1A, TD16439-2A, TD16439-4A, TD16439-5A, TD16439-6A, TD16439-8A, TD16439-9A, TD16439-11A, TD16439-12A, TD16439-14A, TD16439-15A, TD16439-16A, TD16439-17A, TD16439-18A, TD16439-19A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	50.4	101	50.9	102	1	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	100%	101%	63-139%
540-36-3	1,4-Difluorobenzene	102%	102%	52-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1686-BS2	LA286106.D	1	02/13/18	MB	n/a	n/a	GLA1686
GLA1686-BSD2	LA286108.D	1	02/13/18	MB	n/a	n/a	GLA1686

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-21A, TD16439-22A, TD16439-23A, TD16439-24A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	47.7	95	46.7	93	2	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	97%	63-139%
540-36-3	1,4-Difluorobenzene	98%	98%	52-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1687-BS2	LA286176.D	1	02/13/18	MB	n/a	n/a	GLA1687
GLA1687-BSD2	LA286178.D	1	02/13/18	MB	n/a	n/a	GLA1687

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-3A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A, TD16439-46A, TD16439-47A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	47.3	95	49.7	99	5	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	102%	63-139%
540-36-3	1,4-Difluorobenzene	102%	104%	52-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1697-BS1	LA286694.D	1	02/21/18	SV	n/a	n/a	GLA1697
GLA1697-BSD1	LA286696.D	1	02/21/18	SV	n/a	n/a	GLA1697

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	48.6	97	48.5	97	0	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	109%	107%	63-139%
540-36-3	1,4-Difluorobenzene	110%	109%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16439-1AMS	LA286050.D	1	02/12/18	MB	n/a	n/a	GLA1685
TD16439-1AMSD	LA286052.D	1	02/12/18	MB	n/a	n/a	GLA1685
TD16439-1A	LA286048.D	1	02/12/18	MB	n/a	n/a	GLA1685

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-1A, TD16439-2A, TD16439-4A, TD16439-5A, TD16439-6A, TD16439-8A, TD16439-9A, TD16439-11A, TD16439-12A, TD16439-14A, TD16439-15A, TD16439-16A, TD16439-17A, TD16439-18A, TD16439-19A

CAS No.	Compound	TD16439-1A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		250	216	86	250	229	92	6	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16439-1A	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	92%	63-139%
540-36-3	1,4-Difluorobenzene	102%	100%	94%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16439-37AMS	LA286160.D	1	02/13/18	MB	n/a	n/a	GLA1686
TD16439-37AMSD	LA286162.D	1	02/13/18	MB	n/a	n/a	GLA1686
TD16439-37A	LA286152.D	1	02/13/18	MB	n/a	n/a	GLA1686

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-21A, TD16439-22A, TD16439-23A, TD16439-24A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A

CAS No.	Compound	TD16439-37A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		112	107	95	112	105	93	2	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16439-37A	Limits
460-00-4	4-Bromofluorobenzene	99%	100%	95%	63-139%
540-36-3	1,4-Difluorobenzene	102%	104%	94%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16439-47AMS	LA286206.D	1	02/13/18	MB	n/a	n/a	GLA1687
TD16439-47AMSD	LA286208.D	1	02/13/18	MB	n/a	n/a	GLA1687
TD16439-47A	LA286202.D	1	02/13/18	MB	n/a	n/a	GLA1687

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-3A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A, TD16439-46A, TD16439-47A

CAS No.	Compound	TD16439-47A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		221	190	86	221	192	87	1	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16439-47A	Limits
460-00-4	4-Bromofluorobenzene	104%	103%	97%	63-139%
540-36-3	1,4-Difluorobenzene	106%	105%	97%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
LA41435-1AMS	LA286728.D	1	02/21/18	SV	n/a	n/a	GLA1697
LA41435-1AMSD	LA286730.D	1	02/21/18	SV	n/a	n/a	GLA1697
LA41435-1A	LA286716.D	1	02/21/18	SV	n/a	n/a	GLA1697

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	LA41435-1A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	1690		982	3090	143*	982	3360	170*	8*	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	LA41435-1A	Limits
460-00-4	4-Bromofluorobenzene	114%	132%	122%	63-139%
540-36-3	1,4-Difluorobenzene	104%	103%	101%	52-140%

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10476-MB	S0004749.D	1	02/13/18	JT	02/13/18	OP10476	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-1A, TD16439-2A, TD16439-3A, TD16439-4A, TD16439-5A, TD16439-6A, TD16439-8A, TD16439-9A, TD16439-11A, TD16439-12A, TD16439-14A, TD16439-16A, TD16439-17A, TD16439-18A, TD16439-19A, TD16439-21A, TD16439-22A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.51	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	74%	31-130%

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10477-MB	S0004775.D	1	02/13/18	JT	02/13/18	OP10477	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-23A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.58	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	31-130%

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MB	S0004826.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-46A, TD16439-47A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.59	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	31-130%

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10485-MB	S0004868.D	1	02/15/18	JT	02/14/18	OP10485	GLG615

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-15A, TD16439-24A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.57	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	31-130%

Method Blank Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-MB	S0005074.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.83	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	82%	31-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10476-BS1	S0004750.D	1	02/13/18	JT	02/13/18	OP10476	GLG613
OP10476-BSD1	S0004751.D	1	02/13/18	JT	02/13/18	OP10476	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-1A, TD16439-2A, TD16439-3A, TD16439-4A, TD16439-5A, TD16439-6A, TD16439-8A, TD16439-9A, TD16439-11A, TD16439-12A, TD16439-14A, TD16439-16A, TD16439-17A, TD16439-18A, TD16439-19A, TD16439-21A, TD16439-22A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	103	86	105	88	2	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	68%	66%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10476-BS2	S0004752.D	1	02/13/18	JT	02/13/18	OP10476	GLG613
OP10476-BSD2	S0004753.D	1	02/13/18	JT	02/13/18	OP10476	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-1A, TD16439-2A, TD16439-3A, TD16439-4A, TD16439-5A, TD16439-6A, TD16439-8A, TD16439-9A, TD16439-11A, TD16439-12A, TD16439-14A, TD16439-16A, TD16439-17A, TD16439-18A, TD16439-19A, TD16439-21A, TD16439-22A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	120	80	125	83	4	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	74%	73%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10477-BS1	S0004776.D	1	02/13/18	JT	02/13/18	OP10477	GLG613
OP10477-BSD1	S0004777.D	1	02/13/18	JT	02/13/18	OP10477	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-23A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	117	98	110	92	6	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	77%	73%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10477-BS2	S0004778.D	1	02/13/18	JT	02/13/18	OP10477	GLG613
OP10477-BSD2	S0004779.D	1	02/14/18	JT	02/13/18	OP10477	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-23A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	122	81	135	90	10	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	74%	76%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-BS1	S0004827.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
OP10484-BSD	S0004828.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-46A, TD16439-47A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	111	93	118	98	6	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	75%	77%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-BS2	S0004829.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
OP10484-BSD2	S0004830.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-46A, TD16439-47A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	131	87	130	87	1	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	72%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10485-BS1	S0004869.D	1	02/15/18	JT	02/14/18	OP10485	GLG615
OP10485-BSD1	S0004870.D	1	02/15/18	JT	02/14/18	OP10485	GLG615

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-15A, TD16439-24A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	112	93	110	92	2	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	71%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10485-BS2	S0004871.D	1	02/15/18	JT	02/14/18	OP10485	GLG615
OP10485-BSD2	S0004872.D	1	02/15/18	JT	02/14/18	OP10485	GLG615

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-15A, TD16439-24A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	109	73	118	79	8	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	68%	73%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-BS1	S0005075.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-BSD1	S0005076.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	75.4	63	122	102	47*	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	51%	80%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-BS2	S0005077.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-BSD2	S0005078.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	120	80	121	81	1	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	77%	81%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10477-MS1	S0004788.D	1	02/14/18	JT	02/13/18	OP10477	GLG613
TD16439-23A	S0004790.D	1	02/14/18	JT	02/13/18	OP10477	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-23A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A

CAS No.	Compound	TD16439-23A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (C10-C22)	2.79	J	127	96.2	74	57-119

CAS No.	Surrogate Recoveries	MS	TD16439-23A	Limits
84-15-1	o-Terphenyl	67%	49%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10477-MS2	S0004789.D	1	02/14/18	JT	02/13/18	OP10477	GLG613
TD16439-23A	S0004790.D	1	02/14/18	JT	02/13/18	OP10477	GLG613

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-23A, TD16439-25A, TD16439-26A, TD16439-27A, TD16439-28A, TD16439-29A, TD16439-30A, TD16439-32A, TD16439-33A, TD16439-34A, TD16439-35A, TD16439-36A, TD16439-37A, TD16439-38A, TD16439-40A, TD16439-41A, TD16439-43A, TD16439-44A, TD16439-45A

CAS No.	Compound	TD16439-23A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (> C22-C36)	4.10	J	160	110	66	55-117

CAS No.	Surrogate Recoveries	MS	TD16439-23A	Limits
84-15-1	o-Terphenyl	58%	49%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MS1	S0004839.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
TD16439-46A	S0004831.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-46A, TD16439-47A

CAS No.	Compound	TD16439-46A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (C10-C22)	19.4		129	127	84	57-119

CAS No.	Surrogate Recoveries	MS	TD16439-46A	Limits
84-15-1	o-Terphenyl	76%	66%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MS2	S0004840.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
TD16439-46A	S0004831.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-46A, TD16439-47A

CAS No.	Compound	TD16439-46A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (> C22-C36)	69.1		162	144	46*	55-117

CAS No.	Surrogate Recoveries	MS	TD16439-46A	Limits
84-15-1	o-Terphenyl	64%	66%	31-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-MS1	S0005092.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-MSD1	S0005093.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
TD16424-9R	S0005079.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	TD16424-9R mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	9.31		129	131	94	130	142	102	8	57-119/30

CAS No.	Surrogate Recoveries	MS	MSD	TD16424-9R	Limits
84-15-1	o-Terphenyl	83%	82%	87%	31-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16439
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10558-MS2	S0005094.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
OP10558-MSD2	S0005095.D	1	02/22/18	JT	02/21/18	OP10558	GLG620
TD16424-9R	S0005079.D	1	02/22/18	JT	02/21/18	OP10558	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16439-13R, TD16439-39R

CAS No.	Compound	TD16424-9R mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	42.1		164	153	68	163	162	74	6	55-117/25

CAS No.	Surrogate Recoveries	MS	MSD	TD16424-9R	Limits
84-15-1	o-Terphenyl	81%	79%	87%	31-130%

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EnTech Consulting Corporation

CJES State AB SWD #1/LEA Co,N Mex

SGS Job Number: TD16465

Sampling Date: 02/08/18

Report to:

EnTech Consulting Corporation
21 Waterway Ave, Suite 300
The Woodlands, TX 77380
chan.patel@entechservice.com; pete.schram@entechservice.com

ATTN: Chan Patel

Total number of pages in report: 60

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Richard Rodriguez
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-18-28) AR (14-016-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) NJ (TX010) OK (2017-002) VA (8999)

Sections: 1 2 3 4 5 6 7 8 9

Table of Contents

Sample Summary

EnTech Consulting Corporation

Job No: TD16465

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16465-1	02/08/18	07:50		02/10/18	SO	Soil	SP-1(A)
TD16465-2	02/08/18	07:53		02/10/18	SO	Soil	SP-1(B)
TD16465-3	02/08/18	07:57		02/10/18	SO	Soil	SP-1(C)
TD16465-4	02/08/18	08:09		02/10/18	SO	Soil	SP-2(A)
TD16465-5	02/08/18	08:13		02/10/18	SO	Soil	SP-2(B)
TD16465-6	02/08/18	08:21		02/10/18	SO	Soil	SP-2(C)
TD16465-7	02/08/18	00:00		02/10/18	SO	Soil	DUP-5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: TD16465
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16465-1	**SP-1(A)**					
Benzene [a]		0.42 J	0.50	0.35	ug/kg	SW846 8260B
Toluene [a]		1.0 J	5.0	0.46	ug/kg	SW846 8260B
TPH (> C22-C36) [a]		3.00 J	5.4	2.7	mg/kg	SW846 8015C
Chloride		6.7	5.3		mg/kg	EPA 300.0
TD16465-2	**SP-1(B)**					
Benzene [b]		0.74	0.53	0.37	ug/kg	SW846 8260B
Toluene [b]		2.1 J	5.3	0.49	ug/kg	SW846 8260B
Ethylbenzene [b]		0.77 J	1.1	0.62	ug/kg	SW846 8260B
Xylene (total) [b]		1.5 J	2.1	1.2	ug/kg	SW846 8260B
TPH-GRO (C6-C10) [a]		12.7	6.0	6.0	mg/kg	SW846 8015C
TPH (C10-C22) [a]		81.2	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		196	5.3	2.6	mg/kg	SW846 8015C
Chloride		1030	53		mg/kg	EPA 300.0
TD16465-3	**SP-1(C)**					
Benzene [a]		0.51 J	0.54	0.38	ug/kg	SW846 8260B
Toluene [a]		0.86 J	5.4	0.50	ug/kg	SW846 8260B
TPH (C10-C22) [a]		19.6	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		187	5.4	2.7	mg/kg	SW846 8015C
Chloride		558	11		mg/kg	EPA 300.0
TD16465-4	**SP-2(A)**					
Benzene [a]		0.42 J	0.53	0.37	ug/kg	SW846 8260B
Toluene [a]		1.1 J	5.3	0.50	ug/kg	SW846 8260B
TPH-GRO (C6-C10) [a]		6.40	5.7	5.6	mg/kg	SW846 8015C
TPH (C10-C22) [a]		3.44 J	5.5	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		5.75	5.5	2.8	mg/kg	SW846 8015C
Chloride		16500	550		mg/kg	EPA 300.0
TD16465-5	**SP-2(B)**					
Benzene [a]		0.53	0.51	0.36	ug/kg	SW846 8260B
Toluene [a]		1.1 J	5.1	0.48	ug/kg	SW846 8260B
TPH (C10-C22) [a]		14.1	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		35.0	5.4	2.7	mg/kg	SW846 8015C
Chloride		21100	540		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16465
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16465-6	**SP-2(C)**					
TPH (C10-C22) [a]		236	5.3	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		469	5.3	2.7	mg/kg	SW846 8015C
Chloride		15700	530		mg/kg	EPA 300.0
TD16465-7	**DUP-5**					
Toluene [a]		4.3 J	4.9	0.46	ug/kg	SW846 8260B
Xylene (total) [a]		1.2 J	2.0	1.1	ug/kg	SW846 8260B
TPH-GRO (C6-C10) [a]		5.85	5.8	5.7	mg/kg	SW846 8015C
TPH (C10-C22) [a]		2.74 J	5.1	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		4.81 J	5.1	2.5	mg/kg	SW846 8015C
Chloride		6.5	5.2		mg/kg	EPA 300.0

(a) Analysis performed at SGS Scott, LA.
(b) Internal standards are not within control limits due to matrix interference. Confirmed by reanalysis. Analysis performed at SGS Scott, LA.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SP-1(A)		
Lab Sample ID:	TD16465-1	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8260B SW846 5035	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2H0044109.D	1	02/17/18 02:57	ALA	02/10/18 17:00	n/a	L:V2H1528
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.42	0.50	0.35	ug/kg	J
108-88-3	Toluene	1.0	5.0	0.46	ug/kg	J
100-41-4	Ethylbenzene	ND	1.0	0.58	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		59-143%
2037-26-5	Toluene-D8	102%		52-159%
460-00-4	4-Bromofluorobenzene	102%		38-183%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(A)		
Lab Sample ID:	TD16465-1	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036413.D	1	02/14/18 13:27	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	89%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(A)		
Lab Sample ID:	TD16465-1	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004833.D	1	02/14/18 19:00	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.4	2.7	mg/kg	
	TPH (> C22-C36)	3.00	5.4	2.7	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(A)		
Lab Sample ID:	TD16465-1	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	6.7	5.3	mg/kg	1	02/20/18 10:11	LR	EPA 300.0
Solids, Percent	92.8		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-1(B)		
Lab Sample ID:	TD16465-2	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8260B SW846 5035	**Percent Solids:**	94.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1H0044183.D	1	02/19/18 05:24	ALA	02/10/18 17:00	n/a	L:V1H1532
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.74	0.53	0.37	ug/kg	
108-88-3	Toluene	2.1	5.3	0.49	ug/kg	J
100-41-4	Ethylbenzene	0.77	1.1	0.62	ug/kg	J
1330-20-7	Xylene (total)	1.5	2.1	1.2	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		59-143%
2037-26-5	Toluene-D8	97%		52-159%
460-00-4	4-Bromofluorobenzene	91%		38-183%

(a) Internal standards are not within control limits due to matrix interference. Confirmed by reanalysis. Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(B)		
Lab Sample ID:	TD16465-2	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	94.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036414.D	1	02/14/18 13:58	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.60 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	12.7	6.0	6.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	87%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(B)		
Lab Sample ID:	TD16465-2	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004857.D	1	02/15/18 03:29	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	81.2	5.3	2.6	mg/kg	
	TPH (> C22-C36)	196	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(B)		
Lab Sample ID:	TD16465-2	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	94.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1030	53	mg/kg	10	02/20/18 10:59	LR	EPA 300.0
Solids, Percent	94.5		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-1(C)		
Lab Sample ID:	TD16465-3	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8260B SW846 5035	**Percent Solids:**	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2H0044111.D	1	02/17/18 03:45	ALA	02/10/18 17:00	n/a	L:V2H1528
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.51	0.54	0.38	ug/kg	J
108-88-3	Toluene	0.86	5.4	0.50	ug/kg	J
100-41-4	Ethylbenzene	ND	1.1	0.63	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		59-143%
2037-26-5	Toluene-D8	100%		52-159%
460-00-4	4-Bromofluorobenzene	94%		38-183%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(C)		
Lab Sample ID:	TD16465-3	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036415.D	1	02/14/18 14:29	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.40 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	5.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(C)		
Lab Sample ID:	TD16465-3	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004858.D	1	02/15/18 03:51	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	19.6	5.4	2.7	mg/kg	
	TPH (> C22-C36)	187	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-1(C)		
Lab Sample ID:	TD16465-3	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	92.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	558	11	mg/kg	2	02/20/18 11:15	LR	EPA 300.0
Solids, Percent	92.3		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-2(A)		
Lab Sample ID:	TD16465-4	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8260B SW846 5035	**Percent Solids:**	90.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2H0044112.D	1	02/17/18 04:09	ALA	02/10/18 17:00	n/a	L:V2H1528
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.42	0.53	0.37	ug/kg	J
108-88-3	Toluene	1.1	5.3	0.50	ug/kg	J
100-41-4	Ethylbenzene	ND	1.1	0.62	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		59-143%
2037-26-5	Toluene-D8	102%		52-159%
460-00-4	4-Bromofluorobenzene	96%		38-183%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(A)		
Lab Sample ID:	TD16465-4	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	90.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036416.D	1	02/14/18 15:00	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.40 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.40	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		63-139%
540-36-3	1,4-Difluorobenzene	87%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(A)		
Lab Sample ID:	TD16465-4	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	90.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004834.D	1	02/14/18 19:20	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.44	5.5	2.8	mg/kg	J
	TPH (> C22-C36)	5.75	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(A)		
Lab Sample ID:	TD16465-4	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	90.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	16500	550	mg/kg	100	02/20/18 11:31	LR	EPA 300.0
Solids, Percent	90.4		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-2(B)		
Lab Sample ID:	TD16465-5	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8260B SW846 5035	**Percent Solids:**	91.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2H0044113.D	1	02/17/18 04:33	ALA	02/10/18 17:00	n/a	L:V2H1528
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.53	0.51	0.36	ug/kg	
108-88-3	Toluene	1.1	5.1	0.48	ug/kg	J
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		59-143%
2037-26-5	Toluene-D8	100%		52-159%
460-00-4	4-Bromofluorobenzene	96%		38-183%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(B)		
Lab Sample ID:	TD16465-5	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	91.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036417.D	1	02/14/18 15:30	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.80 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.1	5.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	86%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(B)		
Lab Sample ID:	TD16465-5	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004835.D	1	02/14/18 19:41	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	14.1	5.4	2.7	mg/kg	
	TPH (> C22-C36)	35.0	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(B)		
Lab Sample ID:	TD16465-5	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	91.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	21100	540	mg/kg	100	02/20/18 11:47	LR	EPA 300.0
Solids, Percent	91.9		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-2(C)		
Lab Sample ID:	TD16465-6	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8260B SW846 5035	**Percent Solids:**	93.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1H0044184.D	1	02/19/18 05:48	ALA	02/10/18 17:00	n/a	L:V1H1532
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.35	ug/kg	
108-88-3	Toluene	ND	5.0	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	0.99	0.58	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	133%		59-143%
2037-26-5	Toluene-D8	102%		52-159%
460-00-4	4-Bromofluorobenzene	107%		38-183%

(a) Internal standards are not within control limits due to matrix interference. Confirmed by reanalysis. Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(C)		
Lab Sample ID:	TD16465-6	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	93.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036418.D	1	02/14/18 16:01	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.30 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.4	5.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	87%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(C)		
Lab Sample ID:	TD16465-6	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004841.D	1	02/14/18 21:47	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	236	5.3	2.7	mg/kg	
	TPH (> C22-C36)	469	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-2(C)		
Lab Sample ID:	TD16465-6	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	93.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	15700	530	mg/kg	100	02/20/18 12:03	LR	EPA 300.0
Solids, Percent	93.4		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-5		
Lab Sample ID:	TD16465-7	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8260B SW846 5035	**Percent Solids:**	96.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2H0044115.D	1	02/17/18 05:21	ALA	02/10/18 17:00	n/a	L:V2H1528
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.49	0.34	ug/kg	
108-88-3	Toluene	4.3	4.9	0.46	ug/kg	J
100-41-4	Ethylbenzene	ND	0.98	0.57	ug/kg	
1330-20-7	Xylene (total)	1.2	2.0	1.1	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		59-143%
2037-26-5	Toluene-D8	100%		52-159%
460-00-4	4-Bromofluorobenzene	102%		38-183%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-5		
Lab Sample ID:	TD16465-7	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	96.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036421.D	1	02/14/18 17:32	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.60 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	5.85	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-139%
540-36-3	1,4-Difluorobenzene	89%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-5		
Lab Sample ID:	TD16465-7	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004842.D	1	02/14/18 22:10	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.74	5.1	2.5	mg/kg	J
	TPH (> C22-C36)	4.81	5.1	2.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-5		
Lab Sample ID:	TD16465-7	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	96.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	6.5	5.2	mg/kg	1	02/20/18 12:50	LR	EPA 300.0
Solids, Percent	96.4		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST — CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
SGS Accutest Quote # | SGS Accutest Job # TD16465

Client / Reporting Information

Company Name: ENTECH CONSTRUCTION CORP
Street Address: 21 WATERWAY AVE #300
City / State / Zip: THE WOODLANDS TX
Project Contact: PETE SCHRAM | E-mail: pete.schram@entechservices.com
Phone #: 210-372-7331 | Fax #:
Sampler(s) Name(s): PETE SCHRAM | Phone #:

Project Information

Project Name: CJES STATE AB 3200 #1
Street: LEA Co. NM
City / State:
Project #:
Client Purchase Order #:
Project Manager: CHAN PATEL

Billing Information (if different from Report to)

Company Name: ENTECH CONSTRUCTION CORP
Street Address: 21 WATERWAY AVE #300
City / State / Zip: THE WOODLANDS TX
Attention: CHAN PATEL

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	Zn/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX Method 8260	TPH Method 8015 Ext (GRO/DRO)	Cl- Method 300.0	HOLD FOR ANALYSIS	LAB USE ONLY
1	SP-1(A)	2/8/18	750	PJ3	S	1						✓							✓	✓	✓		
2	SP-1(B)		753									✓							✓	✓	✓		
3	SP-1(C)		757									✓							✓	✓	✓		
4	SP-2(A)		809									✓							✓	✓	✓		
5	SP-2(B)		813									✓							✓	✓	✓		
6	SP-2(C)		821									✓							✓	✓	✓		
7	DUP-5	2/8/18	—	PJ3	S	1						✓							✓	✓	✓		
8	SP-3(A)		930									✓							✓	✓	✓		
9	SP-3(B)		935									✓							✓	✓	✓		
10	SP-3(C)		939									✓							✓	✓	✓		
11	SP-4(6)		1035									✓							✓	✓	✓		
12	COMPOSITE	2/8/18	1035	PJB	S	3						✓							✓	✓	✓		

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1		2/9/18 12:00	1 Jason Fisher	8/9/18 12:00	2 Jason Fisher	8/9/18 14:00	2	
3		2-10-18 1015	3	2/10/18 1015	4		4	
5	Relinquished by:	Date Time:	Received By:	Date Time:	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp

TD16465: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: TD16465 **Client:** ENTECH **Project:** CJES STATE AB

Date / Time Received: **Delivery Method:** **Airbill #'s:**

No. Coolers: 1 **Therm ID:** IR-5; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (2/2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		

Quality Control Preservation	Y	or	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐		☐	☑	☐	☐
2. Trip Blank listed on COC:	☐		☐	☑		
3. Samples preserved properly:	☑		☐			
4. VOCs headspace free:	☐		☐	☑		

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments Subsampled into 1-2oz container for wet chem for all samples.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16465
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP46351/GN87921	5.0	0.0	mg/kg	100	95.7	95.7	90-110%

Associated Samples:
Batch GP46351: TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16465
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP46351/GN87921	TD16465-1	mg/kg	6.7	11.9	55.9(a)	0-20%
Solids, Percent	GN87743	TD16465-1	%	92.8	92.7	0.1	0-5%

Associated Samples:
Batch GN87743: TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7
Batch GP46351: TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16465
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP46351/GN87921	TD16465-1	mg/kg	6.7	107	106	92.7	80-120%

Associated Samples:
Batch GP46351: TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Scott, LA)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS

10165 Harwin Drive, Houston, TX 77036
TEL 713-271-4700 FAX: 713-271-4770
www.sgs.com

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16465

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: Trameshia.Brown@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

B8015DROORO1, V5035SPM, V8015GRO, V8260BTX

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	SP-1(A)		2/8/18	7:50:00 AM		SO	1					x				X
2	SP-1(B)		2/8/18	7:53:00 AM		SO	1					x				X
3	SP-1(C)		2/8/18	7:57:00 AM		SO	1					x				X
4	SP-2(A)		2/8/18	8:09:00 AM		SO	1					x				X
5	SP-2(B)		2/8/18	8:13:00 AM		SO	1					x				X
6	SP-2(C)		2/8/18	8:21:00 AM		SO	1					x				X
7	DUP-5		2/8/18	12:00:00 AM		SO	1					x				X

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/19/2018

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

LA
VS(RSL44) +A3(RRM24)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: S. Jones	Date Time: 2-14-18 1604	Received By: 1 SGS	Relinquished By: 2 SGS	Date Time:	Received By: 2
Relinquished by Sampler: 3	Date Time: 2/21/18 2300	Received By: 3 Walter Newkam	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # CS/OC ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 2.0dv 4d

6.1 6

SGS Sample Receipt Summary

Job Number: TD16465 **Client:** SGS NORTH AMERICA **Project:** CJES STATE AB SWD#1/LEA

Date / Time Received: 2/13/2018 8:15:00 AM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	DV441;		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

TD16465: Chain of Custody
Page 2 of 2

MS Volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2H1528-MB1	2H0044101.D	1	02/17/18	NN	n/a	n/a	V2H1528

The QC reported here applies to the following samples: **Method:** SW846 8260B

TD16465-1, TD16465-3, TD16465-4, TD16465-5, TD16465-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.35	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.58	ug/kg	
108-88-3	Toluene	ND	5.0	0.47	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.2	ug/kg	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	103%	59-143%
2037-26-5	Toluene-D8	102%	52-159%
460-00-4	4-Bromofluorobenzene	105%	38-183%

Method Blank Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1H1532-MB1	1H0044168.D	1	02/18/18	PJ	n/a	n/a	V1H1532

The QC reported here applies to the following samples: **Method:** SW846 8260B

TD16465-2, TD16465-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.35	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.58	ug/kg	
108-88-3	Toluene	ND	5.0	0.47	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	1.2	ug/kg	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	99%	59-143%
2037-26-5	Toluene-D8	103%	52-159%
460-00-4	4-Bromofluorobenzene	103%	38-183%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2H1528-BS1	2H0044097.D	1	02/16/18	NN	n/a	n/a	V2H1528
V2H1528-BSD1	2H0044099.D	1	02/17/18	NN	n/a	n/a	V2H1528

The QC reported here applies to the following samples: **Method:** SW846 8260B

TD16465-1, TD16465-3, TD16465-4, TD16465-5, TD16465-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.1	96	18.7	94	2	67-135/30
100-41-4	Ethylbenzene	20	18.3	92	18.8	94	3	69-136/30
108-88-3	Toluene	20	17.9	90	18.0	90	1	71-135/30
1330-20-7	Xylene (total)	60	57.0	95	57.2	95	0	69-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4	96%	99%	59-143%
2037-26-5	Toluene-D8	99%	100%	52-159%
460-00-4	4-Bromofluorobenzene	104%	104%	38-183%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1H1532-BS1	1H0044165.D	1	02/18/18	PJ	n/a	n/a	V1H1532
V1H1532-BSD1	1H0044166.D	1	02/18/18	PJ	n/a	n/a	V1H1532

The QC reported here applies to the following samples: **Method:** SW846 8260B

TD16465-2, TD16465-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	17.0	85	17.7	89	4	67-135/30
100-41-4	Ethylbenzene	20	17.7	89	17.5	88	1	69-136/30
108-88-3	Toluene	20	17.2	86	17.4	87	1	71-135/30
1330-20-7	Xylene (total)	60	54.0	90	54.9	92	2	69-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4	96%	98%	59-143%
2037-26-5	Toluene-D8	99%	99%	52-159%
460-00-4	4-Bromofluorobenzene	106%	101%	38-183%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1644-MB2	LC036412.D	1	02/14/18	MB	n/a	n/a	GLC1644

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	63-139%
540-36-3	1,4-Difluorobenzene	87%	52-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1644-BS2	LC036410.D	1	02/14/18	MB	n/a	n/a	GLC1644
GLC1644-BSD2	LC036411.D	1	02/14/18	MB	n/a	n/a	GLC1644

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	47.0	94	46.4	93	1	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	95%	63-139%
540-36-3	1,4-Difluorobenzene	92%	91%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16465-7MS	LC036437.D	1	02/15/18	MB	n/a	n/a	GLC1644
TD16465-7MSD	LC036438.D	1	02/15/18	MB	n/a	n/a	GLC1644
TD16465-7	LC036421.D	1	02/14/18	MB	n/a	n/a	GLC1644

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	TD16465-7 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	5.85		233	202	84	233	199	83	1	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16465-7	Limits
460-00-4	4-Bromofluorobenzene	98%	97%	98%	63-139%
540-36-3	1,4-Difluorobenzene	94%	93%	89%	52-140%

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MB	S0004826.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.59	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	31-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-BS1	S0004827.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
OP10484-BSD	S0004828.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	111	93	118	98	6	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	75%	77%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-BS2	S0004829.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
OP10484-BSD2	S0004830.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	131	87	130	87	1	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	72%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MS1	S0004839.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
TD16439-46A	S0004831.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	TD16439-46A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (C10-C22)	19.4		129	127	84	57-119

CAS No.	Surrogate Recoveries	MS	TD16439-46A	Limits
84-15-1	o-Terphenyl	76%	66%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16465
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MS2	S0004840.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
TD16439-46A	S0004831.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16465-1, TD16465-2, TD16465-3, TD16465-4, TD16465-5, TD16465-6, TD16465-7

CAS No.	Compound	TD16439-46A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (> C22-C36)	69.1		162	144	46*	55-117

CAS No.	Surrogate Recoveries	MS	TD16439-46A	Limits
84-15-1	o-Terphenyl	64%	66%	31-130%

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EnTech Consulting Corporation

CJES State AB SWD #1/LEA Co,N Mex

SGS Job Number: TD16466

Sampling Date: 02/08/18

Report to:

EnTech Consulting Corporation
21 Waterway Ave, Suite 300
The Woodlands, TX 77380
chan.patel@entechservice.com; pete.schram@entechservice.com

ATTN: Chan Patel

Total number of pages in report: **107**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Richard Rodriguez
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-18-28) AR (14-016-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) NJ (TX010) OK (2017-002) VA (8999)

Sections: 1 2 3 4 5 6 7 8

Table of Contents

SGS North America Inc.

Sample Summary

EnTech Consulting Corporation

Job No: TD16466

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16466-1	02/08/18	09:35	PS	02/10/18	SO	Soil	CD-4@6
TD16466-2	02/08/18	09:35	PS	02/10/18	SO	Soil	CD-4@18
TD16466-3	02/08/18	09:35	PS	02/10/18	SO	Soil	CD-4@30
TD16466-4	02/08/18	10:35	PS	02/10/18	SO	Soil	CD-5@6
TD16466-5	02/08/18	10:35	PS	02/10/18	SO	Soil	CD-5@16
TD16466-6	02/08/18	10:35	PS	02/10/18	SO	Soil	CD-5@28
TD16466-7	02/08/18	13:47	PS	02/10/18	SO	Soil	CD-6@6
TD16466-8	02/08/18	13:47	PS	02/10/18	SO	Soil	CD-6@8
TD16466-9	02/08/18	13:58	PS	02/10/18	SO	Soil	CD-7@6
TD16466-10	02/08/18	13:58	PS	02/10/18	SO	Soil	CD-7@8
TD16466-11	02/08/18	10:16	PS	02/10/18	SO	Soil	D-17@6
TD16466-12	02/08/18	10:16	PS	02/10/18	SO	Soil	D-17@16
TD16466-13	02/08/18	11:00	PS	02/10/18	SO	Soil	D-18@6

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16466

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16466-14	02/08/18	11:00	PS	02/10/18	SO	Soil	D-18@24
TD16466-15	02/08/18	11:00	PS	02/10/18	SO	Soil	D-18@28
TD16466-15R	02/08/18	11:00	PS	02/10/18	SO	Soil	D-18@28
TD16466-16	02/08/18	11:11	PS	02/10/18	SO	Soil	D-19@6
TD16466-17	02/08/18	11:11	PS	02/10/18	SO	Soil	D-19@18
TD16466-18	02/08/18	11:11	PS	02/10/18	SO	Soil	D-19@30
TD16466-18A	02/08/18	11:11	PS	02/10/18	SO	Soil	D-19@30
TD16466-19	02/08/18	12:53	PS	02/10/18	SO	Soil	D-20@6
TD16466-20	02/08/18	12:53	PS	02/10/18	SO	Soil	D-20@13
TD16466-21	02/08/18	13:02	PS	02/10/18	SO	Soil	D-21@6
TD16466-22	02/08/18	13:02	PS	02/10/18	SO	Soil	D-21@13
TD16466-23	02/08/18	00:00	PS	02/10/18	SO	Soil	DUP-9
TD16466-24	02/08/18	00:00	PS	02/10/18	SO	Soil	DUP-10

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: TD16466
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16466-1	**CD-4@6**					
TPH-GRO (C6-C10) [a]		5.75	5.7	5.6	mg/kg	SW846 8015C
TPH (C10-C22) [a]		2.82 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		6.69	5.2	2.6	mg/kg	SW846 8015C
Chloride		78.6	5.3		mg/kg	EPA 300.0
TD16466-2	**CD-4@18**					
TPH-GRO (C6-C10) [a]		6.60	6.1	6.0	mg/kg	SW846 8015C
TPH (C10-C22) [a]		3.39 J	5.5	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		6.42	5.5	2.7	mg/kg	SW846 8015C
Chloride		84.8	5.6		mg/kg	EPA 300.0
TD16466-4	**CD-5@6**					
TPH-GRO (C6-C10) [a]		7.20	6.5	6.4	mg/kg	SW846 8015C
TPH (C10-C22) [a]		4.41 J	5.5	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		25.1	5.5	2.8	mg/kg	SW846 8015C
Chloride		191	11		mg/kg	EPA 300.0
TD16466-5	**CD-5@16**					
TPH-GRO (C6-C10) [a]		6.69	6.5	6.4	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		4.08 J	5.8	2.9	mg/kg	SW846 8015C
Chloride		44.2	5.9		mg/kg	EPA 300.0
TD16466-7	**CD-6@6**					
TPH-GRO (C6-C10) [a]		5.64	5.6	5.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		3.36 J	5.4	2.7	mg/kg	SW846 8015C
Chloride		25.7	5.4		mg/kg	EPA 300.0
TD16466-8	**CD-6@8**					
TPH (C10-C22) [a]		3.92 J	6.1	3.1	mg/kg	SW846 8015C
Chloride		80.8	6.3		mg/kg	EPA 300.0
TD16466-9	**CD-7@6**					
TPH (C10-C22) [a]		4.19 J	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		4.85 J	5.2	2.6	mg/kg	SW846 8015C
Chloride		38.9	5.2		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16466
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16466-10	**CD-7@8**					
TPH (C10-C22) [a]		7.04	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		8.36	5.2	2.6	mg/kg	SW846 8015C
Chloride		210	10		mg/kg	EPA 300.0
TD16466-11	**D-17@6**					
TPH (C10-C22) [a]		5.63 J	5.9	3.0	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		14.7	5.9	3.0	mg/kg	SW846 8015C
Chloride		355	30		mg/kg	EPA 300.0
TD16466-12	**D-17@16**					
TPH (C10-C22) [a]		43.7	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		154	5.4	2.7	mg/kg	SW846 8015C
Chloride		260	27		mg/kg	EPA 300.0
TD16466-13	**D-18@6**					
TPH (C10-C22) [a]		8.87	5.5	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		26.5	5.5	2.7	mg/kg	SW846 8015C
Chloride		600	55		mg/kg	EPA 300.0
TD16466-14	**D-18@24**					
TPH (C10-C22) [a]		12.8	5.7	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		33.8	5.7	2.8	mg/kg	SW846 8015C
Chloride		838	57		mg/kg	EPA 300.0
TD16466-15R	**D-18@28**					
Chloride		197	6.2		mg/kg	EPA 300.0
TD16466-16	**D-19@6**					
TPH (C10-C22) [a]		83.9	5.5	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		300	5.5	2.8	mg/kg	SW846 8015C
Chloride		222	11		mg/kg	EPA 300.0
TD16466-17	**D-19@18**					
TPH (C10-C22) [a]		26.6	5.1	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		107	5.1	2.6	mg/kg	SW846 8015C
Chloride		308	26		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16466
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16466-18A	**D-19@30**					
TPH (C10-C22) [a]		12.4	5.1	2.5	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		39.8	5.1	2.5	mg/kg	SW846 8015C
TD16466-19	**D-20@6**					
TPH (C10-C22) [a]		3.70 J	5.5	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		3.80 J	5.5	2.8	mg/kg	SW846 8015C
Chloride		80.2	5.6		mg/kg	EPA 300.0
TD16466-20	**D-20@13**					
TPH (C10-C22) [a]		7.30	6.0	3.0	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		16.9	6.0	3.0	mg/kg	SW846 8015C
Chloride		158	6.0		mg/kg	EPA 300.0
TD16466-21	**D-21@6**					
TPH (C10-C22) [a]		6.51	6.0	3.0	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		14.7	6.0	3.0	mg/kg	SW846 8015C
Chloride		66.9	6.0		mg/kg	EPA 300.0
TD16466-22	**D-21@13**					
TPH (C10-C22) [a]		5.57 J	6.1	3.0	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		11.0	6.1	3.0	mg/kg	SW846 8015C
Chloride		85.2	6.1		mg/kg	EPA 300.0
TD16466-23	**DUP-9**					
TPH (C10-C22) [a]		6.59	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		20.7	5.4	2.7	mg/kg	SW846 8015C
Chloride		692	54		mg/kg	EPA 300.0
TD16466-24	**DUP-10**					
TPH (C10-C22) [a]		12.6	5.6	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		48.1	5.6	2.8	mg/kg	SW846 8015C

(a) Analysis performed at SGS Scott, LA.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CD-4@6		
Lab Sample ID:	TD16466-1	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	93.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036422.D	1	02/14/18 18:03	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	5.75	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		63-139%
540-36-3	1,4-Difluorobenzene	87%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-4@6		
Lab Sample ID:	TD16466-1	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	93.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004843.D	1	02/14/18 22:32	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.82	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	6.69	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-4@6		
Lab Sample ID:	TD16466-1	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	93.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	78.6	5.3	mg/kg	1	02/20/18 13:06	LR	EPA 300.0
Solids, Percent	93.6		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-4@18		
Lab Sample ID:	TD16466-2	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	89.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036423.D	1	02/14/18 18:34	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.60	6.1	6.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		63-139%
540-36-3	1,4-Difluorobenzene	89%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-4@18		
Lab Sample ID:	TD16466-2	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	89.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004844.D	1	02/14/18 22:54	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.39	5.5	2.7	mg/kg	J
	TPH (> C22-C36)	6.42	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-4@18		
Lab Sample ID:	TD16466-2	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	89.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	84.8	5.6	mg/kg	1	02/20/18 13:22	LR	EPA 300.0
Solids, Percent	89.2		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-5@6		
Lab Sample ID:	TD16466-4	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	88.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036425.D	1	02/14/18 19:36	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.80 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	7.20	6.5	6.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	89%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-5@6		
Lab Sample ID:	TD16466-4	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	88.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004845.D	1	02/14/18 23:17	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.41	5.5	2.8	mg/kg	J
	TPH (> C22-C36)	25.1	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	50%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-5@6		
Lab Sample ID:	TD16466-4	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	88.9
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	191	11	mg/kg	2	02/20/18 14:26	LR	EPA 300.0
Solids, Percent	88.9		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-5@16		
Lab Sample ID:	TD16466-5	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	84.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036426.D	1	02/14/18 20:07	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.30 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.69	6.5	6.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		63-139%
540-36-3	1,4-Difluorobenzene	87%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-5@16		
Lab Sample ID:	TD16466-5	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	84.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004846.D	1	02/14/18 23:37	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.8	2.9	mg/kg	
	TPH (> C22-C36)	4.08	5.8	2.9	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-5@16		
Lab Sample ID:	TD16466-5	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	84.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	44.2	5.9	mg/kg	1	02/20/18 13:38	LR	EPA 300.0
Solids, Percent	84.7		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-6@6		
Lab Sample ID:	TD16466-7	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	91.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036428.D	1	02/14/18 21:08	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.30 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	5.64	5.6	5.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	89%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-6@6		
Lab Sample ID:	TD16466-7	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	91.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004847.D	1	02/14/18 23:58	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	5.4	2.7	mg/kg	
	TPH (> C22-C36)	3.36	5.4	2.7	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	33%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-6@6		
Lab Sample ID:	TD16466-7	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	91.7
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	25.7	5.4	mg/kg	1	02/20/18 15:14	LR	EPA 300.0
Solids, Percent	91.7		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-6@8		
Lab Sample ID:	TD16466-8	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	79.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036431.D	1	02/14/18 22:40	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.40 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.1	7.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		63-139%
540-36-3	1,4-Difluorobenzene	93%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-6@8		
Lab Sample ID:	TD16466-8	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	79.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004848.D	1	02/15/18 00:18	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.92	6.1	3.1	mg/kg	J
	TPH (> C22-C36)	ND	6.1	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-6@8		
Lab Sample ID:	TD16466-8	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	79.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	80.8	6.3	mg/kg	1	02/20/18 16:01	LR	EPA 300.0
Solids, Percent	79.5		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-7@6		
Lab Sample ID:	TD16466-9	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	95.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036432.D	1	02/14/18 23:11	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.60 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.0	5.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-7@6		
Lab Sample ID:	TD16466-9	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004852.D	1	02/15/18 01:41	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	4.19	5.2	2.6	mg/kg	J
	TPH (> C22-C36)	4.85	5.2	2.6	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-7@6		
Lab Sample ID:	TD16466-9	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	95.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	38.9	5.2	mg/kg	1	02/20/18 16:17	LR	EPA 300.0
Solids, Percent	95.1		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD-7@8		
Lab Sample ID:	TD16466-10	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036433.D	1	02/14/18 23:42	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.80 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-7@8		
Lab Sample ID:	TD16466-10	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004853.D	1	02/15/18 02:02	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	7.04	5.2	2.6	mg/kg	
	TPH (> C22-C36)	8.36	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CD-7@8		
Lab Sample ID:	TD16466-10	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	95.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	210	10	mg/kg	2	02/20/18 16:33	LR	EPA 300.0
Solids, Percent	95.4		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-17@6		
Lab Sample ID:	TD16466-11	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	84.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036434.D	1	02/15/18 00:13	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.9	6.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	88%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-17@6		
Lab Sample ID:	TD16466-11	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	84.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004854.D	1	02/15/18 02:23	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.63	5.9	3.0	mg/kg	J
	TPH (> C22-C36)	14.7	5.9	3.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-17@6		
Lab Sample ID:	TD16466-11	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	84.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	355	30	mg/kg	5	02/20/18 16:49	LR	EPA 300.0
Solids, Percent	84.3		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-17@16		
Lab Sample ID:	TD16466-12	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036435.D	1	02/15/18 00:44	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.50 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.5	6.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		63-139%
540-36-3	1,4-Difluorobenzene	93%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-17@16		
Lab Sample ID:	TD16466-12	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004855.D	1	02/15/18 02:45	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	43.7	5.4	2.7	mg/kg	
	TPH (> C22-C36)	154	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-17@16		
Lab Sample ID:	TD16466-12	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	92.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	260	27	mg/kg	5	02/20/18 17:05	LR	EPA 300.0
Solids, Percent	92.1		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-18@6		
Lab Sample ID:	TD16466-13	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	90.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036436.D	1	02/15/18 01:15	ALA	02/10/18 17:00	n/a	L:GLC1644
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.50 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.7	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-18@6		
Lab Sample ID:	TD16466-13	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	90.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004856.D	1	02/15/18 03:07	ALA	02/14/18 08:00	L:OP10484	L:GLG614
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	8.87	5.5	2.7	mg/kg	
	TPH (> C22-C36)	26.5	5.5	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-18@6		
Lab Sample ID:	TD16466-13	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	90.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	600	55	mg/kg	10	02/20/18 17:21	LR	EPA 300.0
Solids, Percent	90.5		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-18@24		
Lab Sample ID:	TD16466-14	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	87.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286312.D	1	02/14/18 23:11	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.2	6.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-18@24		
Lab Sample ID:	TD16466-14	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	87.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004875.D	1	02/15/18 11:56	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	12.8	5.7	2.8	mg/kg	
	TPH (> C22-C36)	33.8	5.7	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-18@24		
Lab Sample ID:	TD16466-14	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	87.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	838	57	mg/kg	10	02/20/18 17:37	LR	EPA 300.0
Solids, Percent	87.5		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-18@28		
Lab Sample ID:	TD16466-15R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	80.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	197	6.2	mg/kg	1	03/03/18 18:56	LR	EPA 300.0
Solids, Percent	80.3		%	1	02/28/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-19@6		
Lab Sample ID:	TD16466-16	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	89.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286316.D	1	02/14/18 23:57	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.40 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-139%
540-36-3	1,4-Difluorobenzene	97%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-19@6		
Lab Sample ID:	TD16466-16	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	89.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004876.D	1	02/15/18 12:17	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	83.9	5.5	2.8	mg/kg	
	TPH (> C22-C36)	300	5.5	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-19@6		
Lab Sample ID:	TD16466-16	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	89.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	222	11	mg/kg	2	02/20/18 19:12	LR	EPA 300.0
Solids, Percent	89.3		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-19@18		
Lab Sample ID:	TD16466-17	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	95.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286318.D	1	02/15/18 00:19	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.60 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-139%
540-36-3	1,4-Difluorobenzene	97%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-19@18		
Lab Sample ID:	TD16466-17	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	95.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004877.D	1	02/15/18 12:37	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	26.6	5.1	2.6	mg/kg	
	TPH (> C22-C36)	107	5.1	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-19@18		
Lab Sample ID:	TD16466-17	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	95.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	308	26	mg/kg	5	02/20/18 17:52	LR	EPA 300.0
Solids, Percent	95.1		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-19@30		
Lab Sample ID:	TD16466-18A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C	**Percent Solids:**	96.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LC036628.D	1	02/22/18 12:16	ALA	n/a	n/a	L:GLC1651
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.70 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		63-139%
540-36-3	1,4-Difluorobenzene	87%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-19@30		
Lab Sample ID:	TD16466-18A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	96.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005083.D	1	02/22/18 19:11	ALA	02/22/18 08:00	L:OP10567	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	12.4	5.1	2.5	mg/kg	
	TPH (> C22-C36)	39.8	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-20@6		
Lab Sample ID:	TD16466-19	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	88.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286322.D	1	02/15/18 01:05	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.3	6.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-20@6		
Lab Sample ID:	TD16466-19	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	88.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004881.D	1	02/15/18 14:00	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	3.70	5.5	2.8	mg/kg	J
	TPH (> C22-C36)	3.80	5.5	2.8	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-20@6		
Lab Sample ID:	TD16466-19	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	88.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	80.2	5.6	mg/kg	1	02/20/18 20:00	LR	EPA 300.0
Solids, Percent	88.5		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-20@13		
Lab Sample ID:	TD16466-20	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	83.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286328.D	1	02/15/18 02:13	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.9	6.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-20@13		
Lab Sample ID:	TD16466-20	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	83.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004882.D	1	02/15/18 14:21	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	7.30	6.0	3.0	mg/kg	
	TPH (> C22-C36)	16.9	6.0	3.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-20@13		
Lab Sample ID:	TD16466-20	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	83.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	158	6.0	mg/kg	1	02/20/18 20:16	LR	EPA 300.0
Solids, Percent	83		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-21@6		
Lab Sample ID:	TD16466-21	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	83.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286330.D	1	02/15/18 02:36	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.0	6.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-21@6		
Lab Sample ID:	TD16466-21	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	83.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004883.D	1	02/15/18 14:42	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	6.51	6.0	3.0	mg/kg	
	TPH (> C22-C36)	14.7	6.0	3.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-21@6		
Lab Sample ID:	TD16466-21	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	83.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	66.9	6.0	mg/kg	1	02/20/18 20:32	LR	EPA 300.0
Solids, Percent	83.1		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-21@13		
Lab Sample ID:	TD16466-22	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	81.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286332.D	1	02/15/18 02:59	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.90 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.4	7.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-21@13		
Lab Sample ID:	TD16466-22	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	81.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004884.D	1	02/15/18 15:03	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	5.57	6.1	3.0	mg/kg	J
	TPH (> C22-C36)	11.0	6.1	3.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	D-21@13		
Lab Sample ID:	TD16466-22	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	81.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	85.2	6.1	mg/kg	1	02/20/18 20:48	LR	EPA 300.0
Solids, Percent	81.4		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-9		
Lab Sample ID:	TD16466-23	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	92.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286334.D	1	02/15/18 03:22	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-9		
Lab Sample ID:	TD16466-23	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004885.D	1	02/15/18 15:23	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	6.59	5.4	2.7	mg/kg	
	TPH (> C22-C36)	20.7	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-9		
Lab Sample ID:	TD16466-23	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	92.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	692	54	mg/kg	10	02/20/18 21:03	LR	EPA 300.0
Solids, Percent	92.5		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-10		
Lab Sample ID:	TD16466-24	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 5035	**Percent Solids:**	89.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286336.D	1	02/15/18 03:44	ALA	02/10/18 17:00	n/a	L:GLA1690
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.2	6.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		63-139%
540-36-3	1,4-Difluorobenzene	96%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-10		
Lab Sample ID:	TD16466-24	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	89.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0004886.D	1	02/15/18 15:44	ALA	02/14/18 08:00	L:OP10485	L:GLG615
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	12.6	5.6	2.8	mg/kg	
	TPH (> C22-C36)	48.1	5.6	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-10		
Lab Sample ID:	TD16466-24	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	89.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	< 5.6	5.6	mg/kg	1	02/20/18 21:19	LR	EPA 300.0
Solids, Percent	89		%	1	02/12/18	TH	SM 2540 G

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST — CHAIN OF CUSTODY

PAGE 1 OF 2

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
SGS Accutest Quote #: | SGS Accutest Job #: TD16466

Client / Reporting Information

Company Name: ENTECH CONSULTING CORP
Street Address: 21 Waterway Ave # 300
City: The Woodlands State: TX Zip:
Project Contact: PETE SCHRAM E-mail: pete.schram@entechservices.com
Phone #: 210-326-7831 Fax #:
Sampler(s) Name(s): PETE SCHRAM Phone #: 210-326-7831

Project Information

Project Name: CJES STATE AB SCDD #1
Street: Lea Co. NM
City: State:
Project #:
Client Purchase Order #:
Project Manager: CHAN PATEL

Billing Information (if different from Report to)

Company Name: ENTECH CONSULTING
Street Address: 21 WATERWAY AVE #300
City: THE WOODLANDS State: TX Zip:
Attention: CHAN PATEL

Requested Analyses

Cl- Method 300.0
TPH 8015 Ext (GRO/DRO/MRO)
Hold for Analysis

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
1	CD-4 @ 6	2/8/18	935	PVS	S	1							✓						
2	CD-4 @ 18		935										✓						
3	CD-4 @ 30		935										✓						
4	CD-5 @ 6		1035										✓						
5	CD-5 @ 16		1035										✓						
6	CD-5 @ 28		1035										✓						
7	CD-6 @ 6		1347										✓						
8	CD-6 @ 8		1347										✓						
9	CD-7 @ 6		1358										✓						
10	CD-7 @ 8		1358										✓						
11	D-17 @ 6		1016										✓						
12	D-17 @ 16	2/8/18	1016	PVS	S	1							✓						

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time: 2/9/18 12:00	Received By: 1 Jason Fisher	Date Time: 2/9/18 12:00	Relinquished By: 2 Jason Fisher	Date Time: 2/9/18 14:00	Received By: 2 Fed Ex	Date Time:
Relinquished by Sampler: 3	Date Time: 2/10/18 10:05	Received By: 3	Date Time: 2/10/18 1000	Relinquished By: 4	Date Time:	Received By: 4	Date Time:
Relinquished by: 5	Date Time:	Received By: 5	Date Time:	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice Cooler Temp. 2 °C

SGS ACCUTEST

CHAIN OF CUSTODY

PAGE 2 OF 2

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # TD16466

Client / Reporting Information

Company Name: ENTECH CONSULTING
Street Address: 21 WATERWAY AVE., # 300
City / State / Zip: THE WOODLANDS TX
Project Contact: PETE SCHRAM E-mail: peteschram@entechservice.com
Phone #: 210-326-7831 Fax #:
Sampler(s) Name(s): PETE SCHRAM Phone #: 210326 7831

Project Information

Project Name: CEC STATE 4B SWD #1
Street: LEA CO., NMEX
City / State:
Project #:
Client Purchase Order #:
Project Manager: CHAN PATEL

Billing Information (if different from Report to)

Company Name: ENTECH CONSULTING
Street Address: 21 WATERWAY AVE #300
City / State / Zip: THE WOODLANDS TX
Attention: CHAN PATEL

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	<1% marked 3500.0	TPH 8015 EXT (GRO/DRO/MRO)	Hold For Analysis	LAB USE ONLY
13	D-18@6	2/8/18	1100	PVS	S	1						✓							✓	✓		
14	D-18@24		1100									✓							✓	✓		
15	D-18@28		1100									✓									✓	
16	D-19@6		1111									✓							✓	✓		
17	D-19@18		1111									✓										
18	D-19@30		1111									✓									✓	
19	D-20@6		1253									✓							✓	✓		
20	D-20@13		1253									✓							✓	✓		
21	D-21@6		1302									✓							✓	✓		
22	D-21@13		1302									✓							✓	✓		
23	DUP-9		—									✓							✓	✓		
24	DUP-10	2/8/18	—	PVS	S	1						✓							✓	✓		

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1		2/9/18 12:00	1 Jason Fisher	2/9/18 12:00	2 Jason Fisher	2/9/18 14:00	2 Fed Ex	
3		2/9/18 1005	3		4		4	
5	Relinquished by:	Date Time:	Received By: 5	Date Time:	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp
								2.8 C

SGS ACCUTEST

COOLER TEMP FORM

TC# TD16466

Delivered by (circle one): (FedEx)/UPS ALGC Driver Client

Date: 2-10-18

Client: Entech

Cooler Number: 1

Thermometer ID: IR-5 CF, °C 0 Corrected Temp, °C 2.0

SAMPLES CONT...

ORIGIN ID:SGRA (432) 234-3079
JASON FISHER
SGS-ACCUTEST
3600 S. COUNTRY ROAD
MIDLAND, TX 79706
UNITED STATES US

SHIP DATE: 05JAN18
ACTWGT: 25.0 LB MAN
CAD: 0243286/CAFE2916

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST
10165 HARWIN DRIVE
SUITE 150
HOUSTON TX 77036
(713) 271-4700 REF:
INV:
PO: DEPT:

538C1/8D40/329B

FedEx Express E

J151315081301uv

091009

TRK# 0221 FedEx

...TURN...
SATURDAY 12:00P
PRIORITY OVERNIGHT

77036
TX-US IAH

Part # 156148-434 RRD 07/15

...56297-435 RRDB EXP 09/18

IT 4°

pH LOT# 10D4561

Form: SM027-06 Rev 10/24/2016

4.1 4

TD16466: Chain of Custody
Page 3 of 4

SGS Sample Receipt Summary

Job Number: TD16466 **Client:** ENTECH **Project:** CJES STATE AB

Date / Time Received: **Delivery Method:** **Airbill #'s:**

No. Coolers: 1 **Therm ID:** IR-5; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (2/2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		

Quality Control Preservation	Y	or	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐		☐	☑	☐	☐
2. Trip Blank listed on COC:	☐		☐	☑		
3. Samples preserved properly:	☑		☐			
4. VOCs headspace free:	☐		☐	☑		

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments Subsampled into 1-2oz container for all samples to run wet chem analysis.

TD16466: Chain of Custody
Page 4 of 4

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16466
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP46351/GN87921	5.0	0.0	mg/kg	100	95.7	95.7	90-110%
Chloride	GP46357/GN87921	5.0	0.0	mg/kg	100	94.4	94.4	90-110%
Chloride	GP46358/GN87921	5.0	0.0	mg/kg	100	95.1	95.1	90-110%
Chloride	GP46536/GN88202	5.0	0.0	mg/kg	100	94.6	94.6	90-110%

Associated Samples:
Batch GP46351: TD16466-1, TD16466-2, TD16466-5
Batch GP46357: TD16466-4, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13, TD16466-14, TD16466-17
Batch GP46358: TD16466-16, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24
Batch GP46536: TD16466-15R
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16466
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP46351/GN87921	TD16465-1	mg/kg	6.7	11.9	55.9(a)	0-20%
Chloride	GP46357/GN87921	TD16466-4	mg/kg	191	183	4.3	0-20%
Chloride	GP46358/GN87921	TD16466-16	mg/kg	222	224	0.9	0-20%
Chloride	GP46536/GN88202	TD16424-10A	mg/kg	20.1	20.6	2.5	0-20%
Solids, Percent	GN87743	TD16465-1	%	92.8	92.7	0.1	0-5%
Solids, Percent	GN87749	TD16461-2	%	83.7	83.6	0.1	0-5%
Solids, Percent	GN87959	TD17042-1	%	69	69.5	0.7	0-5%
Solids, Percent	GN88105	TD17204-2	%	82.1	82.1	0.0	0-5%

Associated Samples:
Batch GN87743: TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13, TD16466-14, TD16466-16
Batch GN87749: TD16466-17, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24
Batch GN87959: TD16466-18A
Batch GN88105: TD16466-15R
Batch GP46351: TD16466-1, TD16466-2, TD16466-5
Batch GP46357: TD16466-4, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13, TD16466-14, TD16466-17
Batch GP46358: TD16466-16, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24
Batch GP46536: TD16466-15R
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16466
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP46351/GN87921	TD16465-1	mg/kg	6.7	107	106	92.7	80-120%
Chloride	GP46357/GN87921	TD16466-4	mg/kg	191	112	379	168.1N	80-120%
Chloride	GP46358/GN87921	TD16466-16	mg/kg	222	111	422	179.7N	80-120%
Chloride	GP46536/GN88202	TD16424-10A	mg/kg	20.1	108	122	94.0	80-120%

Associated Samples:
Batch GP46351: TD16466-1, TD16466-2, TD16466-5
Batch GP46357: TD16466-4, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13, TD16466-14, TD16466-17
Batch GP46358: TD16466-16, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24
Batch GP46536: TD16466-15R
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Scott, LA)

Includes the following where applicable:

- Chain of Custody

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # TD16466

Client / Reporting Information

Company Name: SGS North America In.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact E-mail: Trameshia.Brown@sgs.com
Phone #: 713-271-4700 Fax #
Sampler(s) Name(s): PS Phone

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street
City State
Project #
Client Purchase Order #
Project Manager

Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

	SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1,V8015GRO,	Hold	LAB USE ONLY
1	1	CD-4@6		2/8/18	9:35:00 AM	PS	SO	1					X				X		1
2	2	CD-4@18		2/8/18	9:35:00 AM	PS	SO	1					X				X		1
3	3	CD-4@30		2/8/18	9:35:00 AM	PS	SO	1					X					X	1
4	4	CD-5@6		2/8/18	10:35:00 AM	PS	SO	1					X				X		1
5	5	CD-5@16		2/8/18	10:35:00 AM	PS	SO	1					X				X		1
6	6	CD-5@28		2/8/18	10:35:00 AM	PS	SO	1					X					X	1
7	7	CD-6@6		2/8/18	1:47:00 PM	PS	SO	1					X				X		1
8	8	CD-6@8		2/8/18	1:47:00 PM	PS	SO	1					X				X		1
9	9	CD-7@6		2/8/18	1:58:00 PM	PS	SO	1					X				X		1
10	10	CD-7@8		2/8/18	1:58:00 PM	PS	SO	1					X				X		1
11	11	D-17@6		2/8/18	10:16:00 AM	PS	SO	1					X				X		1
12	12	D-17@16		2/8/18	10:16:00 AM	PS	SO	1					X				X		1

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [x] other Due 2/19/2018

Emergency & Rush T/A data available VIA Lablink

RUSH

Approved By (SGS PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [x] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

~~Hold~~
VS(RRM80) 7D9(BX1)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 S. Parnez	2-12-18 1800	1 SGS	2 SGS		2 [signature]
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3 [signature]	2/12/18 2200	3 Walter Newman 2-13-18 815	4 Walter Newman		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not intact / Preserved where applicable	On Ice / Cooler Temp.
5		5	CS/OC		2.0, 1.8 du441

TD16466: Chain of Custody
Page 1 of 4
SGS Scott, LA

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # TD16466

Client / Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact / E-mail: Trameshia.Brown@sgs.com
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): PS Phone

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street
City State
Project #
Client Purchase Order #
Project Manager

Billing Information (if different from Report to)
Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

	SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	B8015DROORO1,V8015GRO,	Hold	LAB USE ONLY
13	13	D-18@6		2/8/18	11:00:00 AM	PS	SO	1					X				X		
14	14	D-18@24		2/8/18	11:00:00 AM	PS	SO	1					X				X		
15	15	D-18@28		2/8/18	11:00:00 AM	PS	SO	1					X					X	
16	16	D-19@6		2/8/18	11:11:00 AM	PS	SO	1					X				X		
17	17	D-19@18		2/8/18	11:11:00 AM	PS	SO	1					X				X		
18	18	D-19@30		2/8/18	11:11:00 AM	PS	SO	1					X					X	
19	19	D-20@6		2/8/18	12:53:00 PM	PS	SO	1					X				X		
20	20	D-20@13		2/8/18	12:53:00 PM	PS	SO	1					X				X		
21	21	D-21@6		2/8/18	1:02:00 PM	PS	SO	1					X				X		
22	22	D-21@13		2/8/18	1:02:00 PM	PS	SO	1					X				X		
23	23	DUP-9		2/8/18	12:00:00 AM	PS	SO	1					X				X		
24	24	DUP-10		2/8/18	12:00:00 AM	PS	SO	1					X				X		

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/19/2018

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 S. Torres	1800 2-12-18	1 SGS	2 SGS		2 D. Allen
3 D. Allen	1230 2/12/18	3 Walter Newman 2.13.18 0815	4		4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # CS/DL	Intact / Not intact; Preserved where applicable	On Ice; Cooler Temp. 2.0, 1.8 dd 441

TD16466: Chain of Custody
Page 2 of 4

SGS Sample Receipt Summary

Job Number: TD16466 **Client:** SGS NORTH AMERCA **Project:** CJES STATE AB SWD#1/LEA

Date / Time Received: 2/13/2018 8:15:00 AM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); #2: (1.8/1.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	DV441;		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

6.1

6

TD16466: Chain of Custody
Page 3 of 4

Job Change Order: TD16466

Requested Date:	2/21/2018	**Received Date:**	2/10/2018
Account Name:	EnTech Consulting Corporation	**Due Date:**	2/20/2018
Project Description:	CJES State AB SWD #1/LEA Co,N Mex	**Deliverable:**	COMMB
CSR:	SylviaG	**TAT (Days):**	7

==========

Sample #: TD16466-18A

Dept:

TAT: 7

D-19@30

Change:

Login V8015GRO, B8015DROORO1

==========

Above Changes Per: Client

Date/Time: 2/21/2018 4:40:50 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

6.1

TD16466: Chain of Custody
Page 4 of 4

GC Volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1644-MB2	LC036412.D	1	02/14/18	MB	n/a	n/a	GLC1644

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	63-139%
540-36-3	1,4-Difluorobenzene	87%	52-140%

Method Blank Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1690-MB2	LA286310.D	1	02/14/18	MB	n/a	n/a	GLA1690

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-14, TD16466-16, TD16466-17, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	63-139%
540-36-3	1,4-Difluorobenzene	97%	52-140%

Method Blank Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1651-MB1	LC036627.D	1	02/22/18	SV	n/a	n/a	GLC1651

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-18A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	105%	63-139%
540-36-3	1,4-Difluorobenzene	92%	52-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1644-BS2	LC036410.D	1	02/14/18	MB	n/a	n/a	GLC1644
GLC1644-BSD2	LC036411.D	1	02/14/18	MB	n/a	n/a	GLC1644

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	47.0	94	46.4	93	1	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	95%	63-139%
540-36-3	1,4-Difluorobenzene	92%	91%	52-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1690-BS2	LA286306.D	1	02/14/18	MB	n/a	n/a	GLA1690
GLA1690-BSD2	LA286308.D	1	02/14/18	MB	n/a	n/a	GLA1690

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-14, TD16466-16, TD16466-17, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	48.4	97	46.3	93	4	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	102%	63-139%
540-36-3	1,4-Difluorobenzene	101%	104%	52-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1651-BS1	LC036625.D	1	02/22/18	SV	n/a	n/a	GLC1651
GLC1651-BSD1	LC036626.D	1	02/22/18	SV	n/a	n/a	GLC1651

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-18A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	47.3	95	46.5	93	2	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	101%	63-139%
540-36-3	1,4-Difluorobenzene	96%	97%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16465-7MS	LC036437.D	1	02/15/18	MB	n/a	n/a	GLC1644
TD16465-7MSD	LC036438.D	1	02/15/18	MB	n/a	n/a	GLC1644
TD16465-7	LC036421.D	1	02/14/18	MB	n/a	n/a	GLC1644

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	TD16465-7 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	5.85		233	202	84	233	199	83	1	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16465-7	Limits
460-00-4	4-Bromofluorobenzene	98%	97%	98%	63-139%
540-36-3	1,4-Difluorobenzene	94%	93%	89%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16466-24MS	LA286340.D	1	02/15/18	MB	n/a	n/a	GLA1690
TD16466-24MSD	LA286342.D	1	02/15/18	MB	n/a	n/a	GLA1690
TD16466-24	LA286336.D	1	02/15/18	MB	n/a	n/a	GLA1690

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-14, TD16466-16, TD16466-17, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24

CAS No.	Compound	TD16466-24 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		249	224	90	249	219	88	2	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16466-24	Limits
460-00-4	4-Bromofluorobenzene	104%	103%	97%	63-139%
540-36-3	1,4-Difluorobenzene	107%	106%	96%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16466-18AMS	LC036630.D	1	02/22/18	SV	n/a	n/a	GLC1651
TD16466-18AMSD	LC036631.D	1	02/22/18	SV	n/a	n/a	GLC1651
TD16466-18A	LC036628.D	1	02/22/18	SV	n/a	n/a	GLC1651

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-18A

CAS No.	Compound	TD16466-18A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		228	205	90	228	200	88	2	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16466-18A	Limits
460-00-4	4-Bromofluorobenzene	104%	99%	98%	63-139%
540-36-3	1,4-Difluorobenzene	96%	95%	87%	52-140%

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MB	S0004826.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.59	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	31-130%

Method Blank Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10485-MB	S0004868.D	1	02/15/18	JT	02/14/18	OP10485	GLG615

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-14, TD16466-16, TD16466-17, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.57	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	76%	31-130%

Method Blank Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10567-MB	S0005087.D	1	02/22/18	JT	02/22/18	OP10567	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-18A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.82	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	80%	31-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-BS1	S0004827.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
OP10484-BSD	S0004828.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	111	93	118	98	6	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	75%	77%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-BS2	S0004829.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
OP10484-BSD2	S0004830.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	131	87	130	87	1	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	72%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10485-BS1	S0004869.D	1	02/15/18	JT	02/14/18	OP10485	GLG615
OP10485-BSD1	S0004870.D	1	02/15/18	JT	02/14/18	OP10485	GLG615

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-14, TD16466-16, TD16466-17, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	112	93	110	92	2	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	71%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10485-BS2	S0004871.D	1	02/15/18	JT	02/14/18	OP10485	GLG615
OP10485-BSD2	S0004872.D	1	02/15/18	JT	02/14/18	OP10485	GLG615

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-14, TD16466-16, TD16466-17, TD16466-19, TD16466-20, TD16466-21, TD16466-22, TD16466-23, TD16466-24

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	109	73	118	79	8	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	68%	73%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10567-BS1	S0005088.D	1	02/22/18	JT	02/22/18	OP10567	GLG620
OP10567-BSD1	S0005089.D	1	02/22/18	JT	02/22/18	OP10567	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-18A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	127	106	127	106	0	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	88%	89%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10567-BS2	S0005090.D	1	02/22/18	JT	02/22/18	OP10567	GLG620
OP10567-BSD2	S0005091.D	1	02/22/18	JT	02/22/18	OP10567	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-18A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	121	81	125	83	3	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	82%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MS1	S0004839.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
TD16439-46A	S0004831.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	TD16439-46A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (C10-C22)	19.4		129	127	84	57-119

CAS No.	Surrogate Recoveries	MS	TD16439-46A	Limits
84-15-1	o-Terphenyl	76%	66%	31-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: TD16466
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10484-MS2	S0004840.D	1	02/14/18	JT	02/14/18	OP10484	GLG614
TD16439-46A	S0004831.D	1	02/14/18	JT	02/14/18	OP10484	GLG614

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16466-1, TD16466-2, TD16466-4, TD16466-5, TD16466-7, TD16466-8, TD16466-9, TD16466-10, TD16466-11, TD16466-12, TD16466-13

CAS No.	Compound	TD16439-46A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Limits
	TPH (> C22-C36)	69.1		162	144	46*	55-117

CAS No.	Surrogate Recoveries	MS	TD16439-46A	Limits
84-15-1	o-Terphenyl	64%	66%	31-130%

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EnTech Consulting Corporation

CJES State AB SWD #1/LEA Co,N Mex

SGS Job Number: TD16489

Sampling Date: 02/08/18

Report to:

EnTech Consulting Corporation
21 Waterway Ave, Suite 300
The Woodlands, TX 77380
chan.patel@entechservice.com; pete.schram@entechservice.com

ATTN: Chan Patel

Total number of pages in report: 64

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Richard Rodriguez
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-18-28) AR (14-016-0) AZ (AZ0769) FL (E87628) KS (E-10366) LA (85695/04004) NJ (TX010) OK (2017-002) VA (8999)

Table of Contents

SGS North America Inc.

Sample Summary

EnTech Consulting Corporation

Job No: TD16489

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16489-1	02/08/18	08:55		02/10/18	SO	Soil	BUC-6@6
TD16489-2	02/08/18	08:55		02/10/18	SO	Soil	BUC-6@8
TD16489-2R	02/08/18	08:55		02/10/18	SO	Soil	BUC-6@8
TD16489-3	02/08/18	09:03		02/10/18	SO	Soil	BUC-7@6
TD16489-4	02/08/18	09:03		02/10/18	SO	Soil	BUC-7@10
TD16489-4R	02/08/18	09:03		02/10/18	SO	Soil	BUC-7@10
TD16489-5	02/08/18	09:13		02/10/18	SO	Soil	BUC-8@6
TD16489-6	02/08/18	09:13		02/10/18	SO	Soil	BUC-8@8
TD16489-6R	02/08/18	09:13		02/10/18	SO	Soil	BUC-8@8
TD16489-7	02/08/18	09:23		02/10/18	SO	Soil	BUC-9@6
TD16489-7R	02/08/18	09:23		02/10/18	SO	Soil	BUC-9@6
TD16489-8	02/08/18	09:23		02/10/18	SO	Soil	BUC-9@12
TD16489-8R	02/08/18	09:23		02/10/18	SO	Soil	BUC-9@12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16489

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16489-9	02/08/18	09:46		02/10/18	SO	Soil	BUC-10@6
TD16489-10	02/08/18	09:46		02/10/18	SO	Soil	BUC-10@16
TD16489-11	02/08/18	09:46		02/10/18	SO	Soil	BUC-10@24
TD16489-12	02/08/18	10:06		02/10/18	SO	Soil	BUC-11@6
TD16489-12A	02/08/18	10:06		02/10/18	SO	Soil	BUC-11@6
TD16489-12R	02/08/18	10:06		02/10/18	SO	Soil	BUC-11@6
TD16489-13	02/08/18	10:06		02/10/18	SO	Soil	BUC-11@13
TD16489-13A	02/08/18	10:06		02/10/18	SO	Soil	BUC-11@13
TD16489-13R	02/08/18	10:06		02/10/18	SO	Soil	BUC-11@13
TD16489-14	02/08/18	10:25		02/10/18	SO	Soil	BUC-12@6
TD16489-14A	02/08/18	10:25		02/10/18	SO	Soil	BUC-12@6
TD16489-14R	02/08/18	10:25		02/10/18	SO	Soil	BUC-12@6
TD16489-15	02/08/18	10:25		02/10/18	SO	Soil	BUC-12@18

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16489

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16489-15A	02/08/18	10:25		02/10/18	SO	Soil	BUC-12@18
TD16489-15R	02/08/18	10:25		02/10/18	SO	Soil	BUC-12@18
TD16489-16	02/08/18	10:50		02/10/18	SO	Soil	BUC-13@6
TD16489-17	02/08/18	10:50		02/10/18	SO	Soil	BUC-13@20
TD16489-18	02/08/18	10:50		02/10/18	SO	Soil	BUC-13@30
TD16489-19	02/08/18	11:25		02/10/18	SO	Soil	BUC-14@6
TD16489-20	02/08/18	11:25		02/10/18	SO	Soil	BUC-14@24
TD16489-21	02/08/18	11:25		02/10/18	SO	Soil	BUC-14@32
TD16489-22	02/08/18	12:45		02/10/18	SO	Soil	BUC-15@6
TD16489-22R	02/08/18	12:45		02/10/18	SO	Soil	BUC-15@6
TD16489-23	02/08/18	12:45		02/10/18	SO	Soil	BUC-15@24
TD16489-23R	02/08/18	12:45		02/10/18	SO	Soil	BUC-15@24
TD16489-24	02/08/18	12:45		02/10/18	SO	Soil	BUC-15@30

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16489

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16489-24R	02/08/18	12:45		02/10/18	SO	Soil	BUC-15@30
TD16489-25	02/08/18	13:13		02/10/18	SO	Soil	BUC-16@6
TD16489-26	02/08/18	13:13		02/10/18	SO	Soil	BUC-16@9
TD16489-26R	02/08/18	13:13		02/10/18	SO	Soil	BUC-16@9
TD16489-27	02/08/18	13:20		02/10/18	SO	Soil	BUC-17@6
TD16489-28	02/08/18	13:20		02/10/18	SO	Soil	BUC-17@8
TD16489-29	02/08/18	13:29		02/10/18	SO	Soil	BUC-18@6
TD16489-30	02/08/18	13:29		02/10/18	SO	Soil	BUC-18@9
TD16489-30R	02/08/18	13:29		02/10/18	SO	Soil	BUC-18@9
TD16489-31	02/08/18	13:36		02/10/18	SO	Soil	BUC-19@6
TD16489-32	02/08/18	13:36		02/10/18	SO	Soil	BUC-19@8
TD16489-32R	02/08/18	13:36		02/10/18	SO	Soil	BUC-19@8
TD16489-33	02/08/18	00:00		02/10/18	SO	Soil	DUP-6

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

EnTech Consulting Corporation

Job No: TD16489

CJES State AB SWD #1/LEA Co,N Mex

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TD16489-34	02/08/18	00:00		02/10/18	SO	Soil	DUP-7
TD16489-34R	02/08/18	00:00		02/10/18	SO	Soil	DUP-7
TD16489-35	02/08/18	00:00		02/10/18	SO	Soil	DUP-8
TD16489-35R	02/08/18	00:00		02/10/18	SO	Soil	DUP-8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: TD16489
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16489-2R	**BUC-6@8**					
Chloride		186	5.3		mg/kg	EPA 300.0
TD16489-4R	**BUC-7@10**					
Chloride		62.6	5.6		mg/kg	EPA 300.0
TD16489-6R	**BUC-8@8**					
Chloride		68.1	6.0		mg/kg	EPA 300.0
TD16489-7R	**BUC-9@6**					
Chloride		43.6	5.1		mg/kg	EPA 300.0
TD16489-8R	**BUC-9@12**					
Chloride		29.3	5.4		mg/kg	EPA 300.0
TD16489-12A	**BUC-11@6**					
TPH (C10-C22) [a]		26.7	5.4	2.7	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		110	5.4	2.7	mg/kg	SW846 8015C
TD16489-12R	**BUC-11@6**					
Chloride		358	27		mg/kg	EPA 300.0
TD16489-13A	**BUC-11@13**					
TPH (C10-C22) [a]		7.44	5.2	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		19.1	5.2	2.6	mg/kg	SW846 8015C
TD16489-13R	**BUC-11@13**					
Chloride		441	26		mg/kg	EPA 300.0
TD16489-14A	**BUC-12@6**					
TPH (C10-C22) [a]		15.4	5.6	2.8	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		49.5	5.6	2.8	mg/kg	SW846 8015C

Summary of Hits

Job Number: TD16489
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TD16489-14R	**BUC-12@6**					
Chloride		43.3	5.7		mg/kg	EPA 300.0
TD16489-15A	**BUC-12@18**					
TPH (C10-C22) [a]		14.9	5.3	2.6	mg/kg	SW846 8015C
TPH (> C22-C36) [a]		67.6	5.3	2.6	mg/kg	SW846 8015C
TD16489-15R	**BUC-12@18**					
Chloride		28.6	5.4		mg/kg	EPA 300.0
TD16489-22R	**BUC-15@6**					
Chloride		47.9	5.2		mg/kg	EPA 300.0
TD16489-23R	**BUC-15@24**					
Chloride		658	27		mg/kg	EPA 300.0
TD16489-24R	**BUC-15@30**					
Chloride		1650	54		mg/kg	EPA 300.0
TD16489-26R	**BUC-16@9**					
Chloride		317	10		mg/kg	EPA 300.0
TD16489-30R	**BUC-18@9**					
Chloride		22.6	6.0		mg/kg	EPA 300.0
TD16489-32R	**BUC-19@8**					
Chloride		40.5	5.2		mg/kg	EPA 300.0
TD16489-34R	**DUP-7**					
Chloride		500	26		mg/kg	EPA 300.0
TD16489-35R	**DUP-8**					
Chloride		37.0	6.4		mg/kg	EPA 300.0

Summary of Hits

Job Number: TD16489
Account: EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex
Collected: 02/08/18

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(a) Analysis performed at SGS Scott, LA.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BUC-6@8		
Lab Sample ID:	TD16489-2R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	93.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	186	5.3	mg/kg	1	03/05/18 11:40	LR	EPA 300.0
Solids, Percent	93.6		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-7@10		
Lab Sample ID:	TD16489-4R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	89.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	62.6	5.6	mg/kg	1	03/05/18 11:55	LR	EPA 300.0
Solids, Percent	89.3		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-8@8		
Lab Sample ID:	TD16489-6R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	83.0
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	68.1	6.0	mg/kg	1	03/05/18 12:43	LR	EPA 300.0
Solids, Percent	83		%	1	02/28/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-9@6		
Lab Sample ID:	TD16489-7R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	96.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	43.6	5.1	mg/kg	1	03/05/18 12:59	LR	EPA 300.0
Solids, Percent	96.3		%	1	02/28/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-9@12		
Lab Sample ID:	TD16489-8R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	91.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	29.3	5.4	mg/kg	1	03/05/18 13:15	LR	EPA 300.0
Solids, Percent	91.4		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-11@6		
Lab Sample ID:	TD16489-12A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286827.D	1	02/22/18 12:36	ALA	n/a	n/a	L:GLA1699
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.8	5.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-11@6		
Lab Sample ID:	TD16489-12A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005096.D	1	02/22/18 23:45	ALA	02/22/18 08:00	L:OP10567	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	26.7	5.4	2.7	mg/kg	
	TPH (> C22-C36)	110	5.4	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-11@6		
Lab Sample ID:	TD16489-12R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	358	27	mg/kg	5	03/05/18 13:30	LR	EPA 300.0

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-11@13		
Lab Sample ID:	TD16489-13A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C	**Percent Solids:**	94.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286829.D	1	02/22/18 12:58	ALA	n/a	n/a	L:GLA1699
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.5	5.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-11@13		
Lab Sample ID:	TD16489-13A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	94.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005100.D	1	02/23/18 01:15	ALA	02/22/18 08:00	L:OP10567	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	7.44	5.2	2.6	mg/kg	
	TPH (> C22-C36)	19.1	5.2	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-11@13		
Lab Sample ID:	TD16489-13R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	94.6
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	441	26	mg/kg	5	03/05/18 16:29	LR	EPA 300.0

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-12@6		
Lab Sample ID:	TD16489-14A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C	**Percent Solids:**	87.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286831.D	1	02/22/18 13:20	ALA	n/a	n/a	L:GLA1699
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.3	6.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		63-139%
540-36-3	1,4-Difluorobenzene	91%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-12@6		
Lab Sample ID:	TD16489-14A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	87.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005101.D	1	02/23/18 01:37	ALA	02/22/18 08:00	L:OP10567	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	15.4	5.6	2.8	mg/kg	
	TPH (> C22-C36)	49.5	5.6	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-12@6		
Lab Sample ID:	TD16489-14R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	87.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	43.3	5.7	mg/kg	1	03/05/18 16:45	LR	EPA 300.0

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-12@18		
Lab Sample ID:	TD16489-15A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LA286833.D	1	02/22/18 13:42	ALA	n/a	n/a	L:GLA1699
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	90%		52-140%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-12@18		
Lab Sample ID:	TD16489-15A	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
Method:	SW846 8015C SW846 3546	**Percent Solids:**	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	S0005102.D	1	02/23/18 01:58	ALA	02/22/18 08:00	L:OP10567	L:GLG620
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	14.9	5.3	2.6	mg/kg	
	TPH (> C22-C36)	67.6	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		31-130%

(a) Analysis performed at SGS Scott, LA.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BUC-12@18		
Lab Sample ID:	TD16489-15R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	92.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	28.6	5.4	mg/kg	1	03/05/18 17:01	LR	EPA 300.0

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-15@6		
Lab Sample ID:	TD16489-22R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	96.1
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	47.9	5.2	mg/kg	1	03/05/18 17:17	LR	EPA 300.0
Solids, Percent	96.1		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-15@24		
Lab Sample ID:	TD16489-23R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	90.3
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	658	27	mg/kg	5	03/06/18 02:50	LR	EPA 300.0
Solids, Percent	90.3		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-15@30		
Lab Sample ID:	TD16489-24R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	92.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1650	54	mg/kg	10	03/06/18 03:06	LR	EPA 300.0
Solids, Percent	92.2		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-16@9		
Lab Sample ID:	TD16489-26R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	93.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	317	10	mg/kg	2	03/06/18 03:22	LR	EPA 300.0
Solids, Percent	93.4		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-18@9		
Lab Sample ID:	TD16489-30R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	82.4
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	22.6	6.0	mg/kg	1	03/06/18 03:38	LR	EPA 300.0
Solids, Percent	82.4		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BUC-19@8		
Lab Sample ID:	TD16489-32R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	95.8
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	40.5	5.2	mg/kg	1	03/06/18 03:54	LR	EPA 300.0
Solids, Percent	95.8		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-7		
Lab Sample ID:	TD16489-34R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	94.2
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	500	26	mg/kg	5	03/06/18 04:09	LR	EPA 300.0
Solids, Percent	94.2		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-8		
Lab Sample ID:	TD16489-35R	**Date Sampled:**	02/08/18
Matrix:	SO - Soil	**Date Received:**	02/10/18
		Percent Solids:	77.5
Project:	CJES State AB SWD #1/LEA Co,N Mex		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	37.0	6.4	mg/kg	1	03/06/18 04:25	LR	EPA 300.0
Solids, Percent	77.5		%	1	03/01/18	PA	SM 2540 G

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS ACCUTEST

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 3

FED-EX Tracking #: | Bottle Order Control #:
SGS Accutest Quote #: | SGS Accutest Job #: TD16489

Client / Reporting Information

Company Name: ENTECH CONSULTING
Street Address: 21 WATERWAY AVE #300
City: THE WOODLANDS State: TX Zip:
Project Contact: PETE SCHRAM E-mail: pete.schram@entechservice.com
Phone #: 210-326-7831 Fax #:
Sampler(s) Name(s): PETE SCHRAM Phone #:

Project Information

Project Name: CJES STATE AB SWD #1
Street: Lea Co. NM
City: State:
Project #:
Client Purchase Order #:
Project Manager: CHAD PATEL

Billing Information (if different from Report to)

Company Name: ENTECH CONSULT ING
Street Address: 21 WATERWAY AVE #300
City: THE WOODLANDS State: TX Zip:
Attention: CHAN PATEL

Requested Analyses

Cl- METHOD 300.0
TPH 8015 EXT (GRO/DRO/MRO)
HOLD FOR ANALYSIS

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	LAB USE ONLY
1	BUC-6 @ 0	2/8/18	855	PVS	S	1						✓							
2	BUC-6 @ 8		855									✓							
3	BUC-7 @ 0		903									✓							
4	BUC-7 @ 10		903									✓							
5	BUC-8 @ 6		913									✓							
6	BUC-8 @ 8		913									✓							
7	BUC-9 @ 6		923									✓							
8	BUC-9 @ 12		923									✓							
9	BUC-10 @ 6		946									✓							
10	BUC-10 @ 16		946									✓							
11	BUC-10 @ 24		946									✓							
12	BUC-11 @ 6	2/8/18	1006	PVS	S	1						✓							

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Form: SM021-0

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1		2/9/18 12:00	1 Jason Fisher	2/9/18 14:00	2 Jason Fisher	2/9/18 14:00	2	
3		2/10/18 PVS	3	2/10/18 PVS	4		4	
5	Relinquished by:	Date Time:	5	Date Time:	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp.

1.6

SGS ACCUTEST

CHAIN OF CUSTODY

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: TD16789

Client / Reporting Information

Company Name: ENTECH CONSULTING CORP
Street Address: 21 WATERWAY AVE #300
City: THE WOODLANDS State: TX Zip:
Project Contact: PETE SCHRAM E-mail: pete.schram@entectservice.com
Phone #: 210-326-7831 Fax #:
Sampler(s) Name(s): PETE SCHRAM Phone #: 2103267831

Project Information

Project Name:
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager: CHAN PATEL

Billing Information (if different from Report to)
Company Name: ENTECT Consulting Corp
Street Address: 21 WATERWAY AVE #300
City: THE WOODLANDS State: TX Zip:
Attention: CHAN PATEL

Requested Analyses: Cl⁻ METHOD 300.0; TPH 8015 EXT (GRO/DRO/MRO); HOLD FOR ANALYSIS

SGS Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Cl⁻ Method 300.0	TPH 8015 EXT (GRO/DRO/MRO)	HOLD FOR ANALYSIS	LAB USE ONLY
13	BUC-11 @ 13	2/8/18	1006	PJS	S	1						✓									✓	
14	BUC-12 @ 6	|	1025	|	|	|						✓									✓	
15	BUC-12 @ 18	|	1025	|	|	|						✓									✓	
16	BUC-13 @ 6	|	1050	|	|	|						✓									✓	
17	BUC-13 @ 20	|	1050	|	|	|						✓									✓	
18	BUC-13 @ 30	|	1050	|	|	|						✓									✓	
19	BUC-14 @ 6	|	1125	|	|	|						✓									✓	
20	BUC-14 @ 24	|	1125	|	|	|						✓									✓	
21	BUC-14 @ 32	|	1125	|	|	|						✓									✓	
22	BUC-15 @ 6	|	1245	|	|	|						✓									✓	
23	BUC-15 @ 24		1245	|	|	|						✓									✓	
24	BUC-15 @ 30	2/8/18	1245	PJS	S	1						✓									✓	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other ________

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Form: SM021-0

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1 [signature]	2/9/18 10:00	1 Jason Fisher 2/9/18	12:00	2 Jason Fisher 2/9/18	14:00	2 Fed Ex	
3 [signature]	2/10/18 1005	3 [signature]	2/10/18 1025	4		4	
Relinquished by: 5	Date Time:	Received By: 5	Date Time:	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☒	Cooler Temp. 1.6 °C

CHAIN OF CUSTODY

SGS ACCUTEST

PAGE 3 OF 3

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # TD16489

Client / Reporting Information

Company Name: Entech Consulting Corp
Street Address: 21 Waterway Ave # 300
City / State / Zip: The Woodlands TX
Project Contact / E-mail: Pete Schramm pete.schramm@entechservice.com
Phone # / Fax #: 210-326-7831
Sampler(s) Name(s) / Phone #: Pete Schramm 210-326-7831

Project Information

Project Name: CJES State AB 3600 #1
Street: Lea Co, NM
City / State:
Project #:
Client Purchase Order #:
Project Manager: Chan Patel

Billing Information (if different from Report to)

Company Name: Entech Consulting Corp
Street Address: 21 Waterway Ave. #300
City / State / Zip: The Woodlands TX
Attention: Chan Patel

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

SGS Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Cl- Method 300.0	TPH 8015 Ext (GRO/DRO/MRO)	Hold For Analysis	LAB USE ONLY
25	BUC-16 @ 4	2/8/18	1313	PWS	S	1						✓									✓	
26	BUC-16 @ 9		1313									✓									✓	
27	BUC-17 @ 6		1320									✓									✓	
28	BUC-17 @ 8		1320									✓									✓	
29	BUC-18 @ 6		1329									✓									✓	
30	BUC-18 @ 9		1329									✓									✓	
31	BUC-19 @ 6		1336									✓									✓	
32	BUC-19 @ 8		1336									✓									✓	
33	DUP -6		—									✓									✓	
34	DUP -7		—									✓									✓	
35	DUP -8	2/8/18	—	PWS	S	1						✓									✓	

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Form: SM021-0

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1		2/9/18 12:00	1	2/9/18 12:00	2	2/9/18 14:00	2	
3		2/10/18 1015	3	2/10/18 1015	4		4	
5	Relinquished By:	Date Time:	Received By:	Date Time:	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice / Cooler Temp.
			5					X / 1.6

SGS ACCUTEST

COOLER TEMP FORM

TC# TD16489

Delivered by (circle one): FedEx/UPS (circled) ALGC Driver Client

Date: 2-10-18

Client: Entech

Cooler Number: 1

Thermometer ID: IR5 CF, °C 0 Corrected Temp, °C 1.6 °C

SAMPLES CONTAINED IN COOLER

ORIGIN ... (432) 254-3075
JASON FISHER
SGS-ACCUTEST
3600 S. COUNTRY ROAD
MIDLAND, TX 79706
UNITED STATES US

SHIP DATE: 09JAN18
ACTWGT: 25.0 LB MAN
CAD: 0243296/CAFE2916

BILL SENDER

TO **SAMPLE MANAGEMENT**
SGS ACCUTEST
10165 HARWIN DRIVE
SUITE 150
HOUSTON TX 77036
(713) 271-4700 REF:
INV:
PO: DEPT:

FedEx Express

FedEx TRK# 0221 7314 4445 7903

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO SGRA

77036
TX-US IAH

pH LOT# 10D4561

Form: SM027-06 Rev 10/24/2016

SGS Sample Receipt Summary

Job Number: TD16489 **Client:** ENTECH **Project:** CJES STATE AB

Date / Time Received: **Delivery Method:** **Airbill #'s:** 731444457903

No. Coolers: 2 **Therm ID:** IR-5; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (1.6/1.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		

Quality Control Preservation	Y	or	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐		☐	☑	☐	☐
2. Trip Blank listed on COC:	☐		☐	☑		
3. Samples preserved properly:	☑		☐			
4. VOCs headspace free:	☐		☐	☑		

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Sample Receipt Log

Job #: TD16489 **Date / Time Received:** 2/10/2018 10:05:00 AM **Initials:** ec

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16489-1	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-1	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-2	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-2	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-3	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-3	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-4	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-4	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-5	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-5	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-6	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-6	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-7	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-7	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-8	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-8	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-9	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-9	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-10	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-10	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-11	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-11	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-12	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6

Sample Receipt Log

Job #: TD16489 **Date / Time Received:** 2/10/2018 10:05:00 AM **Initials:** ec

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16489-12	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-13	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-13	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-14	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-14	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-15	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-15	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-16	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-16	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-17	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-17	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-18	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-18	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-19	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-19	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-20	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-20	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-21	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-21	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-22	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-22	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-23	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-23	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6

Sample Receipt Log

Job #: TD16489 **Date / Time Received:** 2/10/2018 10:05:00 AM **Initials:** ec

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16489-24	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-24	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-25	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-25	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-26	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-26	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-27	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-27	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-28	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-28	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-29	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-29	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-30	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-30	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-31	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-31	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-32	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-32	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-33	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-33	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-34	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-34	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6
1	TD16489-35	4oz	1	SUB	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6

Sample Receipt Log

Job #: TD16489 **Date / Time Received:** 2/10/2018 10:05:00 AM **Initials:** ec

Client: ENTECH

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD16489-35	2oz	2	2-107	N/P	Note #2 - Preservative check not applicable.	IR-5	1.6	0	1.6

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16489
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP46546/GN88207	5.0	0.0	mg/kg	100	99.2	99.2	90-110%
Bromide	GP46554/GN88207	5.0	0.0	mg/kg	100	91.8	91.8	90-110%
Chloride	GP46546/GN88207	5.0	0.0	mg/kg	100	90.5	90.5	90-110%
Chloride	GP46554/GN88207	5.0	0.0	mg/kg	100	93.5	93.5	90-110%
Fluoride	GP46546/GN88207	5.0	0.0	mg/kg	100	94.8	94.8	90-110%
Fluoride	GP46554/GN88207	5.0	0.0	mg/kg	100	103	103.0	90-110%
Nitrogen, Nitrate	GP46546/GN88207	5.0	0.0	mg/kg	100	97.9	97.9	90-110%
Nitrogen, Nitrate	GP46554/GN88207	5.0	0.0	mg/kg	100	90.9	90.9	90-110%
Nitrogen, Nitrite	GP46546/GN88207	5.0	0.0	mg/kg	100	98.3	98.3	90-110%
Nitrogen, Nitrite	GP46554/GN88207	5.0	0.0	mg/kg	100	99.1	99.1	90-110%
Sulfate	GP46546/GN88207	5.0	0.0	mg/kg	100	96.1	96.1	90-110%
Sulfate	GP46554/GN88207	5.0	0.0	mg/kg	100	96.6	96.6	90-110%

Associated Samples:
Batch GP46546: TD16489-2R, TD16489-4R, TD16489-6R, TD16489-7R, TD16489-8R, TD16489-12R, TD16489-13R, TD16489-14R, TD16489-15R, TD16489-22R
Batch GP46554: TD16489-23R, TD16489-24R, TD16489-26R, TD16489-30R, TD16489-32R, TD16489-34R, TD16489-35R
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16489
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP46546/GN88207	TD16489-4R	mg/kg	62.6	62.0	1.0	0-20%
Chloride	GP46554/GN88207	TD17223-1	mg/kg	70.2	68.4	2.6	0-20%
Solids, Percent	GN87959	TD17042-1	%	69	69.5	0.7	0-5%
Solids, Percent	GN88105	TD17204-2	%	82.1	82.1	0.0	0-5%
Solids, Percent	GN88127	TD17298-1	%	79.8	79.4	0.5	0-5%

Associated Samples:
Batch GN87959: TD16489-12A, TD16489-13A, TD16489-14A, TD16489-15A
Batch GN88105: TD16489-6R, TD16489-7R
Batch GN88127: TD16489-2R, TD16489-4R, TD16489-8R, TD16489-22R, TD16489-23R, TD16489-24R, TD16489-26R, TD16489-30R, TD16489-32R, TD16489-34R, TD16489-35R
Batch GP46546: TD16489-2R, TD16489-4R, TD16489-6R, TD16489-7R, TD16489-8R, TD16489-12R, TD16489-13R, TD16489-14R, TD16489-15R, TD16489-22R
Batch GP46554: TD16489-23R, TD16489-24R, TD16489-26R, TD16489-30R, TD16489-32R, TD16489-34R, TD16489-35R
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD16489
Account: ENTECTXW - EnTech Consulting Corporation
Project: CJES State AB SWD #1/LEA Co,N Mex

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP46546/GN88207	TD16489-4R	mg/kg	62.6	112	163	90.0	80-120%
Chloride	GP46554/GN88207	TD17223-1	mg/kg	70.2	124	211	113.8	80-120%

Associated Samples:
Batch GP46546: TD16489-2R, TD16489-4R, TD16489-6R, TD16489-7R, TD16489-8R, TD16489-12R, TD16489-13R, TD16489-14R, TD16489-15R, TD16489-22R
Batch GP46554: TD16489-23R, TD16489-24R, TD16489-26R, TD16489-30R, TD16489-32R, TD16489-34R, TD16489-35R
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Scott, LA)

Includes the following where applicable:

- Chain of Custody

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: TD16489

Client / Reporting Information
Company Name: SGS North America In.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: E-mail: Trameshia.Brown@sgs.com
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information
Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

	SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	HOLD	LAB USE ONLY
1	1	BUC-6@6		2/8/18	8:55:00 AM		SO	1					x				X	
2	2	BUC-6@8		2/8/18	8:55:00 AM		SO	1					x				X	
3	3	BUC-7@6		2/8/18	9:03:00 AM		SO	1					x				X	
4	4	BUC-7@10		2/8/18	9:03:00 AM		SO	1					x				X	
5	5	BUC-8@6		2/8/18	9:13:00 AM		SO	1					x				X	
6	6	BUC-8@8		2/8/18	9:13:00 AM		SO	1					x				X	
7	7	BUC-9@6		2/8/18	9:23:00 AM		SO	1					x				X	
8	8	BUC-9@12		2/8/18	9:23:00 AM		SO	1					x				X	
9	9	BUC-10@6		2/8/18	9:46:00 AM		SO	1					x				X	
10	10	BUC-10@16		2/8/18	9:46:00 AM		SO	1					x				X	
11	11	BUC-10@24		2/8/18	9:46:00 AM		SO	1					x				X	
12	12	BUC-11@6		2/8/18	10:06:00 AM		SO	1					x				X	

Turnaround Time (Business days)
- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 2/19/2018

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions
Please split off an 2oz for CHL to keep here and send the 4oz to LA.
TPS (RXL14)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 S. Torres	2-13-18 1900	1 SGS	2 SGS		2 Delmall
3 Delmall	2/13/18 2300	3 Walter Newman 2-13-18 815	4		4
5		5	Custody Seal # CO/OC		

Intact: [X] Not intact: [ ] Preserved where applicable: [X] On Ice: [ ] Cooler Temp. 2.0, 1.8 DEGN

TD16489: Chain of Custody
Page 1 of 5
SGS Scott, LA

6.1 6

CHAIN OF CUSTODY

SGS

10165 Harwin Drive, Houston, TX 77036
TEL 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: TD16489

Client / Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact: Trameshia.Brown@sgs.com E-mail:
Phone #: 713-271-4700 Fax #:
Sampler(s) Name(s): Phone:

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	HOLD	LAB USE ONLY
13	BUC-11@13		2/8/18	10:06:00 AM		SO	1					x				X	
14	BUC-12@6		2/8/18	10:25:00 AM		SO	1					x				X	
15	BUC-12@18		2/8/18	10:25:00 AM		SO	1					x				X	
16	BUC-13@6		2/8/18	10:50:00 AM		SO	1					x				X	
17	BUC-13@20		2/8/18	10:50:00 AM		SO	1					x				X	
18	BUC-13@30		2/8/18	10:50:00 AM		SO	1					x				X	
19	BUC-14@6		2/8/18	11:25:00 AM		SO	1					x				X	
20	BUC-14@24		2/8/18	11:25:00 AM		SO	1					x				X	
21	BUC-14@32		2/8/18	11:25:00 AM		SO	1					x				X	
22	BUC-15@6		2/8/18	12:45:00 PM		SO	1					x				X	
23	BUC-15@24		2/8/18	12:45:00 PM		SO	1					x				X	
24	BUC-15@30		2/8/18	12:45:00 PM		SO	1					x				X	

Turnaround Time (Business days)

- ☐ Std. 10 Business Days
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☒ other Due 2/19/2018

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☒ Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Please split off an 2oz for CHL to keep here and send the 4oz to LA.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 2-12-18 1900	Received By: 1	Relinquished By: 2	Date Time:	Received By: 2
Relinquished by Sampler: 3	Date Time: 2/13/18 0230	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # CS/OL ☐ Intact ☐ Not intact	Preserved where applicable: NA	On Ice: ☒ Cooler Temp: 20, 18 dv 441

SGS

CHAIN OF CUSTODY

10165 Harwin Drive, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # TD16489

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 10165 Harwin Drive
City: Houston State: TX Zip: 77036
Project Contact E-mail: Trameshia.Brown@sgs.com
Phone #: 713-271-4700 Fax #
Sampler(s) Name(s) Phone

Project Information

Project Name: CJES State AB SWD #1/LEA Co,N Mex
Street
Billing Information (if different from Report to)
City State
Company Name
Project #
Street Address
Client Purchase Order #
City State Zip
Project Manager
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

	SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	HOLD	LAB USE ONLY
25	25	BUC-16@6		2/8/18	1:13:00 PM		SO	1					x				X	
26	26	BUC-16@9		2/8/18	1:13:00 PM		SO	1					x				X	
27	27	BUC-17@6		2/8/18	1:20:00 PM		SO	1					x				X	
28	28	BUC-17@8		2/8/18	1:20:00 PM		SO	1					x				X	
29	29	BUC-18@6		2/8/18	1:29:00 PM		SO	1					x				X	
30	30	BUC-18@9		2/8/18	1:29:00 PM		SO	1					x				X	
31	31	BUC-19@6		2/8/18	1:36:00 PM		SO	1					x				X	
32	32	BUC-19@8		2/8/18	1:36:00 PM		SO	1					x				X	
33	33	DUP-6		2/8/18	12:00:00 AM		SO	1					x				X	
34	34	DUP-7		2/8/18	12:00:00 AM		SO	1					x				X	
35	35	DUP-8		2/8/18	12:00:00 AM		SO	1					x				X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [x] other Due 2/19/2018

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [x] Other COMMB

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Please split off an 2oz for CHL to keep here and send the 4oz to LA.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 S. Barnes	2-7-18 1800	1 SGS	2 SGS		2 [illegible signature]
Relinquished by Sampler: 3 [illegible signature]	2/12/18 2300	Received By: 3 Walter Newman 2-13-18 0815	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # CS/DL	☑ Intact ☐ Not intact	Preserved where applicable: ND; On Ice ☑; Cooler Temp. 2.0 1.8 cN 4/4

TD16489: Chain of Custody
Page 3 of 5

SGS Sample Receipt Summary

Job Number: TD16489 **Client:** SGS NORTH AMERICA **Project:** CJES STATE AB SWD#1/LEA

Date / Time Received: 2/13/2018 8:15:00 AM **Delivery Method:** Accutest Courier **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2/2); #2: (1.8/1.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	DV441;		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Job Change Order: TD16489

Requested Date:	2/21/2018	**Received Date:**	2/10/2018
Account Name:	EnTech Consulting Corporation	**Due Date:**	2/22/2018
Project Description:	CJES State AB SWD #1/LEA Co,N Mex	**Deliverable:**	COMMB
CSR:	SylviaG	**TAT (Days):**	7

==========

Sample #: TD16489-12A, 13A, 14A , 15A **Change:**
Login V8015GRO, B8015DROORO1

Dept:

TAT: 7

==========

Above Changes Per: Client **Date/Time:** 2/21/2018 4:41:23 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

6.1

GC Volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16489
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1699-MB1	LA286825.D	1	02/22/18	SV	n/a	n/a	GLA1699

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16489-12A, TD16489-13A, TD16489-14A, TD16489-15A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	4.9	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	63-139%
540-36-3	1,4-Difluorobenzene	95%	52-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16489
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1699-BS1	LA286821.D	1	02/22/18	SV	n/a	n/a	GLA1699
GLA1699-BSD1	LA286823.D	1	02/22/18	SV	n/a	n/a	GLA1699

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16489-12A, TD16489-13A, TD16489-14A, TD16489-15A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	49.0	98	46.8	94	5	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	103%	63-139%
540-36-3	1,4-Difluorobenzene	104%	104%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: TD16489
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
TD16489-15AMS	LA286835.D	1	02/22/18	SV	n/a	n/a	GLA1699
TD16489-15AMSD	LA286837.D	1	02/22/18	SV	n/a	n/a	GLA1699
TD16489-15A	LA286833.D	1	02/22/18	SV	n/a	n/a	GLA1699

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16489-12A, TD16489-13A, TD16489-14A, TD16489-15A

CAS No.	Compound	TD16489-15A mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		113	106	93	113	104	92	2	79-121/6

CAS No.	Surrogate Recoveries	MS	MSD	TD16489-15A	Limits
460-00-4	4-Bromofluorobenzene	99%	97%	94%	63-139%
540-36-3	1,4-Difluorobenzene	103%	101%	90%	52-140%

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

(SGS Scott, LA)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: TD16489
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10567-MB	S0005087.D	1	02/22/18	JT	02/22/18	OP10567	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16489-12A, TD16489-13A, TD16489-14A, TD16489-15A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	2.82	5.0	2.5	mg/kg	J
	TPH (> C22-C36)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	80%	31-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16489
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10567-BS1	S0005088.D	1	02/22/18	JT	02/22/18	OP10567	GLG620
OP10567-BSD1	S0005089.D	1	02/22/18	JT	02/22/18	OP10567	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16489-12A, TD16489-13A, TD16489-14A, TD16489-15A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	120	127	106	127	106	0	57-119/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	88%	89%	31-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: TD16489
Account: ALGC SGS Houston, TX
Project: ENTECTXW: CJES State AB SWD #1/LEA Co,N Mex

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10567-BS2	S0005090.D	1	02/22/18	JT	02/22/18	OP10567	GLG620
OP10567-BSD2	S0005091.D	1	02/22/18	JT	02/22/18	OP10567	GLG620

The QC reported here applies to the following samples: **Method:** SW846 8015C

TD16489-12A, TD16489-13A, TD16489-14A, TD16489-15A

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (> C22-C36)	150	121	81	125	83	3	55-117/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	82%	31-130%

* = Outside of Control Limits.

Appendix A: Drilling and Geological Logs

Project: CJES State AB #1 SWD	Drilling Company: -
Location: Lea County, NM	Drilling Method: -
Station ID: B-1	Boring/Well Diameter: 2"
Date Drilled: 2/5/18	Boring/Well Total Depth: 20'
Geologist: P. Schram	Screen Length: NA

EnTech
Houston, TX · (281) 362-2714

DEPTH (feet bgs)	PID (ppm)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION/COMMENTS
0.0			
1.0			Sandstone, unconsolidated, fine grained, tan to buff, consolidated in part, caliche nodules present, dry, no odor.
2.0			
3.0	4.0		Sandstone, unconsolidated, fine grained, red to reddish brown color, consolidated in part, limestone, dry, no odor.
4.0			
5.0			
6.0			Sandstone, unconsolidated, fined grained, red to reddish brown color, sucrosic, consolidated in part dry, no odor.
7.0	4.9		
8.0			
9.0			
10.0			
11.0			Sandstone, unconsolidated, fine grained, red to reddish brown, consolidated in part, caliche nodules evident, dry, no odor.
12.0			
13.0			
14.0			
15.0	4.7		
16.0			
17.0			
18.0			
19.0			
20.0			
21.0			
22.0			
23.0			
24.0			
25.0			

Project: CJES State AB #1 SWD	Drilling Company: -
Location: Lea County, NM	Drilling Method: -
Station ID: B-2	Boring/Well Diameter: 2"
Date Drilled: 2/5/18	Boring/Well Total Depth: 20'
Geologist: P. Schram	Screen Length: NA

EnTech
Houston, TX · (281) 362-2714

DEPTH (feet bgs)	PID (ppm)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION/COMMENTS
0.0			Clayey sandstone, unconsolidated, fine grained, tan to brown, consolidated in part, caliche nodules present, dry, no odor.
1.0			Sandstone, unconsolidated, fine grained, tan to reddish brown, consolidated in part, limestone, off-white to tan, microcrystalline, dry, no odor.
2.0			
3.0	7.9		
4.0			
5.0			Sandstone, unconsolidated, fine grained, tan to brown, consolidated in part, limestone evident, dry, no odor.
6.0			
7.0			
8.0	8.2		
9.0			
10.0			Sandstone, tan to buff, unconsolidated, fine grained, consolidated in part, dry, no odor.
11.0			
12.0			
13.0			
14.0			
15.0	11.2		
16.0			
17.0			
18.0			
19.0			
20.0			
21.0			
22.0			
23.0			
24.0			
25.0			

Project: CJES State AB #1 SWD	Drilling Company: -
Location: Lea County, NM	Drilling Method: -
Station ID: B-3	Boring/Well Diameter: 2"
Date Drilled: 2/5/18	Boring/Well Total Depth: 20'
Geologist: P. Schram	Screen Length: NA

EnTech
Houston, TX · (281) 362-2714

DEPTH (feet bgs)	PID (ppm)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION/COMMENTS
0.0 – 2.0			Clayey sandstone, unconsolidated, fine grained, tan to buff, consolidated in part, caliche evident, dry, no odor.
2.0 – 5.0	4.3		Sandstone, unconsolidated, tan to buff color, fine grained, consolidated in part, limestone, off-white to tan, microcrystalline, dry, no odor.
5.0 – 10.0	13.0		Sandstone, unconsolidated, fine grained, tan to reddish brown, sucrosic, consolidated in part, dry, no odor.
10.0 – 20.0	4.6		Sandstone, unconsolidated, tan to buff color, fine grained, consolidated in part, caliche nodules evident, dry, no odor.

Project: CJES State AB #1 SWD	Drilling Company: -
Location: Lea County, NM	Drilling Method: -
Station ID: B-4	Boring/Well Diameter: 2"
Date Drilled: 2/5/18	Boring/Well Total Depth: 20'
Geologist: P. Schram	Screen Length: NA

EnTech
Houston, TX · (281) 362-2714

DEPTH (feet bgs)	PID (ppm)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION/COMMENTS
0.0 – 2.0			Clayey sandstone, unconsolidated, fine grained, tank to buff, consolidated in part, caliche evident, dry, no odor.
2.0 – 5.0	1.9		Sandstone, unconsolidated, fine grained, tank to buff color, consolidated in part, dry, no odor.
5.0 – 10.0	10.4		Sandstone, unconsolidated, fine grained, tan to reddish brown in color, sucrosic, consolidated in part, dry, no odor.
10.0 – 20.0	3.5		Sandstone, unconsolidated, tan to buff color, fine grained, consolidated in part, limestone evident, conchoidal fracture, abundant calcite, dry, no odor.
20.0 – 25.0			

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): STATE AB SWD #1 SB-1	OSE FILE NUMBER(S):
WELL OWNER NAME(S): C&J ENERGY SERVICES	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 5208 N LOVINGTON HWY	CITY: HOBBS STATE: NM ZIP: 88240-9111

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	41	40.7832	N
LONGITUDE	103	14	3992	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

APPROXIMATELY 1.9 MILES WEST OF THE HOBBS AIRPORT IN HOBBS, NEWMEXICO

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
2-5-18	2-5-18	20'	20'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	20'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	1 CEMENT		TOPLOAD
2	20'	6"	5 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6'	6'	TAN FINE SAND CALICHE - SANDSTONE	○ Y ◉ N	N/A
6'	8'	2'	TAN FINE SAND - SANDSTONE	○ Y ◉ N	N/A
8'	10'	2'	TAN VERY FINE SAND - SOFT SANDSTONE	○ Y ◉ N	N/A
10'	11'	1'	TAN VERY FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
11'	17'	6'	TAN VERY FINE SAND	○ Y ◉ N	N/A
17'	20'	3'	TAN FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
TD	20'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edward Bryan — 3-7-18

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): STATE AB SWD #1 SB-2	OSE FILE NUMBER(S):
WELL OWNER NAME(S): C&J ENERGY SERVICES	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 5208 N LOVINGTON HWY	CITY: HOBBS STATE: NM ZIP: 88240-9111

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	41	128	N
LONGITUDE	103	14	28.8204	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

APPROXIMATELY 1.9 MILES WEST OF THE HOBBS AIRPORT IN HOBBS, NEWMEXICO

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
2-5-18	2-5-18	20'	20'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	20'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	1 CEMENT		TOPLOAD
2	20'	6"	5 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2'	2	TAN BROWN CLAY FINE SAND - CALICHE - SANDSTONE	○ Y ◉ N	N/A
2'	5'	3'	TAN FINE SAND - CEMENT- SANDSTONE	○ Y ◉ N	N/A
5'	8'	3'	TAN FINE SAND - SANDSTONE	○ Y ◉ N	N/A
8'	11'	3'	TAN VERY FINE SAND	○ Y ◉ N	N/A
11'	20'	9'	TAN VERY FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
TD'	20'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edward Bryan — 3-7-18

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): STATE AB SWD #1 SB-3	OSE FILE NUMBER(S):
WELL OWNER NAME(S): C&J ENERGY SERVICES	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 5208 N LOVINGTON HWY	CITY: HOBBS STATE: NM ZIP: 88240-9111

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	41	1604	N
LONGITUDE	103	14	29.93286	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

APPROXIMATELY 1.9 MILES WEST OF THE HOBBS AIRPORT IN HOBBS, NEWMEXICO

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
2-5-18	2-5-18	20'	20'	N/A

COMPLETED WELL IS: ○ ARTESIAN ◉ DRY HOLE ○ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ◉ AIR ○ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ◉ ROTARY ○ HAMMER ○ CABLE TOOL ○ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	20'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	1 CEMENT		TOPLOAD
2	20'	6"	5 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2'	2	TAN FINE SAND - SANDSTONE - BROWN CLAY	○ Y ◉ N	N/A
2'	8'	6'	TAN FINE SAND - CEMENT- SANDSTONE	○ Y ◉ N	N/A
8'	11'	3'	TAN VERY FINE SAND	○ Y ◉ N	N/A
11'	14'	3'	TAN FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
14'	19'	9'	TAN FINE SAND - SILICEOUS SANDSTONE	○ Y ◉ N	N/A
19'	20'	1'	TAN FINE SAND - SANDSTONE	○ Y ◉ N	N/A
TD	20'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edward Bryan — 3-7-18

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): STATE AB SWD #1 SB-4	OSE FILE NUMBER(S):
WELL OWNER NAME(S): C&J ENERGY SERVICES	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 5208 N LOVINGTON HWY	CITY: HOBBS STATE: NM ZIP: 88240-9111

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	41	41.6004	N
LONGITUDE	103	14	28.3668	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

APPROXIMATELY 1.9 MILES WEST OF THE HOBBS AIRPORT IN HOBBS, NEWMEXICO

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
2-5-18	2-5-18	20'	20'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	20'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	1 CEMENT		TOPLOAD
2	20'	6"	5 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2'	2	TAN FINE SAND - CALICHE- SANDSTONE	○ Y ◉ N	N/A
2'	7'	7'	TAN FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
7'	11'	4'	TAN VERY FINE SAND -SOFT SANDSTONE	○ Y ◉ N	N/A
11'	15'	4'	TAN VERY FINE SAND	○ Y ◉ N	N/A
15'	18'	3'	TAN VERY FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
18'	20'	2'	TAN VERY FINE SAND - WEATHERED LIMESTONE	○ Y ◉ N	N/A
TD	20'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

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PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edward Bryan — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

3-7-18 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

Appendix B: Photographic documentation of the liner

Photographic Description of Liner -1

Photographic Description of Liner -2

Photographic Description of Liner -3

Photographic Description of Liner -4

Photographic Description of Liner -5

Photographic Description of Liner -6

Appendix C: Laboratory Analytical Reports

(enclosed CD only)

Following Reports are enclosed:

TD16243

TD16424

TD16439

TD16465

TD16466

TD16489

Appendix D: UTL calculations for TPH

1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation			3/8/2018 2:46:36 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	**TPH (C6-C35)**											
12												
13	**General Statistics**											
14	Total Number of Observations			17			Number of Distinct Observations			17		
15							Number of Missing Observations			0		
16	Minimum			3.92			Mean			22.17		
17	Maximum			41.27			Median			20.52		
18	SD			11.96			Std. Error of Mean			2.9		
19	Coefficient of Variation			0.539			Skewness			0.0362		
20												
21	**Normal GOF Test**											
22	Shapiro Wilk Test Statistic			0.939			**Shapiro Wilk GOF Test**					
23	5% Shapiro Wilk Critical Value			0.892			Data appear Normal at 5% Significance Level					
24	Lilliefors Test Statistic			0.152			**Lilliefors GOF Test**					
25	5% Lilliefors Critical Value			0.215			Data appear Normal at 5% Significance Level					
26	**Data appear Normal at 5% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
30	95% Student's-t UCL			27.24			95% Adjusted-CLT UCL (Chen-1995)			26.97		
31							95% Modified-t UCL (Johnson-1978)			27.24		
32												
33	**Gamma GOF Test**											
34	A-D Test Statistic			0.447			**Anderson-Darling Gamma GOF Test**					
35	5% A-D Critical Value			0.746			Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic			0.177			**Kolmogrov-Smirnoff Gamma GOF Test**					
37	5% K-S Critical Value			0.211			Detected data appear Gamma Distributed at 5% Significance Level					
38	**Detected data appear Gamma Distributed at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41	k hat (MLE)			2.866			k star (bias corrected MLE)			2.4		
42	Theta hat (MLE)			7.736			Theta star (bias corrected MLE)			9.24		
43	nu hat (MLE)			97.45			nu star (bias corrected)			81.59		
44	MLE Mean (bias corrected)			22.17			MLE Sd (bias corrected)			14.31		
45							Approximate Chi Square Value (0.05)			61.77		
46	Adjusted Level of Significance			0.0346			Adjusted Chi Square Value			59.97		
47												
48	**Assuming Gamma Distribution**											
49	95% Approximate Gamma UCL (use when n>=50))			29.29			95% Adjusted Gamma UCL (use when n<50)			30.17		
50												
51	**Lognormal GOF Test**											
52	Shapiro Wilk Test Statistic			0.914			**Shapiro Wilk Lognormal GOF Test**					

53	5% Shapiro Wilk Critical Value				0.892	Data appear Lognormal at 5% Significance Level						
54	Lilliefors Test Statistic				0.171	**Lilliefors Lognormal GOF Test**						
55	5% Lilliefors Critical Value				0.215	Data appear Lognormal at 5% Significance Level						
56	**Data appear Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data				1.366	Mean of logged Data					2.914	
60	Maximum of Logged Data				3.72	SD of logged Data					0.685	
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL				34.23	90% Chebyshev (MVUE) UCL					35.04	
64	95% Chebyshev (MVUE) UCL				40.52	97.5% Chebyshev (MVUE) UCL					48.13	
65	99% Chebyshev (MVUE) UCL				63.07							
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL				26.94	95% Jackknife UCL					27.24	
72	95% Standard Bootstrap UCL				26.8	95% Bootstrap-t UCL					27.08	
73	95% Hall's Bootstrap UCL				26.79	95% Percentile Bootstrap UCL					26.7	
74	95% BCA Bootstrap UCL				27.04							
75	90% Chebyshev(Mean, Sd) UCL				30.87	95% Chebyshev(Mean, Sd) UCL					34.81	
76	97.5% Chebyshev(Mean, Sd) UCL				40.28	99% Chebyshev(Mean, Sd) UCL					51.02	
77												
78	**Suggested UCL to Use**											
79	95% Student's-t UCL				27.24							
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

1				**Background Statistics for Uncensored Full Data Sets**								
2			**User Selected Options**									
3			Date/Time of Computation	3/8/2018 2:46:10 PM								
4			From File	WorkSheet.xls								
5			Full Precision	OFF								
6			Confidence Coefficient	95%								
7			Coverage	95%								
8			New or Future K Observations	1								
9			Number of Bootstrap Operations	2000								
10												
11	**TPH (C6-C35)**											
12												
13	**General Statistics**											
14						Total Number of Observations	17			Number of Distinct Observations	17	
15						Minimum	3.92			First Quartile	10.77	
16						Second Largest	36.87			Median	20.52	
17						Maximum	41.27			Third Quartile	31.66	
18						Mean	22.17			SD	11.96	
19						Coefficient of Variation	0.539			Skewness	0.0362	
20						Mean of logged Data	2.914			SD of logged Data	0.685	
21												
22						**Critical Values for Background Threshold Values (BTVs)**							
23						Tolerance Factor K (For UTL)	2.486			d2max (for USL)	2.475	
24												
25						**Normal GOF Test**						
26						Shapiro Wilk Test Statistic	0.939			**Shapiro Wilk GOF Test**		
27						5% Shapiro Wilk Critical Value	0.892			Data appear Normal at 5% Significance Level		
28						Lilliefors Test Statistic	0.152			**Lilliefors GOF Test**		
29						5% Lilliefors Critical Value	0.215			Data appear Normal at 5% Significance Level		
30						**Data appear Normal at 5% Significance Level**						
31												
32						**Background Statistics Assuming Normal Distribution**						
33						95% UTL with 95% Coverage	51.9			90% Percentile (z)	37.49	
34						95% UPL (t)	43.65			95% Percentile (z)	41.84	
35						95% USL	51.76			99% Percentile (z)	49.99	
36												
37						**Gamma GOF Test**						
38						A-D Test Statistic	0.447			**Anderson-Darling Gamma GOF Test**		
39						5% A-D Critical Value	0.746			Detected data appear Gamma Distributed at 5% Significance Level		
40						K-S Test Statistic	0.177			**Kolmogrov-Smirnoff Gamma GOF Test**		
41						5% K-S Critical Value	0.211			Detected data appear Gamma Distributed at 5% Significance Level		
42						**Detected data appear Gamma Distributed at 5% Significance Level**						
43												
44						**Gamma Statistics**						
45						k hat (MLE)	2.866			k star (bias corrected MLE)	2.4	
46						Theta hat (MLE)	7.736			Theta star (bias corrected MLE)	9.24	
47						nu hat (MLE)	97.45			nu star (bias corrected)	81.59	
48						MLE Mean (bias corrected)	22.17			MLE Sd (bias corrected)	14.31	
49												
50						**Background Statistics Assuming Gamma Distribution**						
51						95% Wilson Hilferty (WH) Approx. Gamma UPL	51.78			90% Percentile	41.34	
52						95% Hawkins Wixley (HW) Approx. Gamma UPL	53.78			95% Percentile	49.71	

53			95% WH Approx. Gamma UTL with		95% Coverage	69.93					99% Percentile	68.06
54			95% HW Approx. Gamma UTL with		95% Coverage	74.87						
55					95% WH USL	69.61					95% HW USL	74.48
56												
57					**Lognormal GOF Test**							
58					Shapiro Wilk Test Statistic	0.914			**Shapiro Wilk Lognormal GOF Test**			
59					5% Shapiro Wilk Critical Value	0.892			Data appear Lognormal at 5% Significance Level			
60					Lilliefors Test Statistic	0.171			**Lilliefors Lognormal GOF Test**			
61					5% Lilliefors Critical Value	0.215			Data appear Lognormal at 5% Significance Level			
62					**Data appear Lognormal at 5% Significance Level**							
63												
64					**Background Statistics assuming Lognormal Distribution**							
65			95% UTL with		95% Coverage	101.3					90% Percentile (z)	44.38
66					95% UPL (t)	63.16					95% Percentile (z)	56.92
67					95% USL	100.5					99% Percentile (z)	90.81
68												
85												

Appendix E: EPA Method 300

METHOD 300.0

DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY

John D. Pfaff
Inorganic Chemistry Branch
Chemistry Research Division

Revision 2.1
August 1993

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
OFFICE OF RESEARCH AND DEVELOPMENT
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METHOD 300.0

DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY

1.0 SCOPE AND APPLICATION

1.1 This method covers the determination of the following inorganic anions:

PART A.

Bromide	Nitrite
Chloride	Ortho-Phosphate-P
Fluoride	Sulfate
Nitrate	

PART B.

Bromate	Chlorite
Chlorate	

1.2 The matrices applicable to each method are shown below:

1.2.1 Drinking water, surface water, mixed domestic and industrial wastewaters, groundwater, reagent waters, solids (after extraction 11.7), leachates (when no acetic acid is used).

1.2.2 Drinking water and reagent waters

1.3 The single laboratory Method Detection Limit (MDL defined in Section 3.2) for the above analytes is listed in Tables 1A and 1B. The MDL for a specific matrix may differ from those listed, depending upon the nature of the sample.

1.4 Method A is recommended for drinking and wastewaters. The multilaboratory ranges tested for each anion are as follows:

Analyte	mg/L
Bromide	0.63 - 21.0
Chloride	0.78 - 26.0
Fluoride	0.26 - 8.49
Nitrate-N	0.42 - 14.0
Nitrite-N	0.36 - 12.0
Otho-Phosphate-P	0.69 - 23.1
Sulfate	2.85 - 95.0

1.5 This method is recommended for use only by or under the supervision of analysts experienced in the use of ion chromatography and in the interpretation of the resulting ion chromatograms.

1.6 When this method is used to analyze unfamiliar samples for any of the above anions, anion identification should be supported by the use of a fortified sample matrix covering the anions of interest. The fortification procedure is described in Section 11.6.

1.7 Users of the method data should state the data-quality objectives prior to analysis. Users of the method must demonstrate the ability to generate acceptable results with this method, using the procedures described in Section 9.0.

2.0 SUMMARY OF METHOD

2.1 A small volume of sample, typically 2-3 mL, is introduced into an ion chromatograph. The anions of interest are separated and measured, using a system comprised of a guard column, analytical column, suppressor device, and conductivity detector.

2.2 The main differences between Parts A and B are the separator columns and guard columns. Sections 6.0 and 7.0 will elicit the differences.

2.3 An extraction procedure must be performed to use this method for solids (See Section 11.7).

2.4 Limited performance-based method modifications may be acceptable provided they are fully documented and meet or exceed requirements expressed in Section 9.0, Quality Control.

3.0 DEFINITIONS

3.1 **Calibration Blank (CB)** -- A volume of reagent water fortified with the same matrix as the calibration standards, but without the analytes, internal standards, or surrogate analytes.

3.2 **Calibration Standard (CAL)** -- A solution prepared from the primary dilution standard solution or stock standard solutions and the internal standards and surrogate analytes. The CAL solutions are used to calibrate the instrument response with respect to analyte concentration.

3.3 **Field Duplicates (FD)** -- Two separate samples collected at the same time and placed under identical circumstances and treated exactly the same throughout field and laboratory procedures. Analyses of field duplicates indicate the precision associated with sample collection, preservation and storage, as well as with laboratory procedures.

3.4 **Instrument Performance Check Solution (IPC)** -- A solution of one or more method analytes, surrogates, internal standards, or other test substances used to evaluate the performance of the instrument system with respect to a defined set of criteria.

3.5 **Laboratory Fortified Blank (LFB)** -- An aliquot of reagent water or other blank matrices to which known quantities of the method analytes are added in the laboratory. The LFB is analyzed exactly like a sample, and its purpose is to determine whether the methodology is in control, and whether the laboratory is capable of making accurate and precise measurements.

3.6 **Laboratory Fortified Sample Matrix (LFM)** -- An aliquot of an environmental sample to which known quantities of the method analytes are added in the laboratory. The LFM is analyzed exactly like a sample, and its purpose is to determine whether the sample matrix contributes bias to the analytical results. The background concentrations of the analytes in the sample matrix must be determined in a separate aliquot and the measured values in the LFM corrected for background concentrations.

3.7 **Laboratory Reagent Blank (LRB)** -- An aliquot of reagent water or other blank matrices that are treated exactly as a sample including exposure to all glassware, equipment, solvents, reagents, internal standards, and surrogates that are used with other samples. The LRB is used to determine if method analytes or other interferences are present in the laboratory environment, the reagents, or the apparatus.

3.8 **Linear Calibration Range (LCR)** -- The concentration range over which the instrument response is linear.

3.9 **Material Safety Data Sheet (MSDS)** -- Written information provided by vendors concerning a chemical's toxicity, health hazards, physical properties, fire, and reactivity data including storage, spill, and handling precautions.

3.10 **Method Detection Limit (MDL)** -- The minimum concentration of an analyte that can be identified, measured and reported with 99% confidence that the analyte concentration is greater than zero.

3.11 **Performance Evaluation Sample (PE)** -- A solution of method analytes distributed by the Quality Assurance Research Division (QARD), Environmental Monitoring Systems Laboratory (EMSL-Cincinnati), U. S. Environmental Protection Agency, Cincinnati, Ohio, to multiple laboratories for analysis. A volume of the solution is added to a known volume of reagent water and analyzed with procedures used for samples. Results of analyses are used by QARD to determine statistically the accuracy and precision that can be expected when a method is performed by a competent analyst. Analyte true values are unknown to the analyst.

3.12 **Quality Control Sample (QCS)** -- A solution of method analytes of known concentrations that is used to fortify an aliquot of LRB or sample matrix. The QCS is obtained from a source external to the laboratory and different from the source of calibration standards. It is used to check laboratory performance with externally prepared test materials.

3.13 **Stock Standard Solution (SSS)** -- A concentrated solution containing one or more method analytes prepared in the laboratory using assayed reference materials or purchased from a reputable commercial source.

4.0 INTERFERENCES

4.1 Interferences can be caused by substances with retention times that are similar to and overlap those of the anion of interest. Large amounts of an anion can interfere with the peak resolution of an adjacent anion. Sample dilution and/or fortification can be used to solve most interference problems associated with retention times.

4.2 The water dip or negative peak that elutes near, and can interfere with, the fluoride peak can usually be eliminated by the addition of the equivalent of 1 mL of concentrated eluent (7.3 100X) to l00 mL of each standard and sample.

4.3 Method interferences may be caused by contaminants in the reagent water, reagents, glassware, and other sample processing apparatus that lead to discrete artifacts or elevated baseline in ion chromatograms.

4.4 Samples that contain particles larger than 0.45 microns and reagent solutions that contain particles larger than 0.20 microns require filtration to prevent damage to instrument columns and flow systems.

4.5 Any anion that is not retained by the column or only slightly retained will elute in the area of fluoride and interfere. Known coelution is caused by carbonate and other small organic anions. At concentrations of fluoride above 1.5 mg/L, this interference may not be significant, however, it is the responsibility of the user to generate precision and accuracy information in each sample matrix.

4.6 The acetate anion elutes early during the chromatographic run. The retention times of the anions also seem to differ when large amounts of acetate are present. Therefore, this method is not recommended for leachates of solid samples when acetic acid is used for pH adjustment.

4.7 The quantitation of unretained peaks should be avoided, such as low molecular weight organic acids (formate, acetate, propionate etc.) which are conductive and coelute with or near fluoride and would bias the fluoride quantitation in some drinking and most waste waters.

4.8 Any residual chlorine dioxide present in the sample will result in the formation of additional chlorite prior to analysis. If any concentration of chlorine dioxide is suspected in the sample purge the sample with an inert gas (argon or nitrogen) for about five minutes or until no chlorine dioxide remains.

5.0 SAFETY

5.1 The toxicity or carcinogenicity of each reagent used in this method have not been fully established. Each chemical should be regarded as a potential health hazard and exposure should be as low as reasonably achievable. Cautions are included for known extremely hazardous materials or procedures.

5.2 Each laboratory is responsible for maintaining a current awareness file of OSHA regulations regarding the safe handling of the chemicals specified in this method. A reference file of Material Safety Data Sheets (MSDS) should be made available to all personnel involved in the chemical analysis. The preparation of a formal safety plan is also advisable.

5.3 The following chemicals have the potential to be highly toxic or hazardous, consult MSDS.

5.3.1 Sulfuric acid (Section 7.4)

6.0 EQUIPMENT AND SUPPLIES

6.1 Balance -- Analytical, capable of accurately weighing to the nearest 0.000l g.

6.2 Ion chromatograph -- Analytical system complete with ion chromatograph and all required accessories including syringes, analytical columns, compressed gasses and detectors.

6.2.1 Anion guard column: A protector of the separator column. If omitted from the system the retention times will be shorter. Usually packed with a substrate the same as that in the separator column.

6.2.2 Anion separator column: This column produces the separation shown in Figures 1 and 2.

6.2.2.1 Anion analytical column (Method A): The separation shown in Figure 1 was generated using a Dionex AS4A column (P/N 37041). An optional column may be used if comparable resolution of peaks is obtained, and the requirements of Section 9.2 can be met.

6.2.2.2 Anion analytical column (Method B): The separation shown in Figure 2 was generated using a Dionex AS9 column (P/N 42025). An optional column may be used if comparable resolution of peaks is obtained and the requirements of Section 9.2 can be met.

6.2.3 Anion suppressor device: The data presented in this method were generated using a Dionex anion micro membrane suppressor (P/N 37106).

6.2.4 Detector -- Conductivity cell: Approximately 1.25 µL internal volume, (Dionex, or equivalent) capable of providing data as required in Section 9.2.

6.3 The Dionex AI-450 Data Chromatography Software was used to generate all the data in the attached tables. Systems using a stripchart recorder and integrator or other computer based data system may achieve approximately the same MDL's but the user should demonstrate this by the procedure outlined in Section 9.2.

7.0 REAGENTS AND STANDARDS

7.1 Sample bottles: Glass or polyethylene of sufficient volume to allow replicate analyses of anions of interest.

7.2 Reagent water: Distilled or deionized water, free of the anions of interest. Water should contain particles no larger than 0.20 microns.

7.3 Eluent solution (Method A and Method B): Sodium bicarbonate (CASRN 144-55-8) 1.7 mM, sodium carbonate (CASRN 497-19-8) 1.8 mM. Dissolve 0.2856 g sodium bicarbonate ($NaHCO_3$) and 0.3816 g of sodium carbonate (Na_2CO_3) in reagent water (Section 7.2) and dilute to 2 L.

7.4 Regeneration solution (micro membrane suppressor): Sulfuric acid (CASRN-7664-93-9) 0.025N. Dilute 2.8 mL conc. sulfuric acid (H_2SO_4) to 4 L with reagent water.

7.5 Stock standard solutions, l000 mg/L (1 mg/mL): Stock standard solutions may be purchased as certified solutions or prepared from ACS reagent grade materials (dried at 105°C for 30 minutes) as listed below.

7.5.1 Bromide (Br^-) 1000 mg/L: Dissolve 1.2876 g sodium bromide (NaBr, CASRN 7647-15-6) in reagent water and dilute to 1 L.

7.5.2 Bromate (BrO_3^-) 1000 mg/L: Dissolve 1.1798g of sodium bromate ($NaBrO_3$, CASRN 7789-38-0) in reagent water and dilute to 1 L.

7.5.3 Chlorate ($Cl0_3^-$) 1000 mg/L: Dissolve 1.2753g of sodium chlorate ($NaC10_3$, CASRN 7775-09-9) in reagent water and dilute to 1 L.

7.5.4 Chloride (Cl^-) l000 mg/L: Dissolve 1.6485 g sodium chloride (NaCl, CASRN 7647-l4-5) in reagent water and dilute to 1 L.

7.5.5 Chlorite ($Cl0_2^-$) 1000 mg/L: Dissolve 1.3410g of sodium chlorite ($NaC10_2$, CASRN 7758-19-2) in reagent water and dilute to 1 L.

7.5.6 Fluoride (F^-) 1000 mg/L: Dissolve 2.2100g sodium fluoride (NaF, CASRN 7681-49-4) in reagent water and dilute to 1 L.

7.5.7 Nitrate (NO_3^--N) 1000 mg/L: Dissolve 6.0679 g sodium nitrate ($NaNO_3$, CASRN 7631-99-4) in reagent water and dilute to 1 L.

7.5.8 Nitrite (NO_2^--N) 1000 mg/L: Dissolve 4.9257 g sodium nitrite ($NaNO_2$, CASRN 7632-00-0) in reagent water and dilute to 1 L.

7.5.9 Phosphate ($PO^{=}_{4}$-P) 1000 mg/L: Dissolve 4.3937 g potassium phosphate (KH_2PO_4, CASRN 7778-77-0) in reagent water and dilute to 1 L.

7.5.10 Sulfate ($SO_4^{=}$) 1000 mg/L: Dissolve 1.8141 g potassium sulfate (K_2SO_4, CASRN 7778-80-5) in reagent water and dilute to 1 L.

Note: Stability of standards: Stock standards (7.5) are stable for at least one month when stored at 4°C. Except for the chlorite standard which is only stable for two weeks. Dilute working standards should be prepared weekly, except those that contain nitrite and phosphate should be prepared fresh daily.

7.6 Ethylenediamine preservation solution: Dilute 10 mL of ethylenediamine (99%) (CASRN 107-15-3) to 200 mL with reagent water. Use 1 mL of this dilution to each 1 L of sample taken.

8.0 SAMPLE COLLECTION, PRESERVATION AND STORAGE

8.1 Samples should be collected in plastic or glass bottles. All bottles must be thoroughly cleaned and rinsed with reagent water. Volume collected should be sufficient to insure a representative sample, allow for replicate analysis, if required, and minimize waste disposal.

8.2 Sample preservation and holding times for the anions that can be determined by this method are as follows:

Analyte	Preservation	Holding Time
Bromate	None required	28 days
Bromide	None required	28 days
Chlorate	None required	28 days
Chloride	None required	28 days
Chlorite	Cool to 4°C	immediately
Fluoride	None required	28 days
Nitrate-N	Cool to 4°C	48 hours
Combined (Nitrate/Nitrite)	conc. H_2SO_4 to a pH <2	28 days
Nitrite-N	Cool to 4°C	48 hours
0-Phosphate-P	Cool to 4°C	48 hours
Sulfate	Cool to 4°C	28 days

Note: If the determined value for the combined nitrate/nitrite exceeds 0.5 mg/L as N^-, a resample must be analyzed for the individual concentrations of nitrate and nitrite.

8.3 The method of preservation and the holding time for samples analyzed by this method are determined by the anions of interest. In a given sample, the anion that requires the most preservation treatment and the shortest holding time will determine the preservation treatment. It is recommended that all samples

be cooled to 4°C and held for no longer than 28 days for Method A and analyzed immediately in Method B.

Note: If the sample cannot be analyzed for chlorite within ≤10 minutes, the sample may be preserved by adding 1 mL of the ethylenediamine (EDA) preservation solution (Section 7.6) to 1 L of sample. This will preserve the concentration of the chlorite for up to 14 days. This addition of EDA has no effect on bromate or chlorate, so they can also be determined in a sample preserved with EDA. Residual chlorine dioxide should be removed from the sample (per Section 4.8) prior to the addition of EDA.

9.0 QUALITY CONTROL

9.1 Each laboratory using this method is required to operate a formal quality control (QC) program. The minimum requirements of this program consist of an initial demonstration of laboratory capability, and the periodic analysis of laboratory reagent blanks, fortified blanks and other laboratory solutions as a continuing check on performance. The laboratory is required to maintain performance records that define the quality of the data that are generated.

9.2 INITIAL DEMONSTRATION OF PERFORMANCE

9.2.1 The initial demonstration of performance is used to characterize instrument performance (determination of LCRs and analysis of QCS) and laboratory performance (determination of MDLs) prior to performing analyses by this method.

9.2.2 Linear Calibration Range (LCR) -- The LCR must be determined initially and verified every six months or whenever a significant change in instrument response is observed or expected. The initial demonstration of linearity must use sufficient standards to insure that the resulting curve is linear. The verification of linearity must use a minimum of a blank and three standards. If any verification data exceeds the initial values by ±10%, linearity must be reestablished. If any portion of the range is shown to be nonlinear, sufficient standards must be used to clearly define the nonlinear portion.

9.2.3 Quality Control Sample (QCS) -- When beginning the use of this method, on a quarterly basis or as required to meet data-quality needs, verify the calibration standards and acceptable instrument performance with the preparation and analyses of a QCS. If the determined concentrations are not within ±10% of the stated values, performance of the determinative step of the method is unacceptable. The source of the problem must be identified and corrected before either proceeding with the initial determination of MDLs or continuing with on-going analyses.

9.2.4 Method Detection Limit (MDL) -- MDLs must be established for all analytes, using reagent water (blank) fortified at a concentration of two

to three times the estimated instrument detection limit.[6] To determine MDL values, take seven replicate aliquots of the fortified reagent water and process through the entire analytical method. Perform all calculations defined in the method and report the concentration values in the appropriate units. Calculate the MDL as follows:

$$MDL = (t) \times (S)$$

where, t = Student's t value for a 99% confidence level and a standard deviation estimate with n-1 degrees of freedom [t= 3.14 for seven replicates]

S = standard deviation of the replicate analyses

MDLs should be determined every six months, when a new operator begins work or whenever there is a significant change in the background or instrument response.

9.3 ASSESSING LABORATORY PERFORMANCE

9.3.1 Laboratory Reagent Blank (LRB) -- The laboratory must analyze at least one LRB with each batch of samples. Data produced are used to assess contamination from the laboratory environment. Values that exceed the MDL indicate laboratory or reagent contamination should be suspected and corrective actions must be taken before continuing the analysis.

9.3.2 Laboratory Fortified Blank (LFB) -- The laboratory must analyze at least one LFB with each batch of samples. Calculate accuracy as percent recovery (Section 9.4.2). If the recovery of any analyte falls outside the required control limits of 90-110%, that analyte is judged out of control, and the source of the problem should be identified and resolved before continuing analyses.

9.3.3 The laboratory must use LFB analyses data to assess laboratory performance against the required control limits of 90-110%. When sufficient internal performance data become available (usually a minimum of 20-30 analyses), optional control limits can be developed from the percent mean recovery (x) and the standard deviation (S) of the mean recovery. These data can be used to establish the upper and lower control limits as follows:

UPPER CONTROL LIMIT = x + 3S
LOWER CONTROL LIMIT = x - 3S

The optional control limits must be equal to or better than the required control limits of 90-110%. After each five to 10 new recovery measurements, new control limits can be calculated using only the most recent 20-30 data points. Also, the standard deviation (S) data should

be used to establish an on-going precision statement for the level of concentrations included in the LFB. These data must be kept on file and be available for review.

9.3.4 Instrument Performance Check Solution (IPC) -- For all determinations the laboratory must analyze the IPC (a mid-range check standard) and a calibration blank immediately following daily calibration, after every tenth sample (or more frequently, if required) and at the end of the sample run. Analysis of the IPC solution and calibration blank immediately following calibration must verify that the instrument is within ±10% of calibration. Subsequent analyses of the IPC solution must verify the calibration is still within ±10%. If the calibration cannot be verified within the specified limits, reanalyze the IPC solution. If the second analysis of the IPC solution confirms calibration to be outside the limits, sample analysis must be discontinued, the cause determined and/or in the case of drift, the instrument recalibrated. All samples following the last acceptable IPC solution must be reanalyzed. The analysis data of the calibration blank and IPC solution must be kept on file with the sample analyses data.

9.4 ASSESSING ANALYTE RECOVERY AND DATA QUALITY

9.4.1 Laboratory Fortified Sample Matrix (LFM) -- The laboratory must add a known amount of analyte to a minimum of 10% of the routine samples. In each case the LFM aliquot must be a duplicate of the aliquot used for sample analysis. The analyte concentration must be high enough to be detected above the original sample and should not be less than four times the MDL. The added analyte concentration should be the same as that used in the laboratory fortified blank.

9.4.1.1 If the concentration of fortification is less than 25% of the background concentration of the matrix the matrix recovery should not be calculated.

9.4.2 Calculate the percent recovery for each analyte, corrected for concentrations measured in the unfortified sample, and compare these values to the designated LFM recovery range 90-110%. Percent recovery may be calculated using the following equation:

$$R = \frac{C_s - C}{s} x100$$

where, R = percent recovery
C_s = fortified sample concentration
C = sample background concentration
s = concentration equivalent of analyte added to sample

9.4.3 Until sufficient data becomes available (usually a minimum of 20-30 analysis), assess laboratory performance against recovery limits for Method A of 80-120% and 75-125% for Method B. When sufficient internal performance data becomes available develop control limits from percent mean recovery and the standard deviation of the mean recovery.

9.4.4 If the recovery of any analyte falls outside the designated LFM recovery range and the laboratory performance for that analyte is shown to be in control (Section 9.3), the recovery problem encountered with the LFM is judged to be either matrix or solution related, not system related.

9.4.5 Where reference materials are available, they should be analyzed to provide additional performance data. The analysis of reference samples is a valuable tool for demonstrating the ability to perform the method acceptably.

9.4.6 In recognition of the rapid advances occurring in chromatography, the analyst is permitted certain options, such as the use of different columns and/or eluents, to improve the separations or lower the cost of measurements. Each time such modifications to the method are made, the analyst is required to repeat the procedure in Section 9.2.

9.4.7 It is recommended that the laboratory adopt additional quality assurance practices for use with this method. The specific practices that are most productive depend upon the needs of the laboratory and the nature of the samples. Field duplicates may be analyzed to monitor the precision of the sampling technique. When doubt exists over the identification of a peak in the chromatogram, confirmatory techniques such as sample dilution and fortification, must be used. Whenever possible, the laboratory should perform analysis of quality control check samples and participate in relevant performance evaluation sample studies.

9.4.8 At least quarterly, replicates of LFBs should be analyzed to determine the precision of the laboratory measurements. Add these results to the on-going control charts to document data quality.

9.4.9 When using Part B, the analyst should be aware of the purity of the reagents used to prepare standards. Allowances must be made when the solid materials are less than 99% pure.

10.0 CALIBRATION AND STANDARDIZATION

10.1 Establish ion chromatographic operating parameters equivalent to those indicated in Tables 1A or 1B.

10.2 For each analyte of interest, prepare calibration standards at a minimum of three concentration levels and a blank by adding accurately measured volumes of one or more stock standards (Section 7.5) to a volumetric flask and diluting

to volume with reagent water. If a sample analyte concentration exceeds the calibration range the sample may be diluted to fall within the range. If this is not possible then three new calibration concentrations must be chosen, two of which must bracket the concentration of the sample analyte of interest. Each attenuation range of the instrument used to analyze a sample must be calibrated individually.

10.3 Using injections of 0.1-1.0 mL (determined by injection loop volume) of each calibration standard, tabulate peak height or area responses against the concentration. The results are used to prepare a calibration curve for each analyte. During this procedure, retention times must be recorded.

10.4 The calibration curve must be verified on each working day, or whenever the anion eluent is changed, and after every 20 samples. If the response or retention time for any analyte varies from the expected values by more than ±10%, the test must be repeated, using fresh calibration standards. If the results are still more than ±10%, a new calibration curve must be prepared for that analyte.

10.5 Nonlinear response can result when the separator column capacity is exceeded (overloading). The response of the detector to the sample when diluted 1:1, and when not diluted, should be compared. If the calculated responses are the same, samples of this total anionic concentration need not be diluted.

11.0 PROCEDURE

11.1 Tables 1A and 1B summarize the recommended operating conditions for the ion chromatograph. Included in these tables are estimated retention times that can be achieved by this method. Other columns, chromatographic conditions, or detectors may be used if the requirements of Section 9.2 are met.

11.2 Check system calibration daily and, if required, recalibrate as described in Section 10.0.

11.3 Load and inject a fixed amount of well mixed sample. Flush injection loop thoroughly, using each new sample. Use the same size loop for standards and samples. Record the resulting peak size in area or peak height units. An automated constant volume injection system may also be used.

11.4 The width of the retention time window used to make identifications should be based upon measurements of actual retention time variations of standards over the course of a day. Three times the standard deviation of a retention time can be used to calculate a suggested window size for each analyte. However, the experience of the analyst should weigh heavily in the interpretation of chromatograms.

11.5 If the response for the peak exceeds the working range of the system, dilute the sample with an appropriate amount of reagent water and reanalyze.

11.6 If the resulting chromatogram fails to produce adequate resolution, or if identification of specific anions is questionable, fortify the sample with an appropriate amount of standard and reanalyze.

Note: Retention time is inversely proportional to concentration. Nitrate and sulfate exhibit the greatest amount of change, although all anions are affected to some degree. In some cases this peak migration may produce poor resolution or identification.

11.7 The following extraction should be used for solid materials. Add an amount of reagent water equal to 10 times the weight of dry solid material taken as a sample. This slurry is mixed for 10 minutes using a magnetic stirring device. Filter the resulting slurry before injecting using a 0.45 µ membrane type filter. This can be the type that attaches directly to the end of the syringe. Care should be taken to show that good recovery and identification of peaks is obtained with the user's matrix through the use of fortified samples.

11.8 It has been reported that lower detection limits for bromate (≈7 µg/L) can be obtained using a borate based eluent[7]. The use of this eluent or other eluents that improve method performance may be considered as a minor modification of the method and as such still are acceptable.

11.9 Should more complete resolution be needed between peaks the eluent (7.3) can be diluted. This will spread out the run but will also cause the later eluting anions to be retained longer. The analyst must determine to what extent the eluent is diluted. This dilution should not be considered a deviation from the method.

12.0 DATA ANALYSIS AND CALCULATIONS

12.1 Prepare a calibration curve for each analyte by plotting instrument response against standard concentration. Compute sample concentration by comparing sample response with the standard curve. Multiply answer by appropriate dilution factor.

12.2 Report only those values that fall between the lowest and the highest calibration standards. Samples exceeding the highest standard should be diluted and reanalyzed.

12.3 Report results in mg/L.

12.4 Report NO_2^- as N
NO_3^- as N
HPO_4 as P

13.0 METHODS PERFORMANCE

13.1 Tables 1A and 2A give the single laboratory (EMSL-Cincinnati) MDL for each anion included in the method under the conditions listed.

13.2 Tables 2A and 2B give the single laboratory (EMSL-Cincinnati) standard deviation for each anion included in the method in a variety of waters for the listed conditions.

13.3 Multiple laboratory accuracy and bias data (S_t) and estimated single operator values (S_o) for reagent, drinking and waste water using Method A are given for each anion in Tables 3 through 9. Data from 19 laboratories were used for this data.

13.4 Some of the bias statements, for example chloride and sulfate, may be misleading due to spiking small increments of the anion into large naturally occurring concentrations of the same anion.

14.0 POLLUTION PREVENTION

14.1 Pollution prevention encompasses any technique that reduces or eliminates the quantity or toxicity of waste at the point of generation. Numerous opportunities for pollution prevention exist in laboratory operation. The EPA has established a preferred hierarchy of environmental management techniques that places pollution prevention as the management option of first choice. Whenever feasible, laboratory personnel should use pollution prevention techniques to address their waste generation. When wastes cannot be feasibly reduced at the source, the Agency recommends recycling as the next best option.

14.2 Quantity of the chemicals purchased should be based on expected usage during its shelf life and disposal cost of unused material. Actual reagent preparation volumes should reflect anticipated usage and reagent stability.

14.3 For information about pollution prevention that may be applicable to laboratories and research institutions, consult "Less is Better: Laboratory Chemical Management for Waste Reduction," available from the American Chemical Society's Department of Government Regulations and Science Policy, 1155 16th Street N.W., Washington, D.C. 20036, (202) 872-4477.

15.0 WASTE MANAGEMENT

15.1 The Environmental Protection Agency requires that laboratory waste management practices be conducted consistent with all applicable rules and regulations. Excess reagents, samples and method process wastes should be characterized and disposed of in an acceptable manner. The Agency urges laboratories to protect the air, water, and land by minimizing and controlling all releases from hoods and bench operations, complying with the letter and spirit of any waste discharge permit and regulations, and by complying with all solid and hazardous waste regulations, particularly the hazardous waste identification rules and land disposal restrictions. For further information on waste management consult the "Waste Management Manual for Laboratory Personnel", available from the American Chemical Society at the address listed in Section 14.3.

16.0 REFERENCES

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4. Method Detection Limit (MDL) as described in "Trace Analyses for Wastewater", J. Glaser, D. Foerst, G. McKee, S. Quave, W. Budde, Environmental Science and Technology, Vol. 15, Number 12, page 1426, December, 1981.

5. American Society for Testing and Materials. Test Method for Anions in Water by Chemically-Suppressed Ion Chromatography D4327-91. Annual Book of Standards, Vol 11.01 (1993).

6. Code of Federal Regulations 40, Ch. 1, Pt. 136, Appendix B.

7. Hautman, D.P. & Bolyard, M. Analysis of Oxyhalide Disinfection By-products and other Anions of Interest in Drinking Water by Ion Chromatography. Jour. of Chromatog., 602, (1992), 65-74.

17.0 TABLES, DIAGRAMS, FLOWCHARTS AND VALIDATION DATA

TABLE 1A. CHROMATOGRAPHIC CONDITIONS AND DETECTION LIMITS IN REAGENT WATER (PART A)

Analyte	Peak #*	Retention Time (min)	MDL (mg/L)
Fluoride	1	1.2	0.01
Chloride	2	1.7	0.02
Nitrite-N	3	2.0	0.004
Bromide	4	2.9	0.01
Nitrate-N	5	3.2	0.002
o-Phosphate-P	6	5.4	0.003
Sulfate	7	6.9	0.02

Standard Conditions:

Columns: as specified in Sesction 6.2.2.1
Detector: as specified in Section 6.2.4 Pump Rate: 2.0 mL/min.
Eluent: as specified in Section 7.3 Sample Loop: 50 µL

MDL calculated from data system using a y-axis selection of 1000 ns and with a stripchart recorder with an attenuator setting of 1 uMHO full scale.
*See Figure 1

TABLE 1B. CHROMATOGRAPHIC CONDITIONS AND DETECTION LIMITS IN REAGENT WATER (PART B)

Analyte	Peak #*	Retention Time (min)	MDL (mg/L)
Chlorite	1	2.8	0.01
Bromate	2	3.2	0.02
Chlorate	4	7.1	0.003

Standard Conditions:

Column: as specified in Section 6.2.2.2
Detector: as specified in Section 6.2.4 Pump Rate: 1.0 mL/min.
Eluent: as specified in Section 7.3 Sample Loop: 50 µL
Attentuation - 1
y-axis - 500 ns

*See Figure 2

TABLE 2A. SINGLE-OPERATOR ACCURACY AND BIAS OF STANDARD ANIONS (METHOD A)

Analyte	Sample Type	Known Conc. (mg/L)	Number of Replicates	Mean Recovery %	Standard Deviation (mg/L)
Bromide	RW	5.0	7	99	0.08
	DW	5.0	7	105	0.10
	SW	5.0	7	95	0.13
	WW	5.0	7	105	0.34
	GW	5.0	7	92	0.34
	SD	2.0	7	82	0.06
Chloride	RW	20.0	7	96	0.35
	DW	20.0	7	108	1.19
	SW	10.0	7	86	0.33
	WW	20.0	7	101	5.2
	GW	20.0	7	114	1.3
	SD	20.0	7	90	0.32
Fluoride	RW	2.0	7	91	0.05
	DW	1.0	7	92	0.06
	SW	1.0	7	73	0.05
	WW	1.0	7	87	0.07
	GW	0.4	7	95	0.07
	SD	5.0	7	101	0.35
Nitrate-N	RW	10.0	7	103	0.21
	DW	10.0	7	104	0.27
	SW	10.0	7	93	0.17
	WW	10.0	7	101	0.82
	GW	10.0	7	97	0.47
	SD	10.0	7	82	0.28
Nitrite	RW	10.0	7	97	0.14
	DW	10.0	7	121	0.25
	SW	5.0	7	92	0.14
	WW	5.0	7	91	0.50
	GW	10.0	7	96	0.35
	SD	2.0	7	98	0.08
o-Phosphate-P	RW	10.0	7	99	0.17
	DW	10.0	7	99	0.26
	SW	10.0	7	98	0.22
	WW	10.0	7	106	0.85
	GW	10.0	7	95	0.33
Sulfate	RW	20.0	7	99	0.40
	DW	50.0	7	105	3.35
	SW	40.0	7	95	1.7
	WW	40.0	7	102	6.4
	GW	40.0	7	112	3.2

TABLE 2A. SINGLE-OPERATOR ACCURACY AND BIAS OF STANDARD ANIONS (METHOD A)

Analyte	Sample Type	Known Conc. (mg/L)	Number of Replicates	Mean Recovery %	Standard Deviation (mg/L)

RW = Reagent Water
WW = Mixed Domestic and Industrial Wastewater
DW = Drinking Water
GW = Groundwater
SW = Surface Water
SD = USEPA QC Solid (shale)

TABLE 2B. SINGLE-OPERATOR ACCURACY AND BIAS OF BY-PRODUCT (PART B)

Analyte	Sample Type	Spike (mg/L)	Number of Replicates	Mean Recovery %	Standard Deviation (mg/L)
Bromide	RW	5.0	7	103	0.07
		1.0	7	98	0.04
		0.1	7	155	0.005
		0.05	7	122	0.01
	DW	5.0	7	95	0.04
		1.0	7	85	0.02
		0.1	7	98	0.005
		0.05	7	98	0.005
Chlorate	RW	5.0	7	101	0.06
		1.0	7	97	0.01
		0.1	7	100	0.01
		0.05	7	119	0.05
	DW	5.0	7	101	0.04
		1.0	7	115	0.01
		0.1	7	121	0.005
		0.05	7	110	0.01
Chlorite	RW	5.0	7	100	0.04
		1.0	7	98	0.01
		0.1	7	86	0.01
		0.05	7	94	0.01
	DW	5.0	7	96	0.03
		1.0	7	100	0.02
		0.1	7	76	0.00
		0.05	7	96	0.01

RW = Reagent Water
DW = Drinking Water

TABLE 3. MULTIPLE LABORATORY (n=19) DETERMINATION OF BIAS FOR FLUORIDE

Water	Amount Added mg/L	Amount Found mg/L	S_t	S_o	Bias %
Reagent	0.26	0.25	0.08	0.11	-3.8
	0.34	0.29	0.11		-14.7
	2.12	2.12	0.07	0.12	0.0
	2.55	2.48	0.14		-2.7
	6.79	6.76	0.20	0.19	-0.4
	8.49	8.46	0.30		-0.4
Drinking	0.26	0.24	0.08	0.05	-7.7
	0.34	0.34	0.11		0.0
	2.12	2.09	0.18	0.06	-1.4
	2.55	2.55	0.16		0.0
	6.79	6.84	0.54	0.25	+0.7
	8.49	8.37	0.75		-1.4
Waste	0.26	0.25	0.15	0.06	-3.8
	0.34	0.32	0.08		-5.9
	2.12	2.13	0.22	0.15	+0.5
	2.55	2.48	0.16		-2.7
	6.79	6.65	0.41	0.20	-2.1
	8.49	8.27	0.36		-2.6

TABLE 4. MULTIPLE LABORATORY (n=19) DETERMINATION OF BIAS FOR CHLORIDE

Water	Amount Added mg/L	Amount Found mg/L	S_t	S_o	Bias %
Reagent	0.78	0.79	0.17	0.29	+1.3
	1.04	1.12	0.46		+7.7
	6.50	6.31	0.27	0.14	-2.9
	7.80	7.76	0.39		-0.5
	20.8	20.7	0.54	0.62	-0.5
	26.0	25.9	0.58		-0.4
Drinking	0.78	0.54	0.35	0.20	-30.8
	1.04	0.51	0.38		-51.0
	6.50	5.24	1.35	1.48	-19.4
	7.80	6.02	1.90		-22.8
	20.8	20.0	2.26	1.14	-3.8
	26.0	24.0	2.65		-7.7
Waste	0.78	0.43	0.32	0.39	-44.9
	1.04	0.65	0.48		-37.5
	6.50	4.59	1.82	0.83	-29.4
	7.80	5.45	2.02		-30.1
	20.8	18.3	2.41	1.57	-11.8
	26.0	23.0	2.50		-11.5

TABLE 5. MULTIPLE LABORATORY (n=19) DETERMINATION OF BIAS FOR NITRITE-NITROGEN

Water	Amount Added mg/L	Amount Found mg/L	S_t	S_o	Bias %
Reagent	0.36	0.37	0.04	0.04	+2.8
	0.48	0.48	0.06		0.0
	3.00	3.18	0.12	0.06	+6.0
	3.60	3.83	0.12		+6.4
	9.60	9.84	0.36	0.26	+2.5
	12.0	12.1	0.27		+0.6
Drinking	0.36	0.30	0.13	0.03	-16.7
	0.48	0.40	0.14		-16.7
	3.00	3.02	0.23	0.12	+0.7
	3.60	3.62	0.22		+0.6
	9.60	9.59	0.44	0.28	-0.1
	12.0	11.6	0.59		-3.1
Waste	0.36	0.34	0.06	0.04	-5.6
	0.48	0.46	0.07		-4.2
	3.00	3.18	0.13	0.10	+6.0
	3.60	3.76	0.18		+4.4
	9.60	9.74	0.49	0.26	+1.5
	12.0	12.0	0.56		+0.3

TABLE 6. MULTIPLE LABORATORY (n=19) DETERMINATION OF BIAS FOR BROMIDE

Water	Amount Added mg/L	Amount Found mg/L	S_t	S_o	Bias %
Reagent	0.63	0.69	0.11	0.05	+9.5
	0.84	0.85	0.12		+1.2
	5.24	5.21	0.22	0.21	-0.6
	6.29	6.17	0.35		-1.9
	16.8	17.1	0.70	0.36	+1.6
	21.0	21.3	0.93		+1.5
Drinking	0.63	0.63	0.13	0.04	0.0
	0.84	0.81	0.13		-3.6
	5.24	5.11	0.23	0.13	-2.5
	6.29	6.18	0.30		-1.7
	16.8	17.0	0.55	0.57	+0.9
	21.0	20.9	0.65		-0.4
Waste	0.63	0.63	0.15	0.09	0.0
	0.84	0.85	0.15		+1.2
	5.24	5.23	0.36	0.11	-0.2
	6.29	6.27	0.46		-0.3
	16.8	16.6	0.69	0.43	-1.0
	21.0	21.1	0.63		+0.3

TABLE 7. MULTIPLE LABORATORY (n=19) DETERMINATION OF BIAS FOR NITRATE-NITROGEN

Water	Amount Added mg/L	Amount Found mg/L	S_t	S_o	Bias %
Reagent	0.42	0.42	0.04	0.02	0.0
	0.56	0.56	0.06		0.0
	3.51	3.34	0.15	0.08	-4.8
	4.21	4.05	0.28		-3.8
	11.2	11.1	0.47	0.34	-1.1
	14.0	14.4	0.61		+2.6
Drinking	0.42	0.46	0.08	0.03	+9.5
	0.56	0.58	0.09		+3.6
	3.51	3.45	0.27	0.10	-1.7
	4.21	4.21	0.38		0.0
	11.2	11.5	0.50	0.48	+2.3
	14.0	14.2	0.70		+1.6
Waste	0.42	0.36	0.07	0.06	-14.6
	0.56	0.40	0.16		-28.6
	3.51	3.19	0.31	0.07	-9.1
	4.21	3.84	0.28		-8.8
	11.2	10.9	0.35	0.51	-3.0
	14.0	14.1	0.74		+0.4

TABLE 8. MULTIPLE LABORATORY (n=19) DETERMINATION OF BIAS FOR ORTHO-PHOSPHATE

Water	Amount Added mg/L	Amount Found mg/L	S_t	S_o	Bias %
Reagent	0.69	0.69	0.06	0.06	0.0
	0.92	0.98	0.15		+6.5
	5.77	5.72	0.36	0.18	-0.9
	6.92	6.78	0.42		-2.0
	18.4	18.8	1.04	0.63	+2.1
	23.1	23.2	0.35		+2.4
Drinking	0.69	0.70	0.17	0.17	+1.4
	0.92	0.96	0.20		+4.3
	5.77	5.43	0.52	0.40	-5.9
	6.92	6.29	0.72		-9.1
	18.4	18.0	0.68	0.59	-2.2
	23.1	22.6	1.07		-2.0
Waste	0.69	0.64	0.26	0.09	-7.2
	0.92	0.82	0.28		-10.9
	5.77	5.18	0.66	0.34	-10.2
	6.92	6.24	0.74		-9.8
	18.4	17.6	2.08	1.27	-4.1
	23.1	22.4	0.87		-3.0

TABLE 9. MULTIPLE LABORATORY (n=19) DETERMINATION OF BIAS FOR SULFATE

Water	Amount Added mg/L	Amount Found mg/L	S_t	S_o	Bias %
Reagent	2.85	2.83	0.32	0.52	-0.7
	3.80	3.83	0.92		+0.8
	23.8	24.0	1.67	0.68	+0.8
	28.5	28.5	1.56		-0.1
	76.0	76.8	3.42	2.33	+1.1
	95.0	95.7	3.59		+0.7
Drinking	2.85	1.12	0.37	0.41	-60.7
	3.80	2.26	0.97		-40.3
	23.8	21.8	1.26	0.51	-8.4
	28.5	25.9	2.48		-9.1
	76.0	74.5	4.63	2.70	-2.0
	95.0	92.3	5.19		-2.8
Waste	2.85	1.89	0.37	0.24	-33.7
	3.80	2.10	1.25		-44.7
	23.8	20.3	3.19	0.58	-14.7
	28.5	24.5	3.24		-14.0
	76.0	71.4	5.65	3.39	-6.1
	95.0	90.3	6.80		-5.0

Method A

Peak	Ret. Time	Ion	mg/L
1	1.17	F^-	2
2	1.73	Cl^-	20
3	2.02	NO_2^-	2
4	2.95	Br^-	2
5	3.20	NO_3^-	10
6	5.38	HPO_4^{2-}	2
7	6.92	SO_4^{2-}	60

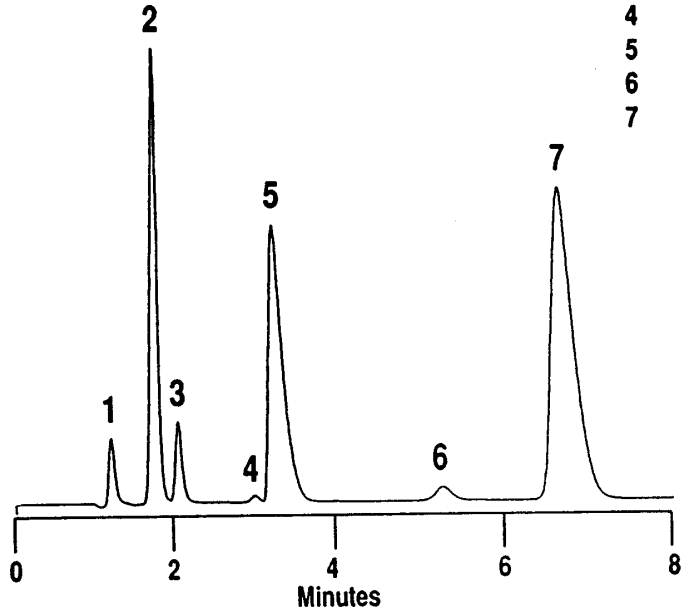

Figure 1. Chromatogram showing separation using the AS4A column

Method B

Peak	Ret. Time	Ion	mg/L
1	2.75	ClO_2^-	0.1
2	3.23	BrO_3^-	0.1
3	3.63	Cl^-	0.1
4	7.08	ClO_3^-	0.1

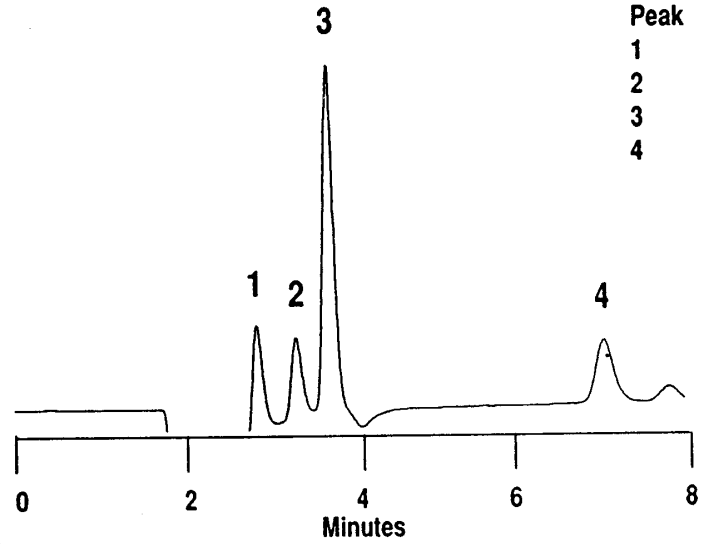

Figure 2. Chromatogram showing separation using the AS9 column

Appendix F: UTL Calculations for Chlorides

1	**UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation			3/8/2018 3:01:31 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	**chlorides**											
12												
13	**General Statistics**											
14	Total Number of Observations			16			Number of Distinct Observations			15		
15							Number of Missing Observations			0		
16	Minimum			2.55			Mean			32.01		
17	Maximum			191			Median			12.65		
18	SD			46.94			Std. Error of Mean			11.73		
19	Coefficient of Variation			1.466			Skewness			2.956		
20												
21	**Normal GOF Test**											
22	Shapiro Wilk Test Statistic			0.606			**Shapiro Wilk GOF Test**					
23	5% Shapiro Wilk Critical Value			0.887			Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic			0.273			**Lilliefors GOF Test**					
25	5% Lilliefors Critical Value			0.222			Data Not Normal at 5% Significance Level					
26	**Data Not Normal at 5% Significance Level**											
27												
28	**Assuming Normal Distribution**											
29	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
30	95% Student's-t UCL			52.58			95% Adjusted-CLT UCL (Chen-1995)			60.58		
31							95% Modified-t UCL (Johnson-1978)			54.03		
32												
33	**Gamma GOF Test**											
34	A-D Test Statistic			0.703			**Anderson-Darling Gamma GOF Test**					
35	5% A-D Critical Value			0.767			Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic			0.191			**Kolmogrov-Smirnoff Gamma GOF Test**					
37	5% K-S Critical Value			0.222			Detected data appear Gamma Distributed at 5% Significance Level					
38	**Detected data appear Gamma Distributed at 5% Significance Level**											
39												
40	**Gamma Statistics**											
41	k hat (MLE)			0.917			k star (bias corrected MLE)			0.787		
42	Theta hat (MLE)			34.91			Theta star (bias corrected MLE)			40.69		
43	nu hat (MLE)			29.34			nu star (bias corrected)			25.17		
44	MLE Mean (bias corrected)			32.01			MLE Sd (bias corrected)			36.09		
45							Approximate Chi Square Value (0.05)			14.74		
46	Adjusted Level of Significance			0.0335			Adjusted Chi Square Value			13.84		
47												
48	**Assuming Gamma Distribution**											
49	95% Approximate Gamma UCL (use when n>=50)			54.65			95% Adjusted Gamma UCL (use when n<50)			58.22		
50												
51	**Lognormal GOF Test**											
52	Shapiro Wilk Test Statistic			0.97			**Shapiro Wilk Lognormal GOF Test**					

53	5% Shapiro Wilk Critical Value				0.887	Data appear Lognormal at 5% Significance Level						
54	Lilliefors Test Statistic				0.143	**Lilliefors Lognormal GOF Test**						
55	5% Lilliefors Critical Value				0.222	Data appear Lognormal at 5% Significance Level						
56	**Data appear Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data				0.936	Mean of logged Data					2.83	
60	Maximum of Logged Data				5.252	SD of logged Data					1.108	
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL				71.18	90% Chebyshev (MVUE) UCL					56.93	
64	95% Chebyshev (MVUE) UCL				69.32	97.5% Chebyshev (MVUE) UCL					86.52	
65	99% Chebyshev (MVUE) UCL				120.3							
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL				51.31	95% Jackknife UCL					52.58	
72	95% Standard Bootstrap UCL				50.67	95% Bootstrap-t UCL					89.09	
73	95% Hall's Bootstrap UCL				131.8	95% Percentile Bootstrap UCL					54.33	
74	95% BCA Bootstrap UCL				63.07							
75	90% Chebyshev(Mean, Sd) UCL				67.21	95% Chebyshev(Mean, Sd) UCL					83.16	
76	97.5% Chebyshev(Mean, Sd) UCL				105.3	99% Chebyshev(Mean, Sd) UCL					148.8	
77												
78	**Suggested UCL to Use**											
79	95% Adjusted Gamma UCL				58.22							
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

1				**Background Statistics for Uncensored Full Data Sets**								
2			**User Selected Options**									
3			Date/Time of Computation	3/8/2018 3:02:08 PM								
4			From File	WorkSheet.xls								
5			Full Precision	OFF								
6			Confidence Coefficient	95%								
7			Coverage	95%								
8			New or Future K Observations	1								
9			Number of Bootstrap Operations	2000								
10												
11	**chlorides**											
12												
13	**General Statistics**											
14						Total Number of Observations	16			Number of Distinct Observations	15		
15						Minimum	2.55			First Quartile	7.825	
16						Second Largest	80.8			Median	12.65	
17						Maximum	191			Third Quartile	32.83	
18						Mean	32.01			SD	46.94	
19						Coefficient of Variation	1.466			Skewness	2.956	
20						Mean of logged Data	2.83			SD of logged Data	1.108	
21												
22						**Critical Values for Background Threshold Values (BTVs)**							
23						Tolerance Factor K (For UTL)	2.524			d2max (for USL)	2.443	
24												
25						**Normal GOF Test**						
26						Shapiro Wilk Test Statistic	0.606			**Shapiro Wilk GOF Test**		
27						5% Shapiro Wilk Critical Value	0.887			Data Not Normal at 5% Significance Level		
28						Lilliefors Test Statistic	0.273			**Lilliefors GOF Test**		
29						5% Lilliefors Critical Value	0.222			Data Not Normal at 5% Significance Level		
30						**Data Not Normal at 5% Significance Level**						
31												
32						**Background Statistics Assuming Normal Distribution**						
33						95% UTL with 95% Coverage	150.5			90% Percentile (z)	92.16	
34						95% UPL (t)	116.8			95% Percentile (z)	109.2	
35						95% USL	146.7			99% Percentile (z)	141.2	
36												
37						**Gamma GOF Test**						
38						A-D Test Statistic	0.703			**Anderson-Darling Gamma GOF Test**		
39						5% A-D Critical Value	0.767			Detected data appear Gamma Distributed at 5% Significance Level		
40						K-S Test Statistic	0.191			**Kolmogrov-Smirnoff Gamma GOF Test**		
41						5% K-S Critical Value	0.222			Detected data appear Gamma Distributed at 5% Significance Level		
42						**Detected data appear Gamma Distributed at 5% Significance Level**						
43												
44						**Gamma Statistics**						
45						k hat (MLE)	0.917			k star (bias corrected MLE)	0.787	
46						Theta hat (MLE)	34.91			Theta star (bias corrected MLE)	40.69	
47						nu hat (MLE)	29.34			nu star (bias corrected)	25.17	
48						MLE Mean (bias corrected)	32.01			MLE Sd (bias corrected)	36.09	
49												
50						**Background Statistics Assuming Gamma Distribution**						
51						95% Wilson Hilferty (WH) Approx. Gamma UPL	108.2			90% Percentile	78.15	
52						95% Hawkins Wixley (HW) Approx. Gamma UPL	109.8			95% Percentile	104.5	

53	95% WH Approx. Gamma UTL with 95% Coverage					172.4					99% Percentile	166.7
54	95% HW Approx. Gamma UTL with 95% Coverage					184.5						
55					95% WH USL	164.2					95% HW USL	174.6
56												
57	**Lognormal GOF Test**											
58					Shapiro Wilk Test Statistic	0.97	**Shapiro Wilk Lognormal GOF Test**					
59					5% Shapiro Wilk Critical Value	0.887	Data appear Lognormal at 5% Significance Level					
60					Lilliefors Test Statistic	0.143	**Lilliefors Lognormal GOF Test**					
61					5% Lilliefors Critical Value	0.222	Data appear Lognormal at 5% Significance Level					
62	**Data appear Lognormal at 5% Significance Level**											
63												
64	**Background Statistics assuming Lognormal Distribution**											
65				95% UTL with 95% Coverage		277.5					90% Percentile (z)	70.07
66					95% UPL (t)	125.4					95% Percentile (z)	104.8
67					95% USL	253.7					99% Percentile (z)	222.9
68												
69	**Nonparametric Distribution Free Background Statistics**											
70	**Data appear Gamma Distributed at 5% Significance Level**											
71												
72	**Nonparametric Upper Limits for Background Threshold Values**											
73					Order of Statistic, r	16					95% UTL with 95% Coverage	191
74					Approximate f	0.842					Confidence Coefficient (CC) achieved by UTL	0.56
75	95% Percentile Bootstrap UTL with 95% Coverage					191					95% BCA Bootstrap UTL with 95% Coverage	191
76					95% UPL	191					90% Percentile	62.5
77					90% Chebyshev UPL	177.2					95% Percentile	108.4
78					95% Chebyshev UPL	242.9					99% Percentile	174.5
79					95% USL	191						
80												
81	Note: The use of USL to estimate a BTV is recommended only when the data set represents a background											
82	data set free of outliers and consists of observations collected from clean unimpacted locations.											
83	The use of USL tends to provide a balance between false positives and false negatives provided the data											
84	represents a background data set and when many onsite observations need to be compared with the BTV.											
85												

Appendix G: Documentation of Disposal

TEX MEX SERVICES, LLC
NON-HAZARDOUS OIL FIELD WASTE MANIFEST

PLEASE PRINT NEATLY WHEN FILLING IN INFORMATION BELOW

I. PICK-UP LOCATION:

1. FIELD

2. LEASE/SITE: State AB SWD 1

3. TRANSPORTER NAME: Tex Mex

4. DRIVER NAME: Isela Marquez UNIT NO: 29

II. DESCRIPTION

1. WASTE:

- [ ] TANK BOTTOMS
- [ ] DRILLING FLUIDS
- [ ] PRODUCED WATER
- [ ] PRODUCED WATER CONTAMINATED SOIL
- [x] CRUDE OIL CONTAMINATED SOIL
- [ ] COMPLETION FLUIDS
- [ ] WORKOVER FLUIDS

III. DESTINATION:

1. SITE NAME: Sundance Services

2. SITE ADDRESS: Eunice NM

3. SITE OPERATOR: DATE:

IV. JOB SUPERVISOR

SIGNATURE: DATE: 3-13-18

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 452405

LEASE OPERATOR/SHIPPER/COMPANY: C J Well Service

LEASE NAME: [illegible] 41

TRANSPORTER COMPANY: Tex Mix

TIME 7:43 AM/PM

DATE: 5 1 18

VEHICLE NO: 30

GENERATOR COMPANY MAN'S NAME: [illegible]

CHARGE TO: Tex-Mix

RIG NAME AND NUMBER [illegible]

#216760

TYPE OF MATERIAL

[ ] Production Water   [ ] Drilling Fluids   [ ] Rinsate

[ ] Tank Bottoms   [✓] Contaminated Soil   [ ] Jet Out

[ ] Solids   [ ] BS&W Content: [ ] Call Out

Description: CMD

RRC or API #   C-133#

VOLUME OF MATERIAL   [ ] BBLS. ______ :   [X] YARD 12 ______ :   [ ] ______

@ 25.00

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: [signature] (SIGNATURE)

FACILITY REPRESENTATIVE: [signature] (SIGNATURE)

White - Sundance   Canary - Sundance Acct #1   Pink - Transporter

SUNDANCE SERVICES, Inc.
P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 452469

LEASE OPERATOR/SHIPPER/COMPANY:	C3J Energy
LEASE NAME:	State HB Sim B #1
TRANSPORTER COMPANY:	Tex Mex Serv. — TIME 1:27 AM/PM
DATE: 3/13/15	VEHICLE NO: 29 — GENERATOR COMPANY MAN'S NAME: [illegible]
CHARGE TO: Tex Mex Serv.	RIG NAME AND NUMBER 575-[illegible]

[illegible] TYPE OF MATERIAL #216760

[ ] Production Water [ ] Drilling Fluids [ ] Rinsate

[ ] Tank Bottoms [X] Contaminated Soil [ ] Jet Out

[ ] Solids [ ] BS&W Content: [ ] Call Out

Description: O/D

RRC or API # [illegible] C-133#

VOLUME OF MATERIAL [ ] BBLS. ______ : [X] YARD 12 ______ : [ ] ______
@ 25.00

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [signature]
(SIGNATURE)

FACILITY REPRESENTATIVE: [signature]
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004

TEX MEX SERVICES, LLC
NON-HAZARDOUS OIL FIELD WASTE MANIFEST

PLEASE PRINT NEATLY WHEN FILLING IN INFORMATION BELOW

I. PICK-UP LOCATION:

1. FIELD

2. LEASE/SITE: State AB SWD 1

3. TRANSPORTER NAME: Tex Mex

4. DRIVER NAME: Manuel Lopez UNIT NO: 26

II. DESCRIPTION

1. WASTE:

- ☐ TANK BOTTOMS
- ☐ DRILLING FLUIDS
- ☐ PRODUCED WATER
- ☐ PRODUCED WATER CONTAMINATED SOIL
- ☑ CRUDE OIL CONTAMINATED SOIL
- ☐ COMPLETION FLUIDS
- ☐ WORKOVER FLUIDS

III. DESTINATION:

1. SITE NAME: Sundance Services

2. SITE ADDRESS: Eunice NM

3. SITE OPERATOR: DATE:

IV. JOB SUPERVISOR

SIGNATURE: [signature] DATE: 3-13-18

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 452470

LEASE OPERATOR/SHIPPER/COMPANY: C 3 J Energy

LEASE NAME: St. Tr #13 St. B1

TRANSPORTER COMPANY: Tex Mex | **TIME** 1:31 **AM/PM**

DATE: 3.13.18 **VEHICLE NO:** 210 **GENERATOR COMPANY MAN'S NAME:** Kevin Lujan

CHARGE TO: Tex Mex | **RIG NAME AND NUMBER** 575-441-2106

#216760

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[X] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description: O/D

RRC or API # **C-133#**

VOLUME OF MATERIAL [ ] BBLS.: [X] YARD: 12 @ 25.00 [ ]:

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: _____ *(SIGNATURE)*

FACILITY REPRESENTATIVE: Stephanie Ba _____ *(SIGNATURE)*

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231
(575) 394-2511

TICKET No. 452406

LEASE OPERATOR/SHIPPER/COMPANY: (illegible)

LEASE NAME: (illegible)

TRANSPORTER COMPANY: (illegible) | **TIME:** (illegible) AM/PM

DATE: (illegible) **VEHICLE NO:** (illegible) **GENERATOR COMPANY MAN'S NAME:** (illegible)

CHARGE TO: (illegible) | **RIG NAME AND NUMBER** (illegible)

#216760

TYPE OF MATERIAL

[ ] Production Water	[ ] Drilling Fluids	[ ] Rinsate
[ ] Tank Bottoms	[ ] Contaminated Soil	[ ] Jet Out
[ ] Solids	[ ] BS&W Content:	[ ] Call Out

Description: _____

RRC or API # **C-133#**

VOLUME OF MATERIAL [ ] **BBLS.** _____: [X] **YARD** _____: [ ] _____

@ 25.00

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter