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Alameda County
Environmental Health

Date: 8/30/11

Subject: 1000 N. Vasco Road, Livermore California
Fuel Leak Case No. RO0003073

PERJURY STATEMENT

"I declare that to the best of my knowledge at the present time, the information and/or recommendations contained in the attached report are true and correct."

Submitted by Responsible Party:



Scott Menard
Arbor Development Group
3650 Mt. Diablo Blvd. Suite 200
Lafayette, CA 94549

On behalf of:
Eugene and Shirley Macedo Trust
c/o Matt Macedo
2995 Taylor Way
Byron, CA 94514

Project No.
7380.000.003

August 29, 2011

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6540Subject: 1000 North Vasco Road
Livermore, California
ACEH Case No. RO0003073

INTERIM REMOVAL ACTION REPORT

Dear Mr. Wickham:

We have prepared this Interim Removal Action Report for remediation of soil impacts associated with the former leaking underground storage tank and dispenser systems at 1000 North Vasco Road in Livermore, California (Site). The interim removal action was performed under the direction and comments provided in your directive letter dated August 2, 2011.

Work was performed in general conformance with the Interim Removal Action Plan developed for the Site dated July 12, 2011. Excavation and stockpiling activities, as well as related sampling and analysis of in-situ and excavated soils were performed between July 13, 2011, and August 16, 2011. Excavation backfill operations will be completed in late August 2011.

BACKGROUND

Site Description

The Site is located between North Vasco Road and Central Avenue and south of a flood control channel in Livermore, California (Figure 1). According to a published USGS topographic map, the 5.8-acre Property slopes gently westward at an elevation of approximately 525 feet above mean sea level (msl). The eastern two-thirds of the Property is currently occupied by a former gasoline station and car wash complex, a restaurant, two metal buildings, and a paved parking lot. The western one-third of the Property is undeveloped. The Site is currently an active Leaking Underground Storage Tank case (LUST) under the oversight of Alameda County Environmental Health (ACEH) (Case No. RO0003073).

Geology and Topography

The site is located within the Coast Ranges geomorphic province of California. The Coast Ranges are dominated by a series of northwest-trending mountain ranges that have been folded and faulted in a tectonic regime that involves both translational and compressional deformation.

The site is located in the southwest portion of the Livermore Valley, which is underlain by a thick sequence of alluvial deposits. The soil deposits in this area are mapped as Pleistocene alluvial fan and fluvial deposits (Helley & Graymer, 1997). According to published USGS topographic maps, the Property slopes gently westward at an elevation of approximately 525 to 530 feet above mean sea level. The earthen slope of the flood control channel bordering the site along the eastern portion of the northern property line is approximately 8 feet in height.

Subsurface Stratigraphy

Based on the findings of ENGeo's past field explorations at the Property, the site soils consist of fill over interbedded silty clay, sandy clay, clayey sand and silty sand with various amounts of gravel. Fill found in a boring drilled at the eastern portion of the site is approximately 2 feet thick and consists of silty clay. The sandy deposits were found to be loose to medium dense in consistency. According to previous CPT soundings, the sandy layers range from very thin to up to approximately 10 feet in thickness. The clayey soils were found to be very stiff (ENGeo, 2010). Recent borings completed during site investigations confirmed these findings, as areas of fill and interbedded layers and lenses of clayey, sandy, and gravelly soils were encountered.

Groundwater

Groundwater has been encountered at approximate depths ranging between 8 and 15 feet below the ground surface during past geotechnical explorations, environmental investigations, and monitoring well sampling events. During remediation activities, groundwater was encountered at a depth of approximately 9 feet below the ground surface.

Nature and Source of Contamination

Petroleum hydrocarbons (TPH-d and TPH-g) have been identified as the constituents of concern (COC) in soil and groundwater at the Property. The soil and groundwater impacts are associated with three of the four former UST locations and two of the three former dispenser locations; all located within the northeast portion of the Site.

Contaminant Migration and Extent of Impact

Based on the data collected during the previous and recent field investigations, TPH-d impacts to soil are present in the lower sidewalls and bases of the UST/dispenser basin excavations and within the basin backfill. Impacts necessitating remediation were located within five "areas of concern". The specific locations of soil impacts are summarized as follows:

- Area #1 - Shallow soil impacts are present at a depth of 3 feet below the ground surface beneath the three northern diesel dispensers that were removed in 2011. Beneath the northernmost dispenser, the soil impacts extend to a depth of 10 feet below the ground surface.

- Area #2 - Impacts within backfill were identified at a depth of 4 feet below the ground surface within the eastern portion of the diesel UST basin that was excavated in 2011. Deeper soil boring data from this area and the confirmation samples collected during the UST removal did not identify detectable petroleum hydrocarbon concentrations.
- Area #3 – Soil impacts are present at depths of 9 to 10 feet below the ground surface within the approximate limits of the diesel UST basin that was excavated in 1994.
- Area #4 – A discrete area of impact was encountered in 2006. Elevated concentrations of TPH-g, TPH-d, and TPH-mo were detected at a depth of 7 feet below the ground surface.
- Area #5 – Hydrocarbon impact was also detected within backfill soils within the southeast portion of the gasoline UST basin that was excavated in 2011. Deeper soil boring data from this area and the confirmation samples collected during the UST removal did not exhibit detectable concentrations.

CLEANUP GOALS

The following numeric cleanup goals as established by the San Francisco Bay Regional Water Quality Control Board were proposed and have been generally applied to the remediation activity. Specifically, we used Environmental Screening Levels (ESLs) for soil assuming a residential land use scenario where groundwater is considered a potential drinking water source¹. These proposed cleanup goals are provided in the table below:

TABLE 1
Proposed Cleanup Goals

Analyte	Soil (mg/kg)
TPH-g	83
TPH-d	83
TPH-mo	370
Benzene	0.044
Toluene	2.9
Ethylbenzene	2.3
Xylenes	2.3
MTBE	0.023

However, as explained in the Discussion section of this report, given the use and presence of recycled class II base material in selected areas of the project, alternative cleanup standards have been considered.

¹ SFRWQCB ESLs, 2008: Table A-1 – Shallow Soil Screening Levels for Residential Land Use where Groundwater is a Potential Drinking Water Source.

SOIL EXCAVATION AND CONFIRMATION SAMPLING

Prior to the commencement of remediation activities, ENGEO personnel worked with the abatement contractor to mark the excavation areas by pacing from existing surface features. The five “areas of concern” were selected for soil remediation based on our review of previous data and the results of the subsurface investigation completed by ENGEO in April 2011.

The first phase of soil excavation activities commenced on July 13, 2011, and continued on July 14, 15, and 18, 2011 (Figure 2). The excavation activities began with the removal of overlying pavement to expose the areas designated for remediation. During the initial excavation of the shallow overburden soil, ENGEO staff assessed the quality of the soil by screening the material in the field with a photo ionization detector (PID) and by visually observing for soil staining or discolorations that would be indicative of petroleum hydrocarbon impacts. In general, much of the shallow soil (less than 7 feet below the ground surface) that was removed during the extensive excavation of the historic diesel UST area was not considered to be environmentally impacted and was segregated into a separate non-impacted stockpile designated for potential onsite re-use. Soil exhibiting evidence of impact (e.g., staining, odor, or elevated PID readings) was designated for landfill disposal and placed in a separate stockpile. The stockpile was placed on an asphalt pavement surface and was fenced off from the general public.

Groundwater was generally encountered at approximately 9 feet below the ground surface during excavation operations. The groundwater did not exhibit odor or visual evidence of impact resulting from the UST and/or dispenser releases that have occurred at the Site.

Confirmation samples were collected from a representative bulk sample excavated from the desired base or sidewall location. Stockpile samples were collected from near-surface pile locations. Samples were collected in clean stainless steel sample sleeves. The sample sleeves were sealed using Teflon® sheets secured by tight-fitting plastic end caps. Upon collection of samples, a sample label was placed on the sample and included a unique sample number, sample location, time/date collected, lab analysis, and the sampler’s identification. The soil samples were placed in an ice-cooled chest and submitted under documented chain-of-custody to TestAmerica Laboratories, Inc. in Pleasanton, California. The submitted soil samples were analyzed for the following target analytes:

- Total petroleum hydrocarbons as gasoline (TPH-g) and Volatile Organic Compounds by EPA Method 8260B.
- Total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 8015B with silica gel cleanup.
- LUFT metals by EPA Method 6010B (off-haul stockpile samples only).

The specific soil excavation activities for each “area of concern” are summarized as follows (Figures 3 and 4). A summary of all laboratory analysis is presented in Table A. The complete laboratory reports are presented in Appendix A.

- Area #1 – Diesel fuel dispensers removed in 2011. Based on confirmation soil samples collected during dispenser removal and subsequent soil boring data, elevated concentrations of TPH-d remained in soil at depths ranging from 3 to 10 feet below the ground surface. During the initial stages of excavation, significant shallow soil staining was observed at depths of approximately 3 to 4 feet below the ground surface beneath former dispenser #2, which was located adjacent to the most southern dispenser. PID screening indicated elevated VOC concentrations of approximately 600 parts per million (ppm). Relatively continuous soil discoloration was observed from approximately 3 feet to 10 feet below the ground surface.

In order to remove the vertical and lateral extent of the soil impacts near dispenser #2, the western limit of the excavation was extended, resulting in a localized “notch” excavation extending approximately 8 feet west of the primary excavation. Given the significant shallow impacts identified during field screening, a limited quantity of non-impacted overburden soil removed from dispenser #2 was segregated. As the excavation progressed in depth, impacted soil extended to a depth of approximately 10 feet below the ground surface beneath the three northern dispensers. The most significant soil staining was observed within an impact zone at depths between 7 and 10 feet below the ground surface. In the area near the northernmost dispenser (#4), we observed that the impact zone staining extended toward the west. The excavation was extended in this location to remove impacted soil. A section of the west sidewall, measuring approximately 20 feet in length by 10 feet in depth, was extended westward approximately 6 feet beyond the limits of the primary excavation. After extending the excavation in this area, residual impact zone staining was noticeably limited and discontinuous. A confirmation sample (3WSW-A) was collected from the impact zone in this area to document the extent of the remaining impacts, if any.

Upon completion of the dispenser area excavation, the base of the primary excavation extended to a depth of approximately 10 feet below the ground surface in the northern portion, while the base of the excavation in the southern portion extended to a depth of approximately 6 feet below the ground surface. This first phase of the dispenser area excavation resulted in the removal of approximately 300 cubic yards of impacted soil. The dispenser area excavation became contiguous with the diesel UST excavation (Area #3) to the east, which resulted in a single large excavation measuring approximately 80 feet across at its widest point.

We collected confirmation soil samples from the base and sidewalls of the excavation at the following locations: 3BASE-A, 1BASE-C, 1BASE-B, 1BASE-A, #1BASE-1 3WSW-A, 3WSW-B, 1WSW-B, 1WSW-A, 1SSW, 1ESW-A, and 1ESW-B. Confirmation samples were collected from a representative bulk sample excavated from the desired base or sidewall location. Sidewall samples were generally collected at the top of the impact zone at a depth of 7 feet below the ground surface.

With the exception of 3WSW-A, the confirmation samples collected from the base and sidewalls of the excavation exhibited non-detectable concentrations of TPH-g, TPH-d, and VOCs or concentrations less than the approved cleanup goals. Sidewall confirmation sample 3WSW-A exhibited TPH-d at a concentration of 1,100 mg/kg, indicating that significant soil impacts remained in the impact zone at the northwest corner of the excavation. On August 12, 2011, we returned to the site to observe the additional excavation of soil impacts at location 3WSW-A. This second phase of excavation work advanced a section of the northwest sidewall measuring approximately 20 feet long by 10 feet deep. After advancing the sidewall westward approximately 5 feet, we did not observe visual staining, the impact zone was no longer visible, and PID readings were less than 5 ppm. We collected confirmation samples 3WSW-A-R within the new extent of the west sidewall to confirm removal of the impact zone, as well as 3NW-A, and 3NW-B following minor additional excavation in these locations. The COC analytical results for confirmation samples 3WSW-A-R, 3NW-A, and 3NW-B were not detected or were less than the cleanup goals, confirming that the dispenser area excavation was complete. This second phase of the dispenser area excavation resulted in the removal of approximately 20 cubic yards of impacted soil.

- Area #2 – Diesel UST removed in 2011. Following tank removal and backfill operations in 2011, soil borings were advanced within the former UST basin. Elevated concentrations of TPH-d and TPH-mo were detected in backfill material in the east portion of the basin. Confirmation samples collected at the time of the UST removal and subsequent deeper soil borings did not identify impacts within native soil in this area. The impacted backfill was believed to consist of soil excavated during the UST removal in 2011 and placed back into the basin as backfill. Upon advancing the excavation in this area, we noted that the backfill appeared to mostly consist of aggregate base material, which was confirmed to be recycled Class II aggregate base material. When screened with the PID, the backfill material exhibited relatively low concentrations of VOCs; approximately 5 ppm or less. The backfill material appeared homogenous and we observed no visual signs of staining. Following the initial excavation activity in this area, the four sidewalls and the base of the completed excavation were observed to consist of aggregate base material. This first phase of the excavation resulted in the removal of approximately 15 cubic yards of backfill material from this location.

We collected confirmation samples from the base of the excavation at a depth of 6 feet below the ground surface and from the sidewalls of the excavation at a depth of 4 feet below the ground surface at the following locations: #2 NORTH, #2 SOUTH, #2 EAST, #2 WEST, and #2 BASE. All of the samples consisted of import backfill material.

The confirmation samples collected from the south and west sidewalls exhibited concentrations of TPH-d exceeding the approved cleanup goal. On August 12, 2011, we returned to the site to observe the additional excavation of impacted backfill. This second phase of excavation work focused on extending the west and south sidewalls of the excavation. After advancing the west and south sidewalls an additional 3 feet, we noted that sidewalls still consisted of the aggregate base material. When screened with the PID, the sidewalls again exhibited relatively low concentrations of VOCs; approximately 5 ppm or less. The backfill material in the sidewalls appeared homogenous, and we observed no visual signs of staining.

We collected confirmation samples 2W-R and 2S-R from the west and south sidewalls. This second stage of the excavation resulted in the removal of an approximately 20 cubic yards of backfill material from this location. The analytical results for confirmation samples 2W-R and 2S-R exhibited concentrations of TPH-d exceeding the approved cleanup goal. The analysis also included testing for the presence of TPH-mo; elevated concentrations of TPH-mo were also detected. The samples were inadvertently analyzed without silica gel cleanup; another analysis was performed with silica gel cleanup, resulting in lower detected TPH concentrations.

We confirmed that the backfill consisted of recycled aggregate base material. This material contains some asphalt material, which very likely resulted in elevated concentrations of TPH-d and TPH-mo. Subsequent testing was performed to determine the soluble fraction of the detected TPH constituents. Waste Extraction Testing was performed on one sample (2S-R) using de-ionized water as an extractant. The non-detectable result of the analysis indicates that this material is not soluble and is not expected to pose a threat to groundwater at the Site.

Additional laboratory testing performed to determine the presence of polycyclic aromatic hydrocarbons (PAHs) on sample 2W-R indicated the presence of some PAH analytes below appropriate screening levels. The presence of PAHs provides strong evidence of the presence of asphalt material, supporting our opinion that these materials are resulting in the elevated detected TPH concentrations.

- Area #3 – Diesel USTs removed in 1994. Previous sampling data collected during the 1994 excavation and in subsequent investigations identified TPH-g and TPH-d impacts remaining in soil at concentrations exceeding the current cleanup goals. The first phase of excavation work began in the central portion of the historic UST basin and involved the removal of non-impacted overburden soil in order to access the impact zone impacts. Upon exposing the shallow vadose zone soil to a depth of 7 feet below the ground surface, we did not observe evidence of impact within shallow overburden soil. Additional screening of the shallow soil with the PID revealed relatively low VOC concentrations (10 ppm or less). These findings were generally consistent throughout the shallow vadose zone across the footprint of the excavation. Excavated soils without evidence of soil impact were placed into the non-impacted soil stockpile. As the excavation advanced to greater depths (more than 7 feet below the ground surface), we observed significant staining within an impact zone from approximately 7 to 10 feet below the ground surface. The impact zone staining appeared to extend laterally in all directions from the initial excavation limits. Much of the stained soil exhibited PID readings of approximately 100 ppm. Based on the results of our field screening, the impact zone soil was placed into the impacted stockpile for eventual off-site disposal. As the overburden removal and subsequent impact zone soil was removed, impacted soil was segregated from clean overburden soil and placed into the respective stockpiles. This excavation covered a much larger footprint than originally anticipated and eventually was merged with Area #1, as shown in Figures 3 and 4. With the exception of the northeast sidewall, no impacted soils remained within base or sidewall soils upon completion of the excavation. Because the northeast sidewall was positioned within three feet of the Property line, the wall could not be extended without encroaching into off-site properties. A small area of residual impact remained within this location.

We collected confirmation samples from the base of the excavation at a depth of 11 feet below the ground surface and from the sidewalls of the excavation at a depth of 7 feet below the ground surface at the following locations: #3 BASE (N), #3 BASE (S), #3 EAST (S), #3 EAST (N), #3 NORTH, #3 NORTH (SAMPLE), and 3 SSW. These samples exhibited non-detectable COC concentrations or concentrations below cleanup goals. The analytical results for #3 NORTH (SAMPLE), collected from the limited area of soil impact at the northeast excavation wall, exhibited TPH-d concentrations exceeding the approved cleanup goals. However, it is not feasible to implement additional soil removal activities at these adjacent confirmation sample locations, given the close proximity of the Property line and the flood control channel. Further, sample #3 NORTH taken from an adjacent area without visible impact, did not yield detectable COC concentrations. This sample is considered representative of conditions within the northeast sidewall. Given the proximity to the Property line, no future excavations would likely occur in this area. The excavation of the historic diesel UST area resulted in the removal of approximately 400 cubic yards of impacted soil.

- Area #4 – 4-P1 impact area. Previous soil boring data collected in 2006 identified impacted soil at a location centrally located between the former USTs and dispensers. Based on the elevated TPH-d concentrations, the impacts were likely associated with the former diesel USTs or dispensers that were located to the south, west, and north. As excavation work progressed, no staining or odors were observed, and the PID screening did not measure detectable VOC concentrations. A significant portion of the overburden soil was free of evidence of impact and was placed into the non-impacted stockpile.

We collected confirmation samples from the base of the excavation at a depth of 7 feet below the ground surface and from the sidewalls of the excavation at a depth of 5 feet below the ground surface at the following locations: #4 BASE, #4 WEST, #4 EAST, #4 SOUTH, and #4 NORTH. The analytical results for the five confirmation samples exhibited no detections above laboratory reporting limits. The excavation resulted in the removal of approximately 10 cubic yards of impacted soil from this location.

- Area #5 – Gasoline USTs removed in 2011. Similar to Area #2, a soil boring was advanced within the UST basin subsequent to the basin being backfilled in 2011. The soil boring data exhibited an elevated concentration of TPH-mo in the backfill material that was placed in the southeast portion of the basin. As with Area #2, the impacted backfill was believed to consist of soil excavated during the UST removal in 2011 and placed back into the basin as backfill. Upon advancing the excavation in this area, we noted that the backfill appeared to mostly consist of aggregate base material, which was confirmed to be recycled Class II aggregate base material. When screened with the PID, the backfill material exhibited relatively low concentrations of VOCs; approximately 5 ppm or less. The backfill material appeared homogenous and we observed no visual signs of staining. Following the initial excavation activity in this area, the four sidewalls and the base of the completed excavation were observed to consist of aggregate base material. This first phase of the excavation resulted in the removal of approximately 15 cubic yards of backfill material from this location.

We collected confirmation samples from the base of the excavation at a depth of 7 feet below the ground surface and from the sidewalls of the excavation at a depth of 4 feet below the ground surface at the following locations: #5 NORTH, #5 SOUTH, #5 EAST, #5 WEST, and #5 BASE. All of the samples consisted of import backfill material.

The confirmation samples collected from the base of the excavation and all four sidewalls exhibited concentrations of TPH-d exceeding the approved cleanup goal. On August 12, 2011, we returned to the site to observe the additional excavation of impacted backfill. This second phase of excavation work focused on extending the base and all four sidewalls of the excavation. The excavation base was deepened by approximately 1 foot and the sidewalls were extended by an additional 3 feet. Following the additional excavation, the sidewalls were observed to consist of aggregate base material. Additionally, a portion of the south sidewall and the base consisted of pea gravel. When screened with the PID, the sidewalls and base exhibited relatively low concentrations of VOCs (5 ppm or less). The backfill material in the sidewalls appeared homogenous and we observed no visual signs of staining. We collected confirmation samples 5N-R (mis-labeled as 5R-R), 5W-R, 5S-R, 5E-R, and 5BASE-R from the sidewalls and base following completion of the second phase of excavation. This second phase of excavation resulted in the removal of approximately 30 cubic yards of backfill material from this location.

The analytical results for confirmation samples 5N-R, 5W-R, 5S-R, and 5E-R exhibited concentrations of TPH-d exceeding the approved cleanup goal. The analysis also included testing for the presence of TPH-mo; elevated concentrations of TPH-mo were also detected. The samples were inadvertently analyzed without silica gel cleanup; another analysis was performed with silica gel cleanup, resulting in lower detected TPH concentrations.

As with Area #2, we confirmed that the backfill consisted of recycled aggregate base material. This material contains some asphalt material, which very likely resulted in elevated concentrations of TPH-d and TPH-mo. Subsequent testing was performed to determine the soluble fraction of the detected TPH constituents. Waste Extraction Testing was performed on one sample (5S-R) using de-ionized water as an extractant. The non-detectable result of the analysis indicates that this material is not soluble and is not expected to pose a threat to groundwater at the Site.

Additional laboratory testing performed to determine the presence of PAHs on select samples (5N-R, 5E-R, and 5W-R) indicated the presence of some PAH analytes below appropriate screening levels. The presence of PAHs provides strong evidence of the presence of asphalt material, supporting our opinion that these materials are resulting in the elevated detected TPH concentrations.

STOCKPILE SOILS

Both the clean overburden soil stockpile and the impacted soil stockpile were sampled for characterization purposes. The clean overburden stockpile, measuring approximately 200 cubic yards in volume, was sampled using a density of approximately one sample per 25 cubic yards.

A total of 2 four-point composite samples were collected and analyzed for the presence of TPH-g, TPH-d, and VOCs. One composite sample, SP-A,B,C,D, was collected from the southern portion of the stockpile. None of the detected COCs exceeded the respective cleanup goals, allowing it to be re-used as backfill material. The other clean overburden stockpile composite sample, SP-E,F,G,H, exhibited elevated TPH-d concentrations. The samples constituting this composite sample were re-analyzed as discrete samples; all four discrete samples exhibited elevated TPH-d concentrations. The northern half of the stockpile (characterized by these samples) was removed from the clean stockpile and placed in the impacted stockpile. Additionally, intermittent sampling of excavated soils from Areas #2 and #5 (samples SP2-A, B, C, D and SP5-A, B, C, D) exhibited elevated COC concentrations and were placed into the impacted stockpile.

Following characterization testing of the impacted soil stockpile (which confirmed the presence of several elevated COC concentrations, the excavated impacted soil materials were transported on August 13, 2011 to the Republic Services Vasco Road Landfill in Livermore, California. The recent excavation activities resulted in the removal of 1257.58 tons of Class II soil (non-hazardous waste) from the five areas within the Site. A summary activity report prepared by Vasco Landfill as well as a sample manifest ticket are presented in Appendix B.

DISCUSSION

Suspected and/or confirmed soil impacts within Areas #1, #3, and #4 have been remediated through the described excavation activities. With the exception of the a limited portion of the northeast sidewall within Area #3, none of the soils within these locations exhibit evidence of impact. Confirmation sampling has confirmed that remaining soils exhibit non-detectable COC concentrations or concentrations below the cleanup goals. A limited area of impact remains within the northeast sidewall of Area #3. However, the extent of the impact is minor. It is not considered feasible to continue the excavation due to its proximity to the Property line. Regardless, the limited impacted soil is not expected to pose a risk of impact to future land users or groundwater at the Site.

As discussed, recycled class II aggregate base is present within Areas #2 and #5. This imported material was used as “make-up fill” with on-site excavated soils during backfill operations following UST and dispenser removal at the Site in January 2011. While initial and subsequent excavation operations have removed some of this material, it remains present in Areas #2 and #5. Confirmation sampling indicated the presence of elevated TPH-d concentrations in excess of the cleanup goals in Areas #2 (south and west sidewall) and #5 (sidewalls).

Recycled class II base material, a common construction material derived from roadway rehabilitations, is commonly used as a backfill material. Because of its constituent materials, it commonly includes a minor fraction of asphalt material. Although visual inspection of the fill material indicates that the fill material is free of staining, and PID screening indicates very low to non-existent VOC fractions, it is our opinion that the elevated TPH concentrations are the result of the presence of this asphalt material.

Following testing for the aforementioned COCs, additional testing was performed on the samples collected from Area #5. As mentioned, Waste Extraction Tests using de-ionized water were performed on selected samples (those with the highest TPH-d concentrations from Area #2 and #5). Neither sample exhibited detectable soluble TPH-d concentrations. Therefore, considering possible conditions that could result in leaching (infiltration of groundwater), these soils and the presence of elevated TPH concentrations do not exhibit the potential for leaching and subsequent groundwater impact. Therefore, the current backfill material is not expected to pose a threat to groundwater quality at the Site.

In addition, as mentioned, additional testing was performed to determine the presence (if any) of PAHs within select samples. Several PAH analytes were detected at relatively low concentrations, below applicable screening levels. PAHs are common constituents of asphalt materials. The detected presence further supports our opinion of the presence of a minor fraction of asphalt materials within the backfill in Areas #2 and #5 that are likely responsible for the elevated TPH-d concentrations.

Although elevated TPH concentrations are present within the backfill materials in Areas #2 and #5, we do not believe these pose a threat to future land users at the Property. As discussed, Waste Extraction Tests indicated the detected TPH-d concentrations are not soluble, and therefore, their presence in the backfill material would not be expected to pose a threat to groundwater at the Site. Further, although the TPH-d concentrations within sidewall samples of Areas #2 and #5 exceed the respective cleanup goal, the cleanup goal is based on a conservative value in a residential use scenario with values to protect against groundwater leaching and to be protective of residential land user considering a direct exposure scenario. The demonstration that the elevated TPH-d total concentrations not yielding a soluble fraction supersedes the groundwater protection ESL scenario. Further, even though the TPH-d concentrations (as well as select PAH analytes in sample 5E-R), exceed a residential direct exposure scenario, this is not considered a reasonable exposure pathway, as the entire remediation area will be within a future park. This park will not be converted to a residential land use. Therefore, a more realistic exposure scenario² consists of future construction/trench workers at the Site during initial and subsequent construction activities. Considering this exposure threshold concentration, the concentrations present within the backfill in Areas #2 and #5 are well below the threshold concentration of 4,200 mg/kg as well as concentrations for the detected PAHs.

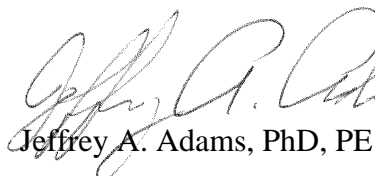
Following the removal of impacted soils from the excavation areas resulting from historic releases at the Site, the results of confirmation sampling indicate that native soils do not contain impacted soils that would pose a threat to the environment or future land users. Further, the presence of backfill material is not considered to pose a threat to the environment or future land users considering likely future exposure scenarios. Therefore, we request that case closure and a No Further Action (NFA) determination for unrestricted land use be issued for the Site.

² SFRWQCB ESLs, 2008: Table K-3 – Direct Exposure Soil Screening Levels, Construction/Trench Worker Exposure Scenario.

If you have any questions regarding this report, please do not hesitate to contact us.

Sincerely,

ENGEO Incorporated


Jeffrey A. Adams, PhD, PE




Shawn Munger, CHG, REAII

Attachments: List of Selected References
Figures
Table A – Soil Sample Analysis Summary
Appendix A – Laboratory Analysis Reports
Appendix B – Soil Off-haul Summary Report and Sample Manifest Ticket

cc: 1 - Mr. Scott Menard, Arbor Development Group (e-mail only)

SELECTED REFERENCES

Alameda County Environmental Health Services; Conditional Work Plan Approval for Fuel Leak Case No. RO0003073 and GeoTracker Global ID T10000002919, Geno Country Store, 1000 North Vasco Road, Livermore, CA 94551, April 4, 2011.

Alameda County Environmental Health Services; Review of Site Characterization Report for Fuel Leak Case No. RO0003073 and GeoTracker Global ID T10000002919, Geno Country Store, 1000 North Vasco Road, Livermore, CA 94551, July 7, 2011.

Alameda County Environmental Health Services; Conditional Approval of Interim Removal Action Work Plan for Fuel Leak Case No. RO0003073 and GeoTracker Global ID T10000002919, Geno Country Store, 1000 North Vasco Road, Livermore, CA 94551, August 2, 2011.

ENGEO; Modified Phase One Environmental Site Assessment, 1000 North Vasco Road, Livermore, California; October 27, 2006, Project No. 7380.1.001.02.

ENGEO; Supplemental Environmental Services, Shell Gas Station, 1000 North Vasco Road, Livermore, California; June 20, 2007, Project No. 7380.1.002.04.

ENGEO; Geotechnical Exploration, Macedo Property, 1000 North Vasco Road, Livermore, California; October 21, 2011, Project No. 7380.000.000.

ENGEO; Phase I Environmental Site Assessment Update, Macedo Property, 1000 North Vasco Road, Livermore, California; March 18, 2011, Project No. 7380.000.002.

ENGEO; Workplan for Site Characterization, 1000 North Vasco Road, Livermore, California; April 1, 2011, Project No. 7380.000.003.

ENGEO; Site Characterization Report, 1000 North Vasco Road, Livermore, California; June 17, 2011, Project No. 7380.000.003.

ENGEO; Interim Removal Action Workplan, 1000 North Vasco Road, Livermore, California; July 12, 2011, Project No. 7380.000.003.

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Helley, E. J and Graymer, R.W., 1997, Quaternary Geology of Alameda County and Parts of Contra Costa, Santa Clara, San Mateo, San Francisco, Stanislaus, and San Joaquin Counties, California; USGS, Open File Report OF-97-97.

7380.000.003
August 29, 2011

Krazan and Associates, Phase I Environmental Site Assessment, BOTW No. 09-510-02, Geno's Country Store, 1000 North Vasco Road, Livermore, California; April 3, 2009; Project No. 013-09074.

Krazan and Associates, Phase II Environmental Site Assessment, BOTW No. 09-510-02, Geno's Country Store, 1000 North Vasco Road, Livermore, California; September 28, 2009; Project No. 013-09074.

FIGURES

Figure 1 – Vicinity Map

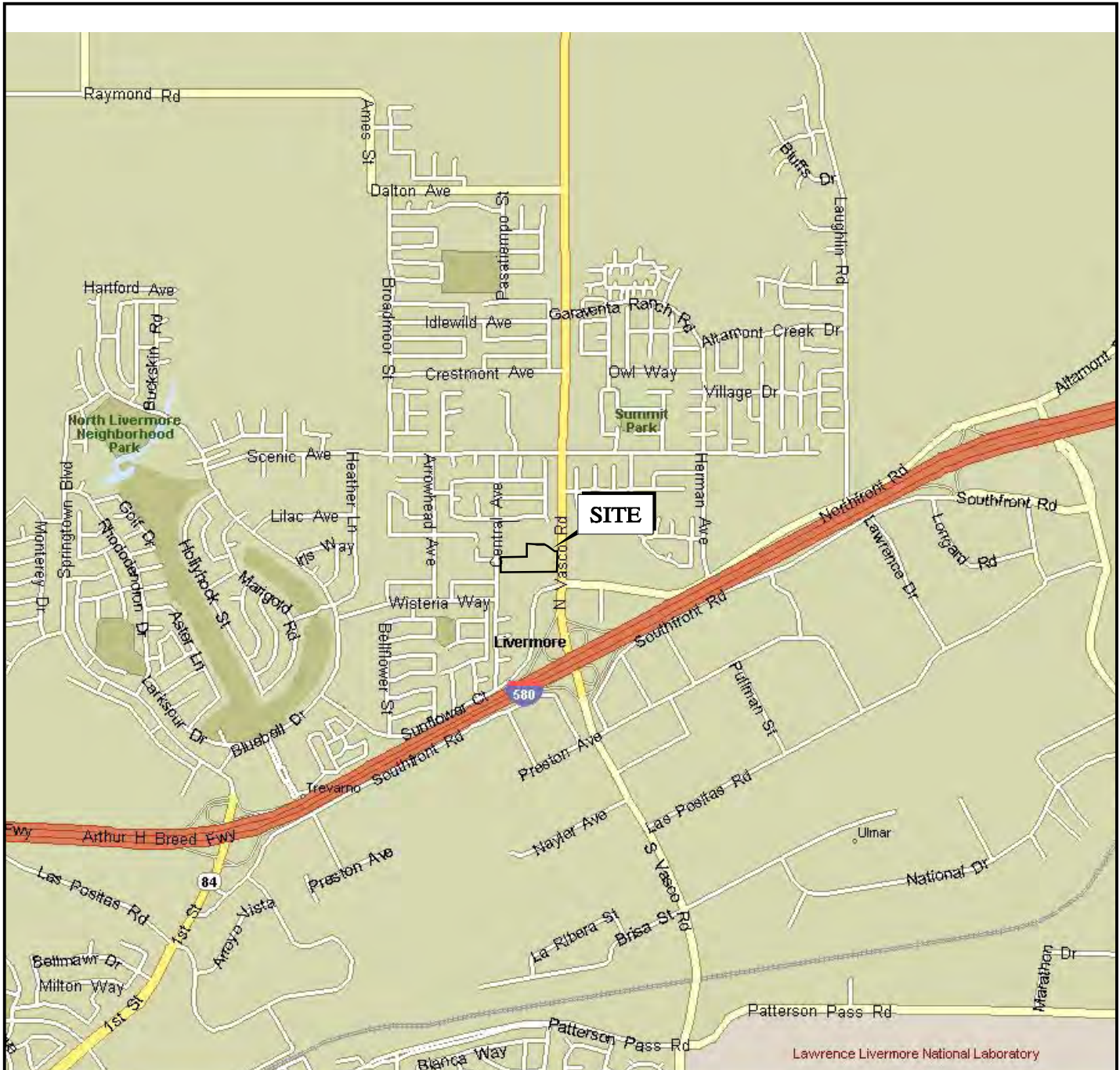
Figure 2 – Site Photographs

Figure 3 – Site Plan

Figure 4A – Excavation Areas 1 and 3

Figure 4B – Excavation Areas 2, 4, and 5

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BASE MAP SOURCE: MS STREETS AND TRIPS



VICINITY MAP
 1000 NORTH VASCO ROAD
 LIVERMORE, CALIFORNIA

PROJECT NO.: 7380.000.003	
SCALE: AS SHOWN	
DRAWN BY: DLB	CHECKED BY: SPM

FIGURE NO.
1

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VIEW OF EXCAVATION #3 LOOKING NORTHEAST



VIEW OF EXCAVATIONS #1 AND #3 LOOKING EAST



VIEW OF EXCAVATIONS #1 AND #3 LOOKING NORTH



VIEW OF EXCAVATIONS #1 AND #3 LOOKING NORTH



VIEW OF EXCAVATIONS #1 AND #4 LOOKING SOUTHEAST



SITE PHOTOGRAPHS
1000 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

PROJECT NO.: 7380.000.003

SCALE: NO SCALE

DRAWN BY: SRP

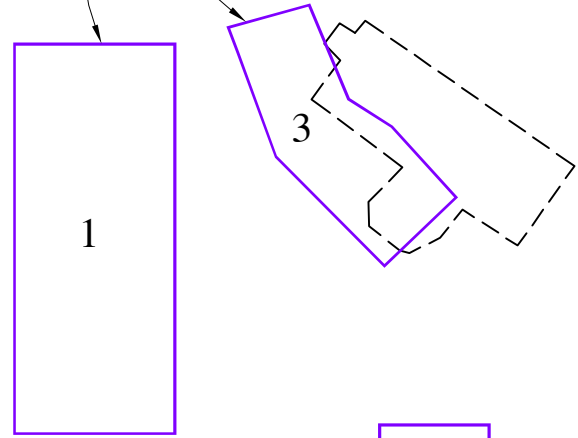
CHECKED BY:

FIGURE NO.

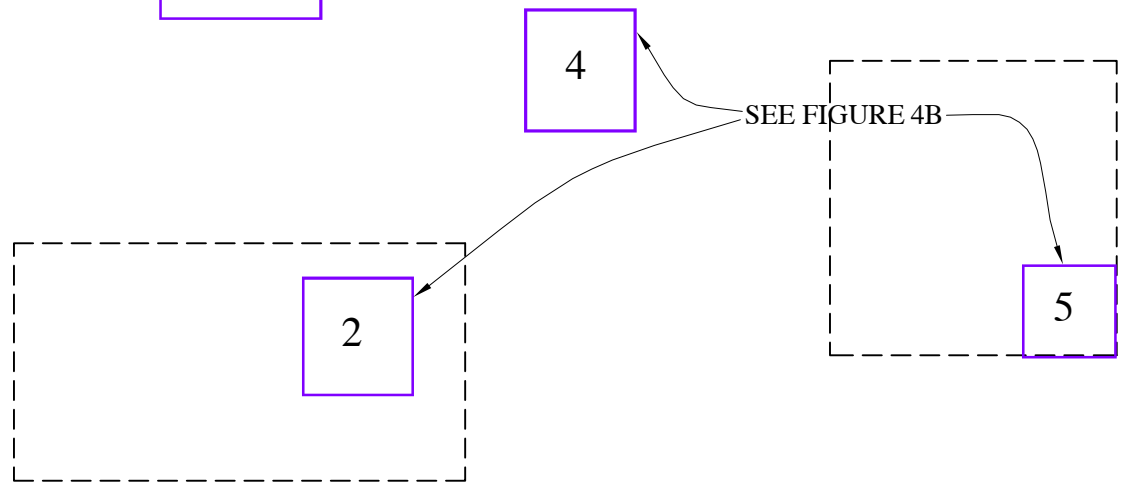
2

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SEE FIGURE 4A

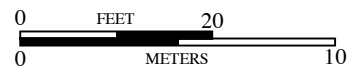


SEE FIGURE 4B



EXPLANATION

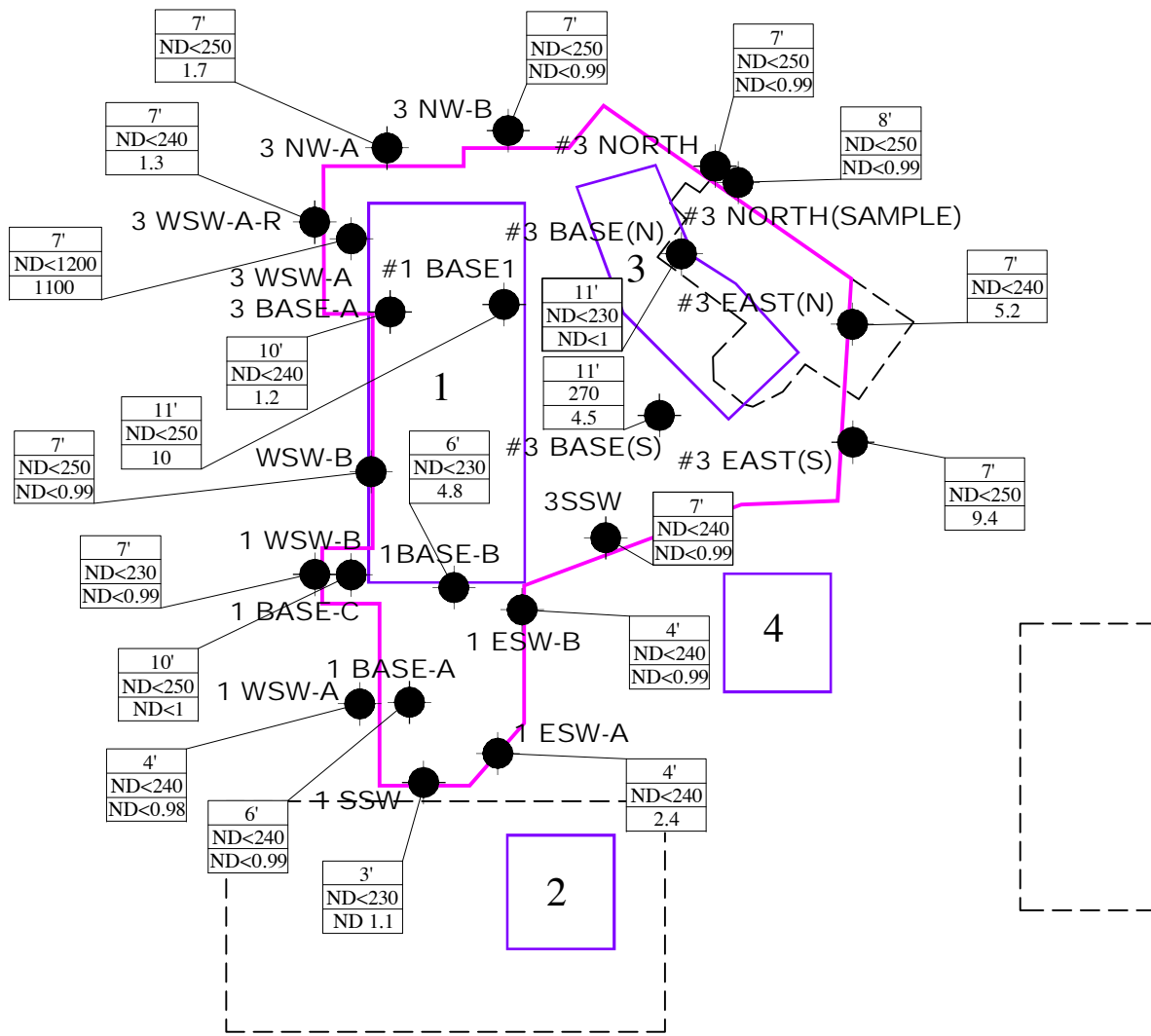
- 5 APPROXIMATE LOCATION OF EXCAVATION AREA



SITE PLAN
 1000 NORTH VASCO ROAD
 LIVERMORE, CALIFORNIA

PROJECT NO.: 7380.000.003	
SCALE: AS SHOWN	
DRAWN BY: SRP	CHECKED BY:

FIGURE NO.
3



EXPLANATION

3 NW-A ● APPROXIMATE LOCATION OF SAMPLE

6'	SAMPLE DEPTH
ND<240	TPHg - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
ND<0.98	TPHd - TOTAL PETROLEUM HYDROCARBONS AS DIESEL



BASE MAP SOURCE: UNKNOWN



EXCAVATION AREAS 1 AND 3
 1000 NORTH VASCO ROAD
 LIVERMORE, CALIFORNIA

PROJECT NO.: 7380.000.003

SCALE: AS SHOWN

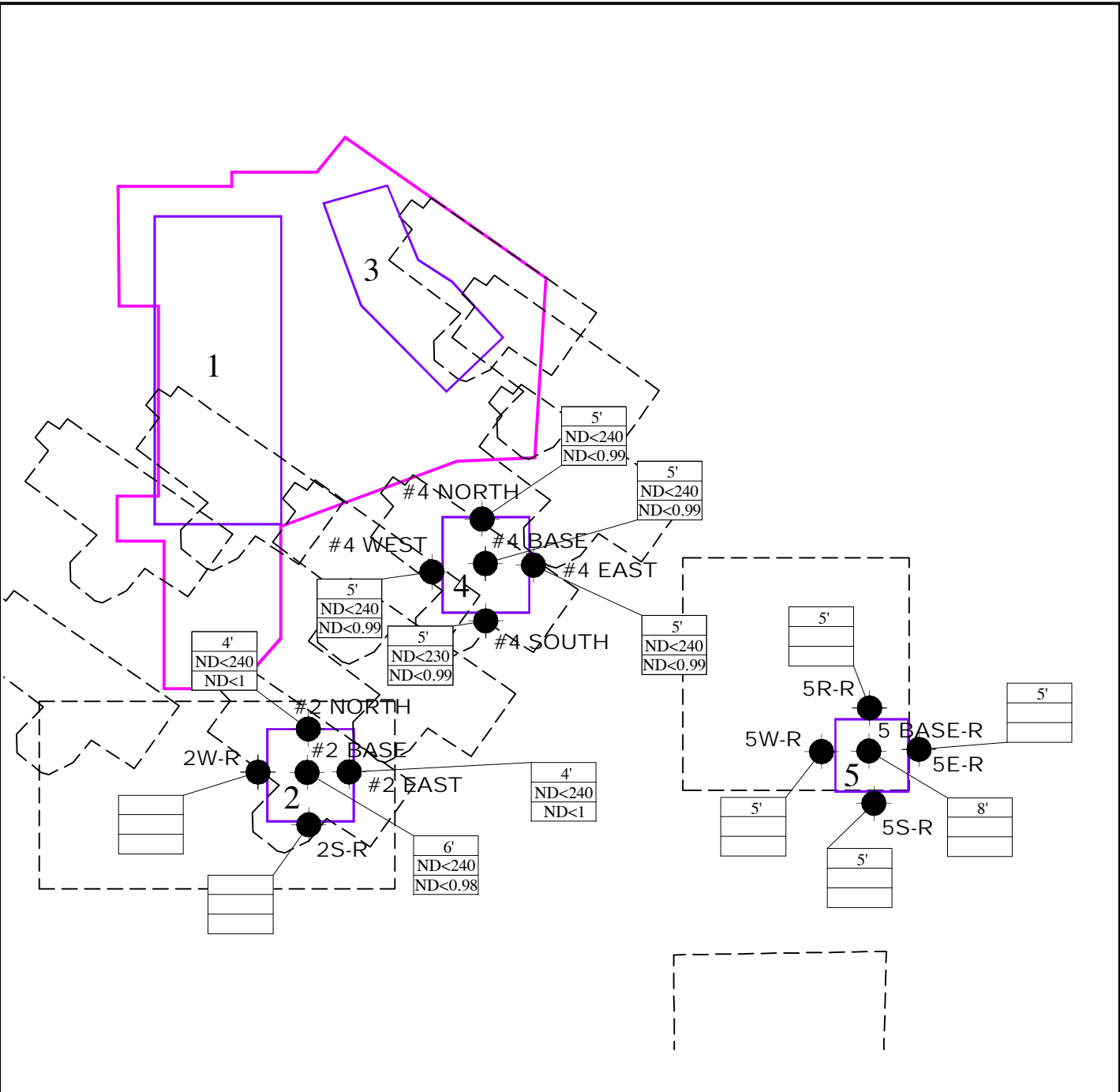
DRAWN BY: SRP

CHECKED BY: SPM

FIGURE NO.

4A

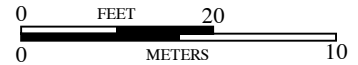
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EXPLANATION

#4 SOUTH ● APPROXIMATE LOCATION OF SAMPLE

6'	SAMPLE DEPTH
ND<240	TPHg - TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
ND<0.98	TPHd - TOTAL PETROLEUM HYDROCARBONS AS DIESEL



EXCAVATION AREAS 2, 4, AND 5
1000 NORTH VASCO ROAD
LIVERMORE, CALIFORNIA

PROJECT NO.: 7380.000.003

SCALE: AS SHOWN

DRAWN BY: SRP

CHECKED BY:

FIGURE NO.
4B

TABLE A

Soil Sample Analysis Summary

APPENDIX A

Laboratory Analysis Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36352-2
Client Project/Site: 1000 N vasco RD

For:
Engeo, Inc.
2010 Crow Canyon Place
Suite 250
San Ramon, California 94583

Attn: Mr. Jeff Adams



Authorized for release by:
08/03/2011 04:05:55 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Table of Contents

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Sample Summary	12
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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Case Narrative

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Job ID: 720-36352-2

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36352-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA

Method(s) 8015B: Capric acid surrogate recovery for the following sample(s) was outside control limits: SP-F (720-36352-19), SP-H (720-36352-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-36352-18 MS), (720-36352-18 MSD), SP-E (720-36352-18), SP-G (720-36352-20).

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 96379 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Client Sample ID: SP-E

Lab Sample ID: 720-36352-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	520		9.9		mg/Kg	10		8015B	Silica Gel Clear

Client Sample ID: SP-F

Lab Sample ID: 720-36352-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	120		2.0		mg/Kg	2		8015B	Silica Gel Clear

Client Sample ID: SP-G

Lab Sample ID: 720-36352-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	380		9.9		mg/Kg	10		8015B	Silica Gel Clear

Client Sample ID: SP-H

Lab Sample ID: 720-36352-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	190		3.0		mg/Kg	3		8015B	Silica Gel Clear

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: SP-E
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-18
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	520		9.9		mg/Kg		08/01/11 10:55	08/03/11 11:33	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/01/11 10:55	08/03/11 11:33	10
p-Terphenyl	0	D	38 - 148				08/01/11 10:55	08/03/11 11:33	10

Client Sample ID: SP-F
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-19
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	120		2.0		mg/Kg		08/01/11 10:55	08/03/11 10:22	2
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	18	X	0 - 5				08/01/11 10:55	08/03/11 10:22	2
p-Terphenyl	68		38 - 148				08/01/11 10:55	08/03/11 10:22	2

Client Sample ID: SP-G
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-20
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	380		9.9		mg/Kg		08/01/11 10:55	08/03/11 11:09	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/01/11 10:55	08/03/11 11:09	10
p-Terphenyl	0	D	38 - 148				08/01/11 10:55	08/03/11 11:09	10

Client Sample ID: SP-H
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-21
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	190		3.0		mg/Kg		08/01/11 10:55	08/03/11 10:45	3
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	54	X	0 - 5				08/01/11 10:55	08/03/11 10:45	3
p-Terphenyl	94		38 - 148				08/01/11 10:55	08/03/11 10:45	3

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-96379/1-A
Matrix: Solid
Analysis Batch: 96431

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 96379

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/01/11 10:55	08/02/11 22:14	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
	% Recovery	Qualifier							
Capric Acid (Surr)	0.2		0 - 5			08/01/11 10:55	08/02/11 22:14	1	
p-Terphenyl	105		38 - 148			08/01/11 10:55	08/02/11 22:14	1	

Lab Sample ID: LCS 720-96379/2-A
Matrix: Solid
Analysis Batch: 96431

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 96379

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	
Diesel Range Organics [C10-C28]	83.3	59.6		mg/Kg		72	50 - 150	
Surrogate	LCS LCS		Limits			Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier						
p-Terphenyl	102		38 - 148					

Lab Sample ID: LCSD 720-96379/3-A
Matrix: Solid
Analysis Batch: 96431

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 96379

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec.		RPD
		Result	Qualifier				Limits	RPD	Limit
Diesel Range Organics [C10-C28]	82.8	62.3		mg/Kg		75	50 - 150	4	35
Surrogate	LCSD LCSD		Limits			Prepared	Analyzed	Dil Fac	
	% Recovery	Qualifier							
p-Terphenyl	109		38 - 148						

Lab Sample ID: 720-36352-18 MS
Matrix: Solid
Analysis Batch: 96531

Client Sample ID: SP-E
Prep Type: Silica Gel Cleanup
Prep Batch: 96379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec.	
									Limits	
Diesel Range Organics [C10-C28]	520		82.2	767	4	mg/Kg		305	50 - 150	
Surrogate	MS MS		Limits			Prepared	Analyzed	Dil Fac		
	% Recovery	Qualifier								
p-Terphenyl	0	D	38 - 148							

Lab Sample ID: 720-36352-18 MSD
Matrix: Solid
Analysis Batch: 96531

Client Sample ID: SP-E
Prep Type: Silica Gel Cleanup
Prep Batch: 96379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec.		RPD
									Limits	RPD	Limit
Diesel Range Organics [C10-C28]	520		82.6	562	4 F	mg/Kg		55	50 - 150	31	20
Surrogate	MSD MSD		Limits			Prepared	Analyzed	Dil Fac			
	% Recovery	Qualifier									
p-Terphenyl	0	D	38 - 148								

QC Association Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

GC Semi VOA

Prep Batch: 96379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-96379/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-96379/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCS 720-96379/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36352-18	SP-E	Silica Gel Cleanup	Solid	3546	
720-36352-18 MS	SP-E	Silica Gel Cleanup	Solid	3546	
720-36352-18 MSD	SP-E	Silica Gel Cleanup	Solid	3546	
720-36352-19	SP-F	Silica Gel Cleanup	Solid	3546	
720-36352-20	SP-G	Silica Gel Cleanup	Solid	3546	
720-36352-21	SP-H	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 96431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-96379/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	96379
LCS 720-96379/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	96379
MB 720-96379/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	96379

Analysis Batch: 96531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36352-19	SP-F	Silica Gel Cleanup	Solid	8015B	96379
720-36352-21	SP-H	Silica Gel Cleanup	Solid	8015B	96379
720-36352-20	SP-G	Silica Gel Cleanup	Solid	8015B	96379
720-36352-18	SP-E	Silica Gel Cleanup	Solid	8015B	96379
720-36352-18 MS	SP-E	Silica Gel Cleanup	Solid	8015B	96379
720-36352-18 MSD	SP-E	Silica Gel Cleanup	Solid	8015B	96379



Lab Chronicle

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Client Sample ID: SP-E

Lab Sample ID: 720-36352-18

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			96379	08/01/11 10:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		10	96531	08/03/11 11:33	DH	TAL SF

Client Sample ID: SP-F

Lab Sample ID: 720-36352-19

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			96379	08/01/11 10:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		2	96531	08/03/11 10:22	DH	TAL SF

Client Sample ID: SP-G

Lab Sample ID: 720-36352-20

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			96379	08/01/11 10:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		10	96531	08/03/11 11:09	DH	TAL SF

Client Sample ID: SP-H

Lab Sample ID: 720-36352-21

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			96379	08/01/11 10:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		3	96531	08/03/11 10:45	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36352-18	SP-E	Solid	07/18/11 11:00	07/18/11 14:32
720-36352-19	SP-F	Solid	07/18/11 11:00	07/18/11 14:32
720-36352-20	SP-G	Solid	07/18/11 11:00	07/18/11 14:32
720-36352-21	SP-H	Solid	07/18/11 11:00	07/18/11 14:32

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Salimpour, Afsaneh

720-36352-2

From: Jeff Adams [jadams@engeo.com]
Sent: Wednesday, July 27, 2011 11:01 AM
To: Salimpour, Afsaneh
Subject: follow-up testing

Afsaneh –

Can we run discrete tests on Samples SP-E, SP-F, SP-G, and SP-H for total petroleum hydrocarbons as diesel w/ silica gel cleanup? Please use 5-day turnaround. I have attached the lab report for your reference.

Thanks!
Jeff

720 - 36352

Jeffrey A. Adams, PhD, PE, REA I
Associate



ENGEO Incorporated
2010 Crow Canyon Place, Suite 250
San Ramon, CA 94583
(925) 866-9000 Phone
(888) 279-2698 Fax

www.engeo.com

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Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36352-2

Login Number: 36352
List Number: 1
Creator: Apostol, Anita

List Source: TestAmerica San Francisco

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

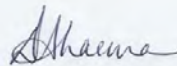
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36961-1
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
6399 San Ignacio Avenue
Suite 150
San Jose, California 95119

Attn: Mr. Jeff Adams



Authorized for release by:
08/18/2011 03:49:49 PM
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com

Designee for
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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Job ID: 720-36961-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36961-1

Comments

No additional comments.

Receipt

1/Sample #6 has ID as 5R-R on COC but 5N-R on container. Logged in as on COC.
2/Did not receive TRIP BLANK.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: 2S-R (720-36961-4), 2W-R (720-36961-5), 5R-R (720-36961-6), 5E-R (720-36961-7), 5S-R (720-36961-8), 5W-R (720-36961-9).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 3WSW-A-R

Lab Sample ID: 720-36961-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.3		1.0		mg/Kg	1		8015B	Total/NA

Client Sample ID: 3NW-A

Lab Sample ID: 720-36961-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.7		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: 3NW-B

Lab Sample ID: 720-36961-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.2		4.7		ug/Kg	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: 2S-R

Lab Sample ID: 720-36961-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	34		4.8		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	670		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2500		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	9.2		4.9		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	480		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1800		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	32		4.7		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	540		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2100		980		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	59		4.8		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	500		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1800		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5S-R

Lab Sample ID: 720-36961-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	42		4.6		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	630		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2200		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		48		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Toluene	37		4.9		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	580		20		mg/Kg	20		8015B	Total/NA

Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 5W-R (Continued)

Lab Sample ID: 720-36961-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5BASE-R

Lab Sample ID: 720-36961-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	11		4.6		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	13		1.0		mg/Kg	1		8015B	Total/NA

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: 3WSW-A-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Acetone	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Benzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Dichlorobromomethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Bromobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Bromoform	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Bromomethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
2-Butanone (MEK)	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
n-Butylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
sec-Butylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
tert-Butylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Carbon disulfide	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Carbon tetrachloride	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chloroethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chloroform	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chloromethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
2-Chlorotoluene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
4-Chlorotoluene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chlorodibromomethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,3-Dichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1-Dichloropropene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Ethylene Dibromide	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Dibromomethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1-Dichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1-Dichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Ethylbenzene	ND		4.7		ug/Kg		08/17/11 08:00	08/17/11 14:44	1
Hexachlorobutadiene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
2-Hexanone	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Isopropylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
4-Isopropyltoluene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Methylene Chloride	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Naphthalene	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
N-Propylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Styrene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3WSW-A-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Tetrachloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Toluene	ND		4.7		ug/Kg		08/17/11 08:00	08/17/11 14:44	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Trichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Trichlorofluoromethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Vinyl acetate	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Vinyl chloride	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Xylenes, Total	ND		9.3		ug/Kg		08/17/11 08:00	08/17/11 14:44	1
2,2-Dichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 01:35	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131	08/16/11 19:01	08/17/11 01:35	1
4-Bromofluorobenzene	100		45 - 131	08/17/11 08:00	08/17/11 14:44	1
1,2-Dichloroethane-d4 (Surr)	76		60 - 140	08/16/11 19:01	08/17/11 01:35	1
1,2-Dichloroethane-d4 (Surr)	83		60 - 140	08/17/11 08:00	08/17/11 14:44	1
Toluene-d8 (Surr)	95		58 - 140	08/16/11 19:01	08/17/11 01:35	1
Toluene-d8 (Surr)	96		58 - 140	08/17/11 08:00	08/17/11 14:44	1

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Bromomethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chloroethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Dibromomethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Ethylbenzene	ND		4.6		ug/Kg		08/17/11 08:00	08/17/11 15:13	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Methylene Chloride	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Naphthalene	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Toluene	ND		4.6		ug/Kg		08/17/11 08:00	08/17/11 15:13	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Xylenes, Total	ND		9.3		ug/Kg		08/17/11 08:00	08/17/11 15:13	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131				08/16/11 19:01	08/17/11 02:03	1
4-Bromofluorobenzene	99		45 - 131				08/17/11 08:00	08/17/11 15:13	1
1,2-Dichloroethane-d4 (Surr)	82		60 - 140				08/16/11 19:01	08/17/11 02:03	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140				08/17/11 08:00	08/17/11 15:13	1
Toluene-d8 (Surr)	96		58 - 140				08/16/11 19:01	08/17/11 02:03	1
Toluene-d8 (Surr)	95		58 - 140				08/17/11 08:00	08/17/11 15:13	1

Client Sample ID: 3NW-B
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Bromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chloroethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chloromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Dibromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3NW-B
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Ethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Methylene Chloride	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Naphthalene	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Toluene	5.2		4.7		ug/Kg		08/17/11 08:00	08/17/11 15:42	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Xylenes, Total	ND		9.4		ug/Kg		08/17/11 08:00	08/17/11 15:42	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131				08/16/11 19:01	08/17/11 02:32	1
4-Bromofluorobenzene	97		45 - 131				08/17/11 08:00	08/17/11 15:42	1
1,2-Dichloroethane-d4 (Surr)	76		60 - 140				08/16/11 19:01	08/17/11 02:32	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 140				08/17/11 08:00	08/17/11 15:42	1
Toluene-d8 (Surr)	95		58 - 140				08/16/11 19:01	08/17/11 02:32	1
Toluene-d8 (Surr)	96		58 - 140				08/17/11 08:00	08/17/11 15:42	1

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 2S-R

Date Collected: 08/16/11 14:30

Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Bromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chloroethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chloromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Dibromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Methylene Chloride	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Naphthalene	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	34		4.8		ug/Kg		08/17/11 08:00	08/17/11 16:10	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Xylenes, Total	ND		9.5		ug/Kg		08/17/11 08:00	08/17/11 16:10	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 03:01	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	08/16/11 19:01	08/17/11 03:01	1
4-Bromofluorobenzene	88		45 - 131	08/17/11 08:00	08/17/11 16:10	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 140	08/16/11 19:01	08/17/11 03:01	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 140	08/17/11 08:00	08/17/11 16:10	1
Toluene-d8 (Surr)	91		58 - 140	08/16/11 19:01	08/17/11 03:01	1
Toluene-d8 (Surr)	91		58 - 140	08/17/11 08:00	08/17/11 16:10	1

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Bromomethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chloroethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chloromethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Dibromomethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Methylene Chloride	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Naphthalene	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Toluene	9.2		4.9		ug/Kg		08/17/11 08:00	08/17/11 16:39	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Xylenes, Total	ND		9.8		ug/Kg		08/17/11 08:00	08/17/11 16:39	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Gasoline Range Organics (GRO)	ND		240		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
-C5-C12									

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		45 - 131	08/16/11 19:01	08/17/11 03:30	1
4-Bromofluorobenzene	86		45 - 131	08/17/11 08:00	08/17/11 16:39	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	08/16/11 19:01	08/17/11 03:30	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 140	08/17/11 08:00	08/17/11 16:39	1
Toluene-d8 (Surr)	90		58 - 140	08/16/11 19:01	08/17/11 03:30	1
Toluene-d8 (Surr)	90		58 - 140	08/17/11 08:00	08/17/11 16:39	1

Client Sample ID: 5R-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Bromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chloroethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chloromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Dibromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5R-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Methylene Chloride	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Naphthalene	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Toluene	32		4.7		ug/Kg		08/17/11 08:00	08/17/11 17:08	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Xylenes, Total	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		45 - 131				08/16/11 19:01	08/17/11 03:58	1
4-Bromofluorobenzene	91		45 - 131				08/17/11 08:00	08/17/11 17:08	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140				08/16/11 19:01	08/17/11 03:58	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 140				08/17/11 08:00	08/17/11 17:08	1
Toluene-d8 (Surr)	90		58 - 140				08/16/11 19:01	08/17/11 03:58	1
Toluene-d8 (Surr)	92		58 - 140				08/17/11 08:00	08/17/11 17:08	1

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Bromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chloroethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chloromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Dibromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Methylene Chloride	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Naphthalene	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Toluene	59		4.8		ug/Kg		08/17/11 08:00	08/17/11 18:35	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Xylenes, Total	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 04:27	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131	08/16/11 19:01	08/17/11 04:27	1
4-Bromofluorobenzene	87		45 - 131	08/17/11 08:00	08/17/11 18:35	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140	08/16/11 19:01	08/17/11 04:27	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140	08/17/11 08:00	08/17/11 18:35	1
Toluene-d8 (Surr)	90		58 - 140	08/16/11 19:01	08/17/11 04:27	1
Toluene-d8 (Surr)	92		58 - 140	08/17/11 08:00	08/17/11 18:35	1

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Bromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chloroethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chloromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Dibromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Ethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Methylene Chloride	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Naphthalene	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Toluene	42		4.6		ug/Kg		08/17/11 08:00	08/17/11 19:04	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Xylenes, Total	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/17/11 04:56	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131	08/16/11 19:01	08/17/11 04:56	1
4-Bromofluorobenzene	82		45 - 131	08/17/11 08:00	08/17/11 19:04	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	08/16/11 19:01	08/17/11 04:56	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140	08/17/11 08:00	08/17/11 19:04	1
Toluene-d8 (Surr)	91		58 - 140	08/16/11 19:01	08/17/11 04:56	1
Toluene-d8 (Surr)	91		58 - 140	08/17/11 08:00	08/17/11 19:04	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Acetone	110		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Bromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chloroethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chloromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Dibromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Methylene Chloride	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Naphthalene	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Toluene	37		4.9		ug/Kg		08/17/11 08:00	08/17/11 19:32	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Xylenes, Total	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 05:25	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	08/16/11 19:01	08/17/11 05:25	1
4-Bromofluorobenzene	88		45 - 131	08/17/11 08:00	08/17/11 19:32	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	08/16/11 19:01	08/17/11 05:25	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140	08/17/11 08:00	08/17/11 19:32	1
Toluene-d8 (Surr)	88		58 - 140	08/16/11 19:01	08/17/11 05:25	1
Toluene-d8 (Surr)	91		58 - 140	08/17/11 08:00	08/17/11 19:32	1

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Bromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chloroethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Dibromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Methylene Chloride	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Naphthalene	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Toluene	11		4.6		ug/Kg		08/17/11 08:00	08/17/11 20:01	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Xylenes, Total	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1

Client Sample Results

Client: Engeo, Inc.
 Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
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Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131				08/16/11 19:01	08/17/11 05:54	1
4-Bromofluorobenzene	97		45 - 131				08/17/11 08:00	08/17/11 20:01	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 140				08/16/11 19:01	08/17/11 05:54	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140				08/17/11 08:00	08/17/11 20:01	1
Toluene-d8 (Surr)	94		58 - 140				08/16/11 19:01	08/17/11 05:54	1
Toluene-d8 (Surr)	95		58 - 140				08/17/11 08:00	08/17/11 20:01	1



Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: 3WSW-A-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.3		1.0		mg/Kg		08/16/11 19:02	08/17/11 09:34	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/16/11 19:02	08/17/11 09:34	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	90		50 - 150				08/16/11 19:02	08/17/11 09:34	1

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.7		0.99		mg/Kg		08/16/11 19:02	08/17/11 09:34	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/16/11 19:02	08/17/11 09:34	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	96		50 - 150				08/16/11 19:02	08/17/11 09:34	1

Client Sample ID: 3NW-B
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/16/11 19:02	08/17/11 12:25	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/16/11 19:02	08/17/11 12:25	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	90		50 - 150				08/16/11 19:02	08/17/11 12:25	1

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	670		20		mg/Kg		08/16/11 19:02	08/17/11 10:22	20
Motor Oil Range Organics [C24-C36]	2500		990		mg/Kg		08/16/11 19:02	08/17/11 10:22	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D	50 - 150				08/16/11 19:02	08/17/11 10:22	20

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	480		20		mg/Kg		08/16/11 19:02	08/17/11 11:30	20
Motor Oil Range Organics [C24-C36]	1800		990		mg/Kg		08/16/11 19:02	08/17/11 11:30	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D	50 - 150				08/16/11 19:02	08/17/11 11:30	20

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: 5R-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	540		20		mg/Kg		08/16/11 19:02	08/17/11 12:25	20
Motor Oil Range Organics [C24-C36]	2100		980		mg/Kg		08/16/11 19:02	08/17/11 12:25	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D	50 - 150				08/16/11 19:02	08/17/11 12:25	20

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	500		20		mg/Kg		08/16/11 19:02	08/17/11 09:52	20
Motor Oil Range Organics [C24-C36]	1800		990		mg/Kg		08/16/11 19:02	08/17/11 09:52	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D	50 - 150				08/16/11 19:02	08/17/11 09:52	20

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	630		20		mg/Kg		08/16/11 19:02	08/17/11 10:39	20
Motor Oil Range Organics [C24-C36]	2200		990		mg/Kg		08/16/11 19:02	08/17/11 10:39	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D	50 - 150				08/16/11 19:02	08/17/11 10:39	20

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	580		20		mg/Kg		08/16/11 19:02	08/17/11 11:25	20
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg		08/16/11 19:02	08/17/11 11:25	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	D	50 - 150				08/16/11 19:02	08/17/11 11:25	20

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		1.0		mg/Kg		08/16/11 19:02	08/17/11 09:28	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/16/11 19:02	08/17/11 09:28	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>p-Terphenyl</i>	72		50 - 150	08/16/11 19:02	08/17/11 09:28	1

- 1
- 2
- 3
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-97392/1-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Bromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chloroethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chloromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Dibromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Ethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Methylene Chloride	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Naphthalene	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-97392/1-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97392

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Toluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Xylenes, Total	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/16/11 20:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	96		45 - 131	08/16/11 19:01	08/16/11 20:19	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140	08/16/11 19:01	08/16/11 20:19	1
Toluene-d8 (Surr)	97		58 - 140	08/16/11 19:01	08/16/11 20:19	1

Lab Sample ID: LCS 720-97392/2-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	50.8		ug/Kg		102	71 - 144
Acetone	250	197		ug/Kg		79	30 - 162
Benzene	50.0	49.0		ug/Kg		98	82 - 124
Dichlorobromomethane	50.0	51.8		ug/Kg		104	86 - 131
Bromobenzene	50.0	48.4		ug/Kg		97	88 - 120
Chlorobromomethane	50.0	54.0		ug/Kg		108	81 - 116
Bromoform	50.0	50.6		ug/Kg		101	59 - 158
Bromomethane	50.0	42.2		ug/Kg		84	59 - 132
2-Butanone (MEK)	250	215		ug/Kg		86	61 - 150
n-Butylbenzene	50.0	48.6		ug/Kg		97	80 - 142
sec-Butylbenzene	50.0	47.2		ug/Kg		94	85 - 136
tert-Butylbenzene	50.0	47.4		ug/Kg		95	71 - 130
Carbon disulfide	50.0	47.4		ug/Kg		95	60 - 136
Carbon tetrachloride	50.0	45.2		ug/Kg		90	81 - 138
Chlorobenzene	50.0	48.4		ug/Kg		97	87 - 113
Chloroethane	50.0	42.4		ug/Kg		85	65 - 126
Chloroform	50.0	48.8		ug/Kg		98	77 - 127
Chloromethane	50.0	41.6		ug/Kg		83	60 - 149
2-Chlorotoluene	50.0	48.6		ug/Kg		97	80 - 138
4-Chlorotoluene	50.0	47.4		ug/Kg		95	79 - 136

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-97392/2-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				Limits
Chlorodibromomethane	50.0	54.4		ug/Kg		109	75 - 146
1,2-Dichlorobenzene	50.0	48.8		ug/Kg		98	84 - 130
1,3-Dichlorobenzene	50.0	48.6		ug/Kg		97	84 - 131
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	85 - 125
1,3-Dichloropropane	50.0	53.2		ug/Kg		106	79 - 140
1,1-Dichloropropene	50.0	48.4		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/Kg		91	68 - 145
Ethylene Dibromide	50.0	54.2		ug/Kg		108	79 - 140
Dibromomethane	50.0	52.2		ug/Kg		104	80 - 139
Dichlorodifluoromethane	50.0	41.2		ug/Kg		82	37 - 158
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	85 - 124
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	72 - 130
1,1-Dichloroethene	50.0	44.4		ug/Kg		89	76 - 122
cis-1,2-Dichloroethene	50.0	56.4		ug/Kg		113	87 - 138
trans-1,2-Dichloroethene	50.0	41.0		ug/Kg		82	67 - 108
1,2-Dichloropropane	50.0	51.0		ug/Kg		102	73 - 127
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	84 - 136
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 137
Hexachlorobutadiene	50.0	43.2		ug/Kg		86	72 - 132
2-Hexanone	250	212		ug/Kg		85	60 - 161
Isopropylbenzene	50.0	50.0		ug/Kg		100	88 - 128
4-Isopropyltoluene	50.0	47.2		ug/Kg		94	85 - 133
Methylene Chloride	50.0	48.6		ug/Kg		97	72 - 134
4-Methyl-2-pentanone (MIBK)	250	216		ug/Kg		86	69 - 160
Naphthalene	50.0	49.4		ug/Kg		99	70 - 147
N-Propylbenzene	50.0	44.6		ug/Kg		89	72 - 125
Styrene	50.0	51.8		ug/Kg		104	89 - 126
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	90 - 130
1,1,1,2,2-Tetrachloroethane	50.0	45.4		ug/Kg		91	82 - 146
Tetrachloroethene	50.0	49.6		ug/Kg		99	78 - 132
Toluene	50.0	47.0		ug/Kg		94	83 - 128
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	82 - 135
1,2,4-Trichlorobenzene	50.0	50.4		ug/Kg		101	70 - 131
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	80 - 127
1,1,2-Trichloroethane	50.0	52.4		ug/Kg		105	82 - 125
Trichloroethene	50.0	48.8		ug/Kg		98	81 - 133
Trichlorofluoromethane	50.0	39.2		ug/Kg		78	71 - 139
1,2,3-Trichloropropane	50.0	46.8		ug/Kg		94	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	70 - 130
1,2,4-Trimethylbenzene	50.0	47.6		ug/Kg		95	84 - 130
1,3,5-Trimethylbenzene	50.0	48.2		ug/Kg		96	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		88	38 - 176
Vinyl chloride	50.0	40.0		ug/Kg		80	58 - 125
m-Xylene & p-Xylene	100	94.8		ug/Kg		95	79 - 146
o-Xylene	50.0	50.4		ug/Kg		101	84 - 140
2,2-Dichloropropane	50.0	50.4		ug/Kg		101	73 - 162

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-97392/2-A
Matrix: Solid
Analysis Batch: 97391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97392

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	99		58 - 140

Lab Sample ID: LCS 720-97392/4-A
Matrix: Solid
Analysis Batch: 97391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97392

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	1000	904		ug/Kg		90	61 - 128

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-97392/3-A
Matrix: Solid
Analysis Batch: 97391

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97392

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Methyl tert-butyl ether	49.8	50.6		ug/Kg		102	71 - 144	0	20
Acetone	249	191		ug/Kg		77	30 - 162	3	30
Benzene	49.8	47.8		ug/Kg		96	82 - 124	2	20
Dichlorobromomethane	49.8	50.4		ug/Kg		101	86 - 131	3	20
Bromobenzene	49.8	47.4		ug/Kg		95	88 - 120	2	20
Chlorobromomethane	49.8	53.2		ug/Kg		107	81 - 116	2	20
Bromoform	49.8	49.8		ug/Kg		100	59 - 158	2	20
Bromomethane	49.8	43.8		ug/Kg		88	59 - 132	4	20
2-Butanone (MEK)	249	212		ug/Kg		85	61 - 150	2	20
n-Butylbenzene	49.8	47.4		ug/Kg		95	80 - 142	2	20
sec-Butylbenzene	49.8	46.0		ug/Kg		92	85 - 136	3	20
tert-Butylbenzene	49.8	46.0		ug/Kg		92	71 - 130	3	20
Carbon disulfide	49.8	47.0		ug/Kg		94	60 - 136	1	20
Carbon tetrachloride	49.8	42.6		ug/Kg		86	81 - 138	6	20
Chlorobenzene	49.8	47.8		ug/Kg		96	87 - 113	1	20
Chloroethane	49.8	44.2		ug/Kg		89	65 - 126	4	20
Chloroform	49.8	47.2		ug/Kg		95	77 - 127	3	20
Chloromethane	49.8	45.0		ug/Kg		90	60 - 149	8	20
2-Chlorotoluene	49.8	47.2		ug/Kg		95	80 - 138	3	20
4-Chlorotoluene	49.8	46.8		ug/Kg		94	79 - 136	1	20
Chlorodibromomethane	49.8	52.6		ug/Kg		106	75 - 146	3	20
1,2-Dichlorobenzene	49.8	47.6		ug/Kg		96	84 - 130	2	20
1,3-Dichlorobenzene	49.8	47.6		ug/Kg		96	84 - 131	2	20
1,4-Dichlorobenzene	49.8	47.2		ug/Kg		95	85 - 125	2	20
1,3-Dichloropropane	49.8	53.0		ug/Kg		106	79 - 140	0	20
1,1-Dichloropropene	49.8	46.6		ug/Kg		94	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	49.8	44.4		ug/Kg		89	68 - 145	3	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-97392/3-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Ethylene Dibromide	49.8	53.4		ug/Kg		107	79 - 140	2	20	
Dibromomethane	49.8	51.8		ug/Kg		104	80 - 139	1	20	
Dichlorodifluoromethane	49.8	42.4		ug/Kg		85	37 - 158	3	20	
1,1-Dichloroethane	49.8	47.6		ug/Kg		96	85 - 124	1	20	
1,2-Dichloroethane	49.8	46.4		ug/Kg		93	72 - 130	3	20	
1,1-Dichloroethene	49.8	44.6		ug/Kg		90	76 - 122	0	20	
cis-1,2-Dichloroethene	49.8	55.0		ug/Kg		110	87 - 138	3	20	
trans-1,2-Dichloroethene	49.8	40.4		ug/Kg		81	67 - 108	1	20	
1,2-Dichloropropane	49.8	51.0		ug/Kg		102	73 - 127	0	20	
cis-1,3-Dichloropropene	49.8	53.8		ug/Kg		108	68 - 147	1	20	
trans-1,3-Dichloropropene	49.8	55.6		ug/Kg		112	84 - 136	2	20	
Ethylbenzene	49.8	46.2		ug/Kg		93	80 - 137	3	20	
Hexachlorobutadiene	49.8	42.4		ug/Kg		85	72 - 132	2	20	
2-Hexanone	249	205		ug/Kg		82	60 - 161	3	20	
Isopropylbenzene	49.8	48.6		ug/Kg		98	88 - 128	3	20	
4-Isopropyltoluene	49.8	46.4		ug/Kg		93	85 - 133	2	20	
Methylene Chloride	49.8	48.6		ug/Kg		98	72 - 134	0	20	
4-Methyl-2-pentanone (MIBK)	249	213		ug/Kg		85	69 - 160	2	20	
Naphthalene	49.8	47.8		ug/Kg		96	70 - 147	3	20	
N-Propylbenzene	49.8	43.8		ug/Kg		88	72 - 125	2	20	
Styrene	49.8	50.6		ug/Kg		102	89 - 126	2	20	
1,1,1,2-Tetrachloroethane	49.8	49.0		ug/Kg		98	90 - 130	2	20	
1,1,1,2,2-Tetrachloroethane	49.8	46.2		ug/Kg		93	82 - 146	2	20	
Tetrachloroethene	49.8	47.2		ug/Kg		95	78 - 132	5	20	
Toluene	49.8	46.2		ug/Kg		93	83 - 128	2	20	
1,2,3-Trichlorobenzene	49.8	51.4		ug/Kg		103	82 - 135	1	20	
1,2,4-Trichlorobenzene	49.8	49.4		ug/Kg		99	70 - 131	2	20	
1,1,1-Trichloroethane	49.8	44.0		ug/Kg		88	80 - 127	5	20	
1,1,1,2-Trichloroethane	49.8	52.2		ug/Kg		105	82 - 125	0	20	
Trichloroethene	49.8	47.0		ug/Kg		94	81 - 133	4	20	
Trichlorofluoromethane	49.8	38.8		ug/Kg		78	71 - 139	1	20	
1,2,3-Trichloropropane	49.8	46.6		ug/Kg		94	76 - 146	0	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	49.8	45.2		ug/Kg		91	70 - 130	3	20	
1,2,4-Trimethylbenzene	49.8	46.4		ug/Kg		93	84 - 130	3	20	
1,3,5-Trimethylbenzene	49.8	46.8		ug/Kg		94	82 - 131	3	20	
Vinyl acetate	49.8	ND		ug/Kg		91	38 - 176	3	20	
Vinyl chloride	49.8	42.2		ug/Kg		85	58 - 125	5	20	
m-Xylene & p-Xylene	99.6	92.4		ug/Kg		93	79 - 146	3	20	
o-Xylene	49.8	49.0		ug/Kg		98	84 - 140	3	20	
2,2-Dichloropropane	49.8	47.0		ug/Kg		94	73 - 162	7	20	

Surrogate	LCSD LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	98		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-97392/5-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	892		ug/Kg		89	61 - 128	1	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: 720-36961-1 MS

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	ND		49.5	44.4		ug/Kg		90	69 - 130
Acetone	ND		248	171		ug/Kg		69	37 - 150
Benzene	ND		49.5	49.3		ug/Kg		100	70 - 130
Dichlorobromomethane	ND		49.5	43.2		ug/Kg		87	64 - 135
Bromobenzene	ND		49.5	48.1		ug/Kg		97	70 - 130
Chlorobromomethane	ND		49.5	47.7		ug/Kg		96	65 - 130
Bromoform	ND		49.5	41.4		ug/Kg		84	58 - 132
Bromomethane	ND		49.5	45.5		ug/Kg		92	56 - 130
2-Butanone (MEK)	ND		248	185		ug/Kg		75	41 - 150
n-Butylbenzene	ND		49.5	51.7		ug/Kg		103	60 - 145
sec-Butylbenzene	ND		49.5	50.9		ug/Kg		102	64 - 137
tert-Butylbenzene	ND		49.5	49.1		ug/Kg		99	63 - 134
Carbon disulfide	ND		49.5	51.9		ug/Kg		105	10 - 150
Carbon tetrachloride	ND		49.5	35.2		ug/Kg		71	54 - 130
Chlorobenzene	ND		49.5	47.3		ug/Kg		96	70 - 130
Chloroethane	ND		49.5	49.9		ug/Kg		101	61 - 130
Chloroform	ND		49.5	42.8		ug/Kg		86	67 - 130
Chloromethane	ND		49.5	43.6		ug/Kg		88	50 - 131
2-Chlorotoluene	ND		49.5	52.7		ug/Kg		106	70 - 130
4-Chlorotoluene	ND		49.5	50.7		ug/Kg		102	70 - 130
Chlorodibromomethane	ND		49.5	42.4		ug/Kg		86	60 - 141
1,2-Dichlorobenzene	ND		49.5	47.1		ug/Kg		95	70 - 130
1,3-Dichlorobenzene	ND		49.5	48.3		ug/Kg		98	70 - 130
1,4-Dichlorobenzene	ND		49.5	47.7		ug/Kg		96	70 - 130
1,3-Dichloropropane	ND		49.5	48.1		ug/Kg		97	70 - 130
1,1-Dichloropropene	ND		49.5	46.1		ug/Kg		93	67 - 130
1,2-Dibromo-3-Chloropropane	ND		49.5	40.4		ug/Kg		82	57 - 130
Ethylene Dibromide	ND		49.5	45.1		ug/Kg		91	66 - 135
Dibromomethane	ND		49.5	44.4		ug/Kg		90	65 - 131
Dichlorodifluoromethane	ND		49.5	37.2		ug/Kg		75	38 - 130
1,1-Dichloroethane	ND		49.5	47.5		ug/Kg		96	67 - 130
1,2-Dichloroethane	ND		49.5	35.6		ug/Kg		72	70 - 130
1,1-Dichloroethene	ND		49.5	45.9		ug/Kg		92	64 - 130
cis-1,2-Dichloroethene	ND		49.5	52.1		ug/Kg		105	68 - 131
trans-1,2-Dichloroethene	ND		49.5	42.0		ug/Kg		85	70 - 130
1,2-Dichloropropane	ND		49.5	51.3		ug/Kg		104	65 - 133

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36961-1 MS

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
cis-1,3-Dichloropropene	ND		49.5	50.1		ug/Kg		101	46 - 139
trans-1,3-Dichloropropene	ND		49.5	47.3		ug/Kg		96	55 - 131
Ethylbenzene	11		49.5	81.6	F	ug/Kg		144	65 - 130
Hexachlorobutadiene	ND		49.5	39.4		ug/Kg		80	58 - 132
2-Hexanone	ND		248	158		ug/Kg		64	44 - 150
Isopropylbenzene	ND		49.5	47.9		ug/Kg		96	65 - 130
4-Isopropyltoluene	ND		49.5	49.5		ug/Kg		99	69 - 134
Methylene Chloride	ND		49.5	49.7		ug/Kg		96	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		248	174		ug/Kg		70	51 - 140
Naphthalene	ND		49.5	49.1		ug/Kg		97	45 - 146
N-Propylbenzene	ND		49.5	50.3		ug/Kg		100	70 - 130
Styrene	ND		49.5	49.7		ug/Kg		100	58 - 135
1,1,1,2-Tetrachloroethane	ND		49.5	44.4		ug/Kg		90	64 - 133
1,1,1,2,2-Tetrachloroethane	ND		49.5	48.1		ug/Kg		97	70 - 131
Tetrachloroethene	ND		49.5	41.8		ug/Kg		84	67 - 130
Toluene	32		49.5	151	F	ug/Kg		241	70 - 130
1,2,3-Trichlorobenzene	ND		49.5	46.5		ug/Kg		94	58 - 138
1,2,4-Trichlorobenzene	ND		49.5	46.1		ug/Kg		93	49 - 144
1,1,1-Trichloroethane	ND		49.5	37.8		ug/Kg		76	57 - 133
1,1,2-Trichloroethane	ND		49.5	47.5		ug/Kg		96	68 - 132
Trichloroethene	ND		49.5	45.0		ug/Kg		91	66 - 130
Trichlorofluoromethane	ND		49.5	33.9		ug/Kg		68	61 - 130
1,2,3-Trichloropropane	ND		49.5	43.2		ug/Kg		87	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.5	42.6		ug/Kg		86	52 - 130
1,2,4-Trimethylbenzene	ND		49.5	51.1		ug/Kg		102	64 - 140
1,3,5-Trimethylbenzene	ND		49.5	51.3		ug/Kg		103	67 - 134
Vinyl acetate	ND		49.5	ND		ug/Kg		60	52 - 150
Vinyl chloride	ND		49.5	43.8		ug/Kg		88	62 - 130
m-Xylene & p-Xylene	39		99.0	218	F	ug/Kg		181	70 - 130
o-Xylene	6.7		49.5	69.1		ug/Kg		126	68 - 130
2,2-Dichloropropane	ND		49.5	41.8		ug/Kg		84	63 - 130

Surrogate	MS	MS	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	73		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Lab Sample ID: 720-36961-1 MSD

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Methyl tert-butyl ether	ND		48.4	44.9		ug/Kg		93	69 - 130	1	20
Acetone	ND		242	176		ug/Kg		73	37 - 150	3	20
Benzene	ND		48.4	49.1		ug/Kg		102	70 - 130	0	20
Dichlorobromomethane	ND		48.4	42.4		ug/Kg		88	64 - 135	2	20
Bromobenzene	ND		48.4	47.2		ug/Kg		98	70 - 130	2	20
Chlorobromomethane	ND		48.4	47.8		ug/Kg		99	65 - 130	0	20
Bromoform	ND		48.4	41.6		ug/Kg		86	58 - 132	0	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36961-1 MSD

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Trichlorofluoromethane	ND		48.4	33.5		ug/Kg		69	61 - 130	1	20	
1,2,3-Trichloropropane	ND		48.4	42.9		ug/Kg		89	62 - 150	1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.4	41.6		ug/Kg		86	52 - 130	2	20	
1,2,4-Trimethylbenzene	ND		48.4	48.5		ug/Kg		99	64 - 140	5	20	
1,3,5-Trimethylbenzene	ND		48.4	49.5		ug/Kg		101	67 - 134	4	20	
Vinyl acetate	ND		48.4	ND		ug/Kg		64	52 - 150	4	20	
Vinyl chloride	ND		48.4	43.3		ug/Kg		90	62 - 130	1	20	
m-Xylene & p-Xylene	39		96.7	161	F	ug/Kg		126	70 - 130	30	20	
o-Xylene	6.7		48.4	58.8		ug/Kg		108	68 - 130	16	20	
2,2-Dichloropropane	ND		48.4	41.4		ug/Kg		86	63 - 130	1	20	

Surrogate	MSD	MSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	73		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Lab Sample ID: MB 720-97427/1-A

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97427

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	ND		5.0		ug/Kg		08/17/11 08:00	08/17/11 12:03	1
Toluene	ND		5.0		ug/Kg		08/17/11 08:00	08/17/11 12:03	1
Xylenes, Total	ND		10		ug/Kg		08/17/11 08:00	08/17/11 12:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	99		45 - 131	08/17/11 08:00	08/17/11 12:03	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140	08/17/11 08:00	08/17/11 12:03	1
Toluene-d8 (Surr)	95		58 - 140	08/17/11 08:00	08/17/11 12:03	1

Lab Sample ID: LCS 720-97427/2-A

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Ethylbenzene	50.0	48.8		ug/Kg		98	80 - 137	
Toluene	50.0	50.0		ug/Kg		100	83 - 128	
m-Xylene & p-Xylene	100	95.2		ug/Kg		95	79 - 146	
o-Xylene	50.0	50.4		ug/Kg		101	84 - 140	

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	88		60 - 140
Toluene-d8 (Surr)	96		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-97427/3-A

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 137	3	20	
Toluene	50.0	48.6		ug/Kg		97	83 - 128	3	20	
m-Xylene & p-Xylene	100	92.2		ug/Kg		92	79 - 146	3	20	
o-Xylene	50.0	48.6		ug/Kg		97	84 - 140	4	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	87		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Lab Sample ID: 720-36961-6 MS

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: 5R-R

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Ethylbenzene	ND		49.6	44.6		ug/Kg		90	65 - 130			
Toluene	32		49.6	99.6	F	ug/Kg		136	70 - 130			
m-Xylene & p-Xylene	ND		99.2	86.7		ug/Kg		86	70 - 130			
o-Xylene	ND		49.6	45.8		ug/Kg		90	68 - 130			

Surrogate	MS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	86		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	90		58 - 140

Lab Sample ID: 720-36961-6 MSD

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: 5R-R

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	% Rec	% Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Ethylbenzene	ND		47.7	44.5		ug/Kg		93	65 - 130	0	20	
Toluene	32		47.7	107	F	ug/Kg		157	70 - 130	7	20	
m-Xylene & p-Xylene	ND		95.4	86.5		ug/Kg		89	70 - 130	0	20	
o-Xylene	ND		47.7	46.2		ug/Kg		95	68 - 130	1	20	

Surrogate	MSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	87		45 - 131
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	92		58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-97393/1-A

Matrix: Solid

Analysis Batch: 97400

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97393

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/16/11 19:02	08/17/11 11:05	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-97393/1-A
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/16/11 19:02	08/17/11 11:05	1
Surrogate	% Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	98		50 - 150				08/16/11 19:02	08/17/11 11:05	1

Lab Sample ID: LCS 720-97393/2-A
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics [C10-C28]	83.1	75.6		mg/Kg		91	50 - 150
Surrogate	% Recovery	LCS Qualifier	Limits				
p-Terphenyl	109		50 - 150				

Lab Sample ID: LCSD 720-97393/3-A
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.4	76.5		mg/Kg		92	50 - 150	1	35
Surrogate	% Recovery	LCSD Qualifier	Limits						
p-Terphenyl	112		50 - 150						

Lab Sample ID: 720-36961-1 MS
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: 3WSW-A-R
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics [C10-C28]	1.3		83.3	68.6		mg/Kg		81	50 - 150
Surrogate	% Recovery	MS Qualifier	Limits						
p-Terphenyl	95		50 - 150						

Lab Sample ID: 720-36961-1 MSD
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: 3WSW-A-R
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1.3		82.2	74.1		mg/Kg		89	50 - 150	8	20
Surrogate	% Recovery	MSD Qualifier	Limits								
p-Terphenyl	102		50 - 150								

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

GC/MS VOA

Analysis Batch: 97391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97392/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCS 720-97392/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCSD 720-97392/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCS 720-97392/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCSD 720-97392/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-1	3WSW-A-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-2	3NW-A	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-3	3NW-B	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-4	2S-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-5	2W-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-6	5R-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-7	5E-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-8	5S-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-9	5W-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-10	5BASE-R	Total/NA	Solid	8260B/CA_LUFT MS	97392

Prep Batch: 97392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97392/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-97392/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-97392/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-97392/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-97392/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36961-1	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-2	3NW-A	Total/NA	Solid	5030B	
720-36961-3	3NW-B	Total/NA	Solid	5030B	
720-36961-4	2S-R	Total/NA	Solid	5030B	
720-36961-5	2W-R	Total/NA	Solid	5030B	
720-36961-6	5R-R	Total/NA	Solid	5030B	
720-36961-7	5E-R	Total/NA	Solid	5030B	
720-36961-8	5S-R	Total/NA	Solid	5030B	
720-36961-9	5W-R	Total/NA	Solid	5030B	
720-36961-10	5BASE-R	Total/NA	Solid	5030B	

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

GC/MS VOA (Continued)

Analysis Batch: 97408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97427/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT	97427
LCS 720-97427/2-A	Lab Control Sample	Total/NA	Solid	MS	97427
LCS 720-97427/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-1	3WSW-A-R	Total/NA	Solid	MS	97427
720-36961-2	3NW-A	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-3	3NW-B	Total/NA	Solid	MS	97427
720-36961-4	2S-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-5	2W-R	Total/NA	Solid	MS	97427
720-36961-6	5R-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-6 MS	5R-R	Total/NA	Solid	MS	97427
720-36961-6 MSD	5R-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-7	5E-R	Total/NA	Solid	MS	97427
720-36961-8	5S-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-9	5W-R	Total/NA	Solid	MS	97427
720-36961-10	5BASE-R	Total/NA	Solid	8260B/CA_LUFT	97427
				MS	

Prep Batch: 97427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97427/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-97427/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 720-97427/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36961-1	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-2	3NW-A	Total/NA	Solid	5030B	
720-36961-3	3NW-B	Total/NA	Solid	5030B	
720-36961-4	2S-R	Total/NA	Solid	5030B	
720-36961-5	2W-R	Total/NA	Solid	5030B	
720-36961-6	5R-R	Total/NA	Solid	5030B	
720-36961-6 MS	5R-R	Total/NA	Solid	5030B	
720-36961-6 MSD	5R-R	Total/NA	Solid	5030B	
720-36961-7	5E-R	Total/NA	Solid	5030B	
720-36961-8	5S-R	Total/NA	Solid	5030B	
720-36961-9	5W-R	Total/NA	Solid	5030B	
720-36961-10	5BASE-R	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 97393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97393/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-97393/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 720-97393/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

GC Semi VOA (Continued)

Prep Batch: 97393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-1	3WSW-A-R	Total/NA	Solid	3546	
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	3546	
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	3546	
720-36961-2	3NW-A	Total/NA	Solid	3546	
720-36961-3	3NW-B	Total/NA	Solid	3546	
720-36961-4	2S-R	Total/NA	Solid	3546	
720-36961-5	2W-R	Total/NA	Solid	3546	
720-36961-6	5R-R	Total/NA	Solid	3546	
720-36961-7	5E-R	Total/NA	Solid	3546	
720-36961-8	5S-R	Total/NA	Solid	3546	
720-36961-9	5W-R	Total/NA	Solid	3546	
720-36961-10	5BASE-R	Total/NA	Solid	3546	

Analysis Batch: 97399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-2	3NW-A	Total/NA	Solid	8015B	97393
720-36961-4	2S-R	Total/NA	Solid	8015B	97393
720-36961-5	2W-R	Total/NA	Solid	8015B	97393
720-36961-6	5R-R	Total/NA	Solid	8015B	97393

Analysis Batch: 97400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-1	3WSW-A-R	Total/NA	Solid	8015B	97393
LCS 720-97393/2-A	Lab Control Sample	Total/NA	Solid	8015B	97393
LCSD 720-97393/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	97393
MB 720-97393/1-A	Method Blank	Total/NA	Solid	8015B	97393
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	8015B	97393
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	8015B	97393
720-36961-3	3NW-B	Total/NA	Solid	8015B	97393

Analysis Batch: 97405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-10	5BASE-R	Total/NA	Solid	8015B	97393
720-36961-7	5E-R	Total/NA	Solid	8015B	97393
720-36961-8	5S-R	Total/NA	Solid	8015B	97393
720-36961-9	5W-R	Total/NA	Solid	8015B	97393

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 3WSW-A-R

Lab Sample ID: 720-36961-1

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 01:35	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 14:44	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97400	08/17/11 09:34	DH	TAL SF

Client Sample ID: 3NW-A

Lab Sample ID: 720-36961-2

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 02:03	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 15:13	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97399	08/17/11 09:34	DH	TAL SF

Client Sample ID: 3NW-B

Lab Sample ID: 720-36961-3

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 02:32	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 15:42	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97400	08/17/11 12:25	DH	TAL SF

Client Sample ID: 2S-R

Lab Sample ID: 720-36961-4

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 03:01	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 16:10	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97399	08/17/11 10:22	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 03:30	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 16:39	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97399	08/17/11 11:30	DH	TAL SF

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 03:58	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 17:08	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97399	08/17/11 12:25	DH	TAL SF

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 04:27	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 18:35	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97405	08/17/11 09:52	DH	TAL SF

Client Sample ID: 5S-R

Lab Sample ID: 720-36961-8

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 04:56	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 19:04	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97405	08/17/11 10:39	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 05:25	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 19:32	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97405	08/17/11 11:25	DH	TAL SF

Client Sample ID: 5BASE-R

Lab Sample ID: 720-36961-10

Date Collected: 08/16/11 16:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 05:54	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 20:01	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97405	08/17/11 09:28	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36961-1	3WSW-A-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-2	3NW-A	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-3	3NW-B	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-4	2S-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-5	2W-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-6	5R-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-7	5E-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-8	5S-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-9	5W-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-10	5BASE-R	Solid	08/16/11 16:30	08/16/11 17:05



720-36961

133117

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: *Phase 003*
 7380.000 003
 PROJECT NAME: *Macedo*
 SAMPLED BY: (SIGNATURE/PRINT) *Scott John / Scott Johns*
 PROJECT MANAGER: *Jeff Adams*
 ROUTING: E-MAIL *sjohns@engeo.com*; *jadams@engeo.com* Hard Copy *Scott Johns*

Vols + TPH - Gas (826)
 TPH - Diesel (805)

REMARKS
REQUIRED DETECTION LIMITS

1
2
3
4
5
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SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE
3WSW-A-R	8/16/11	2:30	Soil	1	lmer	ICE
3NW-A	/	/	/	/	/	/
3NW-B	/	/	/	/	/	/
2S-R	/	/	/	/	/	/
2W-R	/	/	/	/	/	/
5R-R	/	/	/	/	/	/
5E-R	/	/	/	/	/	/
5S-R	/	/	/	/	/	/
5W-R	/	/	/	/	/	/
5Bas-R	↓	4:30	↓	↓	↓	↓

RUSH

RELINQUISHED BY: (SIGNATURE) <i>Scott John</i>	DATE/TIME 8/16 5:05	RECEIVED BY: (SIGNATURE) <i>Jeff Adams</i>	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	



6399 SAN IGNACIO AVENUE, SUITE 150
 SAN JOSE, CALIFORNIA 95119
 (408) 574-4900 FAX (888) 279-2698
 WWW.ENGEO.COM

Results by Thur 8/18
 at Noon
 60°C

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36961-1

Login Number: 36961

List Source: TestAmerica San Francisco

List Number: 1

Creator: Hoang, Julie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SEE NCM
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

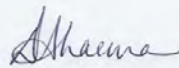
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36961-1
Client Project/Site: Macedo Remediation
Revision: 1

For:
Engeo, Inc.
6399 San Ignacio Avenue
Suite 150
San Jose, California 95119

Attn: Mr. Jeff Adams



Authorized for release by:
08/18/2011 05:19:28 PM
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com

Designee for
Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Job ID: 720-36961-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36961-1

Comments

No additional comments.

Receipt

1/Sample #6 has ID as 5R-R on COC but 5N-R on container. Logged in as on COC.
2/Did not receive TRIP BLANK.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: 2S-R (720-36961-4), 2W-R (720-36961-5), 5R-R (720-36961-6), 5E-R (720-36961-7), 5S-R (720-36961-8), 5W-R (720-36961-9).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 3WSW-A-R

Lab Sample ID: 720-36961-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.3		1.0		mg/Kg	1		8015B	Total/NA

Client Sample ID: 3NW-A

Lab Sample ID: 720-36961-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.7		0.99		mg/Kg	1		8015B	Total/NA

Client Sample ID: 3NW-B

Lab Sample ID: 720-36961-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.2		4.7		ug/Kg	1		8260B/CA_LUFTM	Total/NA

Client Sample ID: 2S-R

Lab Sample ID: 720-36961-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	34		4.8		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	670		20		mg/Kg	20		8015B	Total/NA

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	9.2		4.9		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	480		20		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	32		4.7		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	540		20		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	59		4.8		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	500		20		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5S-R

Lab Sample ID: 720-36961-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	42		4.6		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	630		20		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		48		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Toluene	37		4.9		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	580		20		mg/Kg	20		8015B	Total/NA

Client Sample ID: 5BASE-R

Lab Sample ID: 720-36961-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	11		4.6		ug/Kg	1		8260B/CA_LUFTM	Total/NA

Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 5BASE-R (Continued)

Lab Sample ID: 720-36961-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13		1.0		mg/Kg	1		8015B	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: 3WSW-A-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Acetone	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Benzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Dichlorobromomethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Bromobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Bromoform	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Bromomethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
2-Butanone (MEK)	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
n-Butylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
sec-Butylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
tert-Butylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Carbon disulfide	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Carbon tetrachloride	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chloroethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chloroform	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chloromethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
2-Chlorotoluene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
4-Chlorotoluene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Chlorodibromomethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,3-Dichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1-Dichloropropene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Ethylene Dibromide	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Dibromomethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1-Dichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1-Dichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2-Dichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Ethylbenzene	ND		4.7		ug/Kg		08/17/11 08:00	08/17/11 14:44	1
Hexachlorobutadiene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
2-Hexanone	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Isopropylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
4-Isopropyltoluene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Methylene Chloride	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Naphthalene	ND		9.8		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
N-Propylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Styrene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3WSW-A-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Tetrachloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Toluene	ND		4.7		ug/Kg		08/17/11 08:00	08/17/11 14:44	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Trichloroethene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Trichlorofluoromethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Vinyl acetate	ND		49		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Vinyl chloride	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Xylenes, Total	ND		9.3		ug/Kg		08/17/11 08:00	08/17/11 14:44	1
2,2-Dichloropropane	ND		4.9		ug/Kg		08/16/11 19:01	08/17/11 01:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 01:35	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131	08/16/11 19:01	08/17/11 01:35	1
4-Bromofluorobenzene	100		45 - 131	08/17/11 08:00	08/17/11 14:44	1
1,2-Dichloroethane-d4 (Surr)	76		60 - 140	08/16/11 19:01	08/17/11 01:35	1
1,2-Dichloroethane-d4 (Surr)	83		60 - 140	08/17/11 08:00	08/17/11 14:44	1
Toluene-d8 (Surr)	95		58 - 140	08/16/11 19:01	08/17/11 01:35	1
Toluene-d8 (Surr)	96		58 - 140	08/17/11 08:00	08/17/11 14:44	1

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Bromomethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chloroethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Dibromomethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Ethylbenzene	ND		4.6		ug/Kg		08/17/11 08:00	08/17/11 15:13	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Methylene Chloride	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Naphthalene	ND		10		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Toluene	ND		4.6		ug/Kg		08/17/11 08:00	08/17/11 15:13	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Xylenes, Total	ND		9.3		ug/Kg		08/17/11 08:00	08/17/11 15:13	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/17/11 02:03	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131				08/16/11 19:01	08/17/11 02:03	1
4-Bromofluorobenzene	99		45 - 131				08/17/11 08:00	08/17/11 15:13	1
1,2-Dichloroethane-d4 (Surr)	82		60 - 140				08/16/11 19:01	08/17/11 02:03	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140				08/17/11 08:00	08/17/11 15:13	1
Toluene-d8 (Surr)	96		58 - 140				08/16/11 19:01	08/17/11 02:03	1
Toluene-d8 (Surr)	95		58 - 140				08/17/11 08:00	08/17/11 15:13	1

Client Sample ID: 3NW-B
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Bromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chloroethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chloromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Dibromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3NW-B
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Ethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Methylene Chloride	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Naphthalene	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Toluene	5.2		4.7		ug/Kg		08/17/11 08:00	08/17/11 15:42	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Xylenes, Total	ND		9.4		ug/Kg		08/17/11 08:00	08/17/11 15:42	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/17/11 02:32	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131				08/16/11 19:01	08/17/11 02:32	1
4-Bromofluorobenzene	97		45 - 131				08/17/11 08:00	08/17/11 15:42	1
1,2-Dichloroethane-d4 (Surr)	76		60 - 140				08/16/11 19:01	08/17/11 02:32	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 140				08/17/11 08:00	08/17/11 15:42	1
Toluene-d8 (Surr)	95		58 - 140				08/16/11 19:01	08/17/11 02:32	1
Toluene-d8 (Surr)	96		58 - 140				08/17/11 08:00	08/17/11 15:42	1

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Bromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chloroethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chloromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Dibromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Methylene Chloride	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Naphthalene	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	34		4.8		ug/Kg		08/17/11 08:00	08/17/11 16:10	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Xylenes, Total	ND		9.5		ug/Kg		08/17/11 08:00	08/17/11 16:10	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 03:01	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	08/16/11 19:01	08/17/11 03:01	1
4-Bromofluorobenzene	88		45 - 131	08/17/11 08:00	08/17/11 16:10	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 140	08/16/11 19:01	08/17/11 03:01	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 140	08/17/11 08:00	08/17/11 16:10	1
Toluene-d8 (Surr)	91		58 - 140	08/16/11 19:01	08/17/11 03:01	1
Toluene-d8 (Surr)	91		58 - 140	08/17/11 08:00	08/17/11 16:10	1

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Bromomethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chloroethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chloromethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Dibromomethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Methylene Chloride	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Naphthalene	ND		9.5		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Toluene	9.2		4.9		ug/Kg		08/17/11 08:00	08/17/11 16:39	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Xylenes, Total	ND		9.8		ug/Kg		08/17/11 08:00	08/17/11 16:39	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
Gasoline Range Organics (GRO)	ND		240		ug/Kg		08/16/11 19:01	08/17/11 03:30	1
-C5-C12									

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		45 - 131	08/16/11 19:01	08/17/11 03:30	1
4-Bromofluorobenzene	86		45 - 131	08/17/11 08:00	08/17/11 16:39	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	08/16/11 19:01	08/17/11 03:30	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 140	08/17/11 08:00	08/17/11 16:39	1
Toluene-d8 (Surr)	90		58 - 140	08/16/11 19:01	08/17/11 03:30	1
Toluene-d8 (Surr)	90		58 - 140	08/17/11 08:00	08/17/11 16:39	1

Client Sample ID: 5R-R

Date Collected: 08/16/11 14:30

Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Bromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chloroethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chloromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Dibromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5R-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Methylene Chloride	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Naphthalene	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Toluene	32		4.7		ug/Kg		08/17/11 08:00	08/17/11 17:08	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Xylenes, Total	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 03:58	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	89		45 - 131				08/16/11 19:01	08/17/11 03:58	1
4-Bromofluorobenzene	91		45 - 131				08/17/11 08:00	08/17/11 17:08	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140				08/16/11 19:01	08/17/11 03:58	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 140				08/17/11 08:00	08/17/11 17:08	1
Toluene-d8 (Surr)	90		58 - 140				08/16/11 19:01	08/17/11 03:58	1
Toluene-d8 (Surr)	92		58 - 140				08/17/11 08:00	08/17/11 17:08	1

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Bromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chloroethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chloromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Dibromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Methylene Chloride	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Naphthalene	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Toluene	59		4.8		ug/Kg		08/17/11 08:00	08/17/11 18:35	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Xylenes, Total	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 04:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 04:27	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131	08/16/11 19:01	08/17/11 04:27	1
4-Bromofluorobenzene	87		45 - 131	08/17/11 08:00	08/17/11 18:35	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140	08/16/11 19:01	08/17/11 04:27	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140	08/17/11 08:00	08/17/11 18:35	1
Toluene-d8 (Surr)	90		58 - 140	08/16/11 19:01	08/17/11 04:27	1
Toluene-d8 (Surr)	92		58 - 140	08/17/11 08:00	08/17/11 18:35	1

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Bromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chloroethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chloromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Dibromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Ethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Methylene Chloride	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Naphthalene	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Toluene	42		4.6		ug/Kg		08/17/11 08:00	08/17/11 19:04	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Xylenes, Total	ND		9.9		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/17/11 04:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/17/11 04:56	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131	08/16/11 19:01	08/17/11 04:56	1
4-Bromofluorobenzene	82		45 - 131	08/17/11 08:00	08/17/11 19:04	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	08/16/11 19:01	08/17/11 04:56	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140	08/17/11 08:00	08/17/11 19:04	1
Toluene-d8 (Surr)	91		58 - 140	08/16/11 19:01	08/17/11 04:56	1
Toluene-d8 (Surr)	91		58 - 140	08/17/11 08:00	08/17/11 19:04	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Acetone	110		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Bromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chloroethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chloromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Dibromomethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Methylene Chloride	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Naphthalene	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Toluene	37		4.9		ug/Kg		08/17/11 08:00	08/17/11 19:32	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Xylenes, Total	ND		9.6		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 05:25	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	08/16/11 19:01	08/17/11 05:25	1
4-Bromofluorobenzene	88		45 - 131	08/17/11 08:00	08/17/11 19:32	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	08/16/11 19:01	08/17/11 05:25	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140	08/17/11 08:00	08/17/11 19:32	1
Toluene-d8 (Surr)	88		58 - 140	08/16/11 19:01	08/17/11 05:25	1
Toluene-d8 (Surr)	91		58 - 140	08/17/11 08:00	08/17/11 19:32	1

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Acetone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Benzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Bromobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chlorobromomethane	ND		19		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Bromoform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Bromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2-Butanone (MEK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
n-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Carbon disulfide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chloroethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chloroform	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Dibromomethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Ethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2-Hexanone	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Isopropylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Methylene Chloride	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Naphthalene	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
N-Propylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Styrene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Tetrachloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Toluene	11		4.6		ug/Kg		08/17/11 08:00	08/17/11 20:01	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Trichloroethene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Vinyl acetate	ND		48		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Vinyl chloride	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
Xylenes, Total	ND		9.7		ug/Kg		08/16/11 19:01	08/17/11 05:54	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/16/11 19:01	08/17/11 05:54	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/11 19:01	08/17/11 05:54	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	08/16/11 19:01	08/17/11 05:54	1
4-Bromofluorobenzene	97		45 - 131	08/17/11 08:00	08/17/11 20:01	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 140	08/16/11 19:01	08/17/11 05:54	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140	08/17/11 08:00	08/17/11 20:01	1
Toluene-d8 (Surr)	94		58 - 140	08/16/11 19:01	08/17/11 05:54	1
Toluene-d8 (Surr)	95		58 - 140	08/17/11 08:00	08/17/11 20:01	1



Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: 3WSW-A-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.3		1.0		mg/Kg		08/16/11 19:02	08/17/11 09:34	1
Surrogate	% Recovery	Qualifier	Limits						
p-Terphenyl	90		50 - 150						
							Prepared	Analyzed	Dil Fac
							08/16/11 19:02	08/17/11 09:34	1

Client Sample ID: 3NW-A
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.7		0.99		mg/Kg		08/16/11 19:02	08/17/11 09:34	1
Surrogate	% Recovery	Qualifier	Limits						
p-Terphenyl	96		50 - 150						
							Prepared	Analyzed	Dil Fac
							08/16/11 19:02	08/17/11 09:34	1

Client Sample ID: 3NW-B
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/16/11 19:02	08/17/11 12:25	1
Surrogate	% Recovery	Qualifier	Limits						
p-Terphenyl	90		50 - 150						
							Prepared	Analyzed	Dil Fac
							08/16/11 19:02	08/17/11 12:25	1

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	670		20		mg/Kg		08/16/11 19:02	08/17/11 10:22	20
Surrogate	% Recovery	Qualifier	Limits						
p-Terphenyl	0	D	50 - 150						
							Prepared	Analyzed	Dil Fac
							08/16/11 19:02	08/17/11 10:22	20

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	480		20		mg/Kg		08/16/11 19:02	08/17/11 11:30	20
Surrogate	% Recovery	Qualifier	Limits						
p-Terphenyl	0	D	50 - 150						
							Prepared	Analyzed	Dil Fac
							08/16/11 19:02	08/17/11 11:30	20

Client Sample ID: 5R-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	540		20		mg/Kg		08/16/11 19:02	08/17/11 12:25	20

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl	0	D	50 - 150	08/16/11 19:02	08/17/11 12:25	20

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	500		20		mg/Kg		08/16/11 19:02	08/17/11 09:52	20

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl	0	D	50 - 150	08/16/11 19:02	08/17/11 09:52	20

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	630		20		mg/Kg		08/16/11 19:02	08/17/11 10:39	20

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl	0	D	50 - 150	08/16/11 19:02	08/17/11 10:39	20

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	580		20		mg/Kg		08/16/11 19:02	08/17/11 11:25	20

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl	0	D	50 - 150	08/16/11 19:02	08/17/11 11:25	20

Client Sample ID: 5BASE-R
Date Collected: 08/16/11 16:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		1.0		mg/Kg		08/16/11 19:02	08/17/11 09:28	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>p</i> -Terphenyl	72		50 - 150	08/16/11 19:02	08/17/11 09:28	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-97392/1-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Acetone	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Benzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Bromobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chlorobromomethane	ND		20		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Bromoform	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Bromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2-Butanone (MEK)	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
n-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Carbon disulfide	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chloroethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chloroform	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chloromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Dibromomethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Ethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2-Hexanone	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Isopropylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Methylene Chloride	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Naphthalene	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
N-Propylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Styrene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-97392/1-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97392

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Tetrachloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Toluene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Trichloroethene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Vinyl acetate	ND		50		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Vinyl chloride	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Xylenes, Total	ND		9.9		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/16/11 19:01	08/16/11 20:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/16/11 19:01	08/16/11 20:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	96		45 - 131	08/16/11 19:01	08/16/11 20:19	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140	08/16/11 19:01	08/16/11 20:19	1
Toluene-d8 (Surr)	97		58 - 140	08/16/11 19:01	08/16/11 20:19	1

Lab Sample ID: LCS 720-97392/2-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	50.8		ug/Kg		102	71 - 144
Acetone	250	197		ug/Kg		79	30 - 162
Benzene	50.0	49.0		ug/Kg		98	82 - 124
Dichlorobromomethane	50.0	51.8		ug/Kg		104	86 - 131
Bromobenzene	50.0	48.4		ug/Kg		97	88 - 120
Chlorobromomethane	50.0	54.0		ug/Kg		108	81 - 116
Bromoform	50.0	50.6		ug/Kg		101	59 - 158
Bromomethane	50.0	42.2		ug/Kg		84	59 - 132
2-Butanone (MEK)	250	215		ug/Kg		86	61 - 150
n-Butylbenzene	50.0	48.6		ug/Kg		97	80 - 142
sec-Butylbenzene	50.0	47.2		ug/Kg		94	85 - 136
tert-Butylbenzene	50.0	47.4		ug/Kg		95	71 - 130
Carbon disulfide	50.0	47.4		ug/Kg		95	60 - 136
Carbon tetrachloride	50.0	45.2		ug/Kg		90	81 - 138
Chlorobenzene	50.0	48.4		ug/Kg		97	87 - 113
Chloroethane	50.0	42.4		ug/Kg		85	65 - 126
Chloroform	50.0	48.8		ug/Kg		98	77 - 127
Chloromethane	50.0	41.6		ug/Kg		83	60 - 149
2-Chlorotoluene	50.0	48.6		ug/Kg		97	80 - 138
4-Chlorotoluene	50.0	47.4		ug/Kg		95	79 - 136

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-97392/2-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				Limits
Chlorodibromomethane	50.0	54.4		ug/Kg		109	75 - 146
1,2-Dichlorobenzene	50.0	48.8		ug/Kg		98	84 - 130
1,3-Dichlorobenzene	50.0	48.6		ug/Kg		97	84 - 131
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	85 - 125
1,3-Dichloropropane	50.0	53.2		ug/Kg		106	79 - 140
1,1-Dichloropropene	50.0	48.4		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/Kg		91	68 - 145
Ethylene Dibromide	50.0	54.2		ug/Kg		108	79 - 140
Dibromomethane	50.0	52.2		ug/Kg		104	80 - 139
Dichlorodifluoromethane	50.0	41.2		ug/Kg		82	37 - 158
1,1-Dichloroethane	50.0	48.2		ug/Kg		96	85 - 124
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	72 - 130
1,1-Dichloroethene	50.0	44.4		ug/Kg		89	76 - 122
cis-1,2-Dichloroethene	50.0	56.4		ug/Kg		113	87 - 138
trans-1,2-Dichloroethene	50.0	41.0		ug/Kg		82	67 - 108
1,2-Dichloropropane	50.0	51.0		ug/Kg		102	73 - 127
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	84 - 136
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 137
Hexachlorobutadiene	50.0	43.2		ug/Kg		86	72 - 132
2-Hexanone	250	212		ug/Kg		85	60 - 161
Isopropylbenzene	50.0	50.0		ug/Kg		100	88 - 128
4-Isopropyltoluene	50.0	47.2		ug/Kg		94	85 - 133
Methylene Chloride	50.0	48.6		ug/Kg		97	72 - 134
4-Methyl-2-pentanone (MIBK)	250	216		ug/Kg		86	69 - 160
Naphthalene	50.0	49.4		ug/Kg		99	70 - 147
N-Propylbenzene	50.0	44.6		ug/Kg		89	72 - 125
Styrene	50.0	51.8		ug/Kg		104	89 - 126
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	90 - 130
1,1,1,2,2-Tetrachloroethane	50.0	45.4		ug/Kg		91	82 - 146
Tetrachloroethene	50.0	49.6		ug/Kg		99	78 - 132
Toluene	50.0	47.0		ug/Kg		94	83 - 128
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	82 - 135
1,2,4-Trichlorobenzene	50.0	50.4		ug/Kg		101	70 - 131
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	80 - 127
1,1,2-Trichloroethane	50.0	52.4		ug/Kg		105	82 - 125
Trichloroethene	50.0	48.8		ug/Kg		98	81 - 133
Trichlorofluoromethane	50.0	39.2		ug/Kg		78	71 - 139
1,2,3-Trichloropropane	50.0	46.8		ug/Kg		94	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	70 - 130
1,2,4-Trimethylbenzene	50.0	47.6		ug/Kg		95	84 - 130
1,3,5-Trimethylbenzene	50.0	48.2		ug/Kg		96	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		88	38 - 176
Vinyl chloride	50.0	40.0		ug/Kg		80	58 - 125
m-Xylene & p-Xylene	100	94.8		ug/Kg		95	79 - 146
o-Xylene	50.0	50.4		ug/Kg		101	84 - 140
2,2-Dichloropropane	50.0	50.4		ug/Kg		101	73 - 162

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-97392/2-A
Matrix: Solid
Analysis Batch: 97391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97392

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	99		58 - 140

Lab Sample ID: LCS 720-97392/4-A
Matrix: Solid
Analysis Batch: 97391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97392

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	1000	904		ug/Kg		90	61 - 128

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCS 720-97392/3-A
Matrix: Solid
Analysis Batch: 97391

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97392

Analyte	Spike Added	LCS 720-97392/3-A		Unit	D	% Rec	% Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Methyl tert-butyl ether	49.8	50.6		ug/Kg		102	71 - 144	0	20
Acetone	249	191		ug/Kg		77	30 - 162	3	30
Benzene	49.8	47.8		ug/Kg		96	82 - 124	2	20
Dichlorobromomethane	49.8	50.4		ug/Kg		101	86 - 131	3	20
Bromobenzene	49.8	47.4		ug/Kg		95	88 - 120	2	20
Chlorobromomethane	49.8	53.2		ug/Kg		107	81 - 116	2	20
Bromoform	49.8	49.8		ug/Kg		100	59 - 158	2	20
Bromomethane	49.8	43.8		ug/Kg		88	59 - 132	4	20
2-Butanone (MEK)	249	212		ug/Kg		85	61 - 150	2	20
n-Butylbenzene	49.8	47.4		ug/Kg		95	80 - 142	2	20
sec-Butylbenzene	49.8	46.0		ug/Kg		92	85 - 136	3	20
tert-Butylbenzene	49.8	46.0		ug/Kg		92	71 - 130	3	20
Carbon disulfide	49.8	47.0		ug/Kg		94	60 - 136	1	20
Carbon tetrachloride	49.8	42.6		ug/Kg		86	81 - 138	6	20
Chlorobenzene	49.8	47.8		ug/Kg		96	87 - 113	1	20
Chloroethane	49.8	44.2		ug/Kg		89	65 - 126	4	20
Chloroform	49.8	47.2		ug/Kg		95	77 - 127	3	20
Chloromethane	49.8	45.0		ug/Kg		90	60 - 149	8	20
2-Chlorotoluene	49.8	47.2		ug/Kg		95	80 - 138	3	20
4-Chlorotoluene	49.8	46.8		ug/Kg		94	79 - 136	1	20
Chlorodibromomethane	49.8	52.6		ug/Kg		106	75 - 146	3	20
1,2-Dichlorobenzene	49.8	47.6		ug/Kg		96	84 - 130	2	20
1,3-Dichlorobenzene	49.8	47.6		ug/Kg		96	84 - 131	2	20
1,4-Dichlorobenzene	49.8	47.2		ug/Kg		95	85 - 125	2	20
1,3-Dichloropropane	49.8	53.0		ug/Kg		106	79 - 140	0	20
1,1-Dichloropropene	49.8	46.6		ug/Kg		94	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	49.8	44.4		ug/Kg		89	68 - 145	3	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-97392/3-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Ethylene Dibromide	49.8	53.4		ug/Kg		107	79 - 140	2	20	
Dibromomethane	49.8	51.8		ug/Kg		104	80 - 139	1	20	
Dichlorodifluoromethane	49.8	42.4		ug/Kg		85	37 - 158	3	20	
1,1-Dichloroethane	49.8	47.6		ug/Kg		96	85 - 124	1	20	
1,2-Dichloroethane	49.8	46.4		ug/Kg		93	72 - 130	3	20	
1,1-Dichloroethene	49.8	44.6		ug/Kg		90	76 - 122	0	20	
cis-1,2-Dichloroethene	49.8	55.0		ug/Kg		110	87 - 138	3	20	
trans-1,2-Dichloroethene	49.8	40.4		ug/Kg		81	67 - 108	1	20	
1,2-Dichloropropane	49.8	51.0		ug/Kg		102	73 - 127	0	20	
cis-1,3-Dichloropropene	49.8	53.8		ug/Kg		108	68 - 147	1	20	
trans-1,3-Dichloropropene	49.8	55.6		ug/Kg		112	84 - 136	2	20	
Ethylbenzene	49.8	46.2		ug/Kg		93	80 - 137	3	20	
Hexachlorobutadiene	49.8	42.4		ug/Kg		85	72 - 132	2	20	
2-Hexanone	249	205		ug/Kg		82	60 - 161	3	20	
Isopropylbenzene	49.8	48.6		ug/Kg		98	88 - 128	3	20	
4-Isopropyltoluene	49.8	46.4		ug/Kg		93	85 - 133	2	20	
Methylene Chloride	49.8	48.6		ug/Kg		98	72 - 134	0	20	
4-Methyl-2-pentanone (MIBK)	249	213		ug/Kg		85	69 - 160	2	20	
Naphthalene	49.8	47.8		ug/Kg		96	70 - 147	3	20	
N-Propylbenzene	49.8	43.8		ug/Kg		88	72 - 125	2	20	
Styrene	49.8	50.6		ug/Kg		102	89 - 126	2	20	
1,1,1,2-Tetrachloroethane	49.8	49.0		ug/Kg		98	90 - 130	2	20	
1,1,1,2,2-Tetrachloroethane	49.8	46.2		ug/Kg		93	82 - 146	2	20	
Tetrachloroethene	49.8	47.2		ug/Kg		95	78 - 132	5	20	
Toluene	49.8	46.2		ug/Kg		93	83 - 128	2	20	
1,2,3-Trichlorobenzene	49.8	51.4		ug/Kg		103	82 - 135	1	20	
1,2,4-Trichlorobenzene	49.8	49.4		ug/Kg		99	70 - 131	2	20	
1,1,1-Trichloroethane	49.8	44.0		ug/Kg		88	80 - 127	5	20	
1,1,1,2-Trichloroethane	49.8	52.2		ug/Kg		105	82 - 125	0	20	
Trichloroethene	49.8	47.0		ug/Kg		94	81 - 133	4	20	
Trichlorofluoromethane	49.8	38.8		ug/Kg		78	71 - 139	1	20	
1,2,3-Trichloropropane	49.8	46.6		ug/Kg		94	76 - 146	0	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	49.8	45.2		ug/Kg		91	70 - 130	3	20	
1,2,4-Trimethylbenzene	49.8	46.4		ug/Kg		93	84 - 130	3	20	
1,3,5-Trimethylbenzene	49.8	46.8		ug/Kg		94	82 - 131	3	20	
Vinyl acetate	49.8	ND		ug/Kg		91	38 - 176	3	20	
Vinyl chloride	49.8	42.2		ug/Kg		85	58 - 125	5	20	
m-Xylene & p-Xylene	99.6	92.4		ug/Kg		93	79 - 146	3	20	
o-Xylene	49.8	49.0		ug/Kg		98	84 - 140	3	20	
2,2-Dichloropropane	49.8	47.0		ug/Kg		94	73 - 162	7	20	

Surrogate	LCSD LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	98		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-97392/5-A

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	892		ug/Kg		89	61 - 128	1	20

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: 720-36961-1 MS

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	ND		49.5	44.4		ug/Kg		90	69 - 130
Acetone	ND		248	171		ug/Kg		69	37 - 150
Benzene	ND		49.5	49.3		ug/Kg		100	70 - 130
Dichlorobromomethane	ND		49.5	43.2		ug/Kg		87	64 - 135
Bromobenzene	ND		49.5	48.1		ug/Kg		97	70 - 130
Chlorobromomethane	ND		49.5	47.7		ug/Kg		96	65 - 130
Bromoform	ND		49.5	41.4		ug/Kg		84	58 - 132
Bromomethane	ND		49.5	45.5		ug/Kg		92	56 - 130
2-Butanone (MEK)	ND		248	185		ug/Kg		75	41 - 150
n-Butylbenzene	ND		49.5	51.7		ug/Kg		103	60 - 145
sec-Butylbenzene	ND		49.5	50.9		ug/Kg		102	64 - 137
tert-Butylbenzene	ND		49.5	49.1		ug/Kg		99	63 - 134
Carbon disulfide	ND		49.5	51.9		ug/Kg		105	10 - 150
Carbon tetrachloride	ND		49.5	35.2		ug/Kg		71	54 - 130
Chlorobenzene	ND		49.5	47.3		ug/Kg		96	70 - 130
Chloroethane	ND		49.5	49.9		ug/Kg		101	61 - 130
Chloroform	ND		49.5	42.8		ug/Kg		86	67 - 130
Chloromethane	ND		49.5	43.6		ug/Kg		88	50 - 131
2-Chlorotoluene	ND		49.5	52.7		ug/Kg		106	70 - 130
4-Chlorotoluene	ND		49.5	50.7		ug/Kg		102	70 - 130
Chlorodibromomethane	ND		49.5	42.4		ug/Kg		86	60 - 141
1,2-Dichlorobenzene	ND		49.5	47.1		ug/Kg		95	70 - 130
1,3-Dichlorobenzene	ND		49.5	48.3		ug/Kg		98	70 - 130
1,4-Dichlorobenzene	ND		49.5	47.7		ug/Kg		96	70 - 130
1,3-Dichloropropane	ND		49.5	48.1		ug/Kg		97	70 - 130
1,1-Dichloropropene	ND		49.5	46.1		ug/Kg		93	67 - 130
1,2-Dibromo-3-Chloropropane	ND		49.5	40.4		ug/Kg		82	57 - 130
Ethylene Dibromide	ND		49.5	45.1		ug/Kg		91	66 - 135
Dibromomethane	ND		49.5	44.4		ug/Kg		90	65 - 131
Dichlorodifluoromethane	ND		49.5	37.2		ug/Kg		75	38 - 130
1,1-Dichloroethane	ND		49.5	47.5		ug/Kg		96	67 - 130
1,2-Dichloroethane	ND		49.5	35.6		ug/Kg		72	70 - 130
1,1-Dichloroethene	ND		49.5	45.9		ug/Kg		92	64 - 130
cis-1,2-Dichloroethene	ND		49.5	52.1		ug/Kg		105	68 - 131
trans-1,2-Dichloroethene	ND		49.5	42.0		ug/Kg		85	70 - 130
1,2-Dichloropropane	ND		49.5	51.3		ug/Kg		104	65 - 133

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36961-1 MS

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
cis-1,3-Dichloropropene	ND		49.5	50.1		ug/Kg		101	46 - 139	
trans-1,3-Dichloropropene	ND		49.5	47.3		ug/Kg		96	55 - 131	
Ethylbenzene	11		49.5	81.6	F	ug/Kg		144	65 - 130	
Hexachlorobutadiene	ND		49.5	39.4		ug/Kg		80	58 - 132	
2-Hexanone	ND		248	158		ug/Kg		64	44 - 150	
Isopropylbenzene	ND		49.5	47.9		ug/Kg		96	65 - 130	
4-Isopropyltoluene	ND		49.5	49.5		ug/Kg		99	69 - 134	
Methylene Chloride	ND		49.5	49.7		ug/Kg		96	63 - 130	
4-Methyl-2-pentanone (MIBK)	ND		248	174		ug/Kg		70	51 - 140	
Naphthalene	ND		49.5	49.1		ug/Kg		97	45 - 146	
N-Propylbenzene	ND		49.5	50.3		ug/Kg		100	70 - 130	
Styrene	ND		49.5	49.7		ug/Kg		100	58 - 135	
1,1,1,2-Tetrachloroethane	ND		49.5	44.4		ug/Kg		90	64 - 133	
1,1,1,2,2-Tetrachloroethane	ND		49.5	48.1		ug/Kg		97	70 - 131	
Tetrachloroethene	ND		49.5	41.8		ug/Kg		84	67 - 130	
Toluene	32		49.5	151	F	ug/Kg		241	70 - 130	
1,2,3-Trichlorobenzene	ND		49.5	46.5		ug/Kg		94	58 - 138	
1,2,4-Trichlorobenzene	ND		49.5	46.1		ug/Kg		93	49 - 144	
1,1,1-Trichloroethane	ND		49.5	37.8		ug/Kg		76	57 - 133	
1,1,2-Trichloroethane	ND		49.5	47.5		ug/Kg		96	68 - 132	
Trichloroethene	ND		49.5	45.0		ug/Kg		91	66 - 130	
Trichlorofluoromethane	ND		49.5	33.9		ug/Kg		68	61 - 130	
1,2,3-Trichloropropane	ND		49.5	43.2		ug/Kg		87	62 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.5	42.6		ug/Kg		86	52 - 130	
1,2,4-Trimethylbenzene	ND		49.5	51.1		ug/Kg		102	64 - 140	
1,3,5-Trimethylbenzene	ND		49.5	51.3		ug/Kg		103	67 - 134	
Vinyl acetate	ND		49.5	ND		ug/Kg		60	52 - 150	
Vinyl chloride	ND		49.5	43.8		ug/Kg		88	62 - 130	
m-Xylene & p-Xylene	39		99.0	218	F	ug/Kg		181	70 - 130	
o-Xylene	6.7		49.5	69.1		ug/Kg		126	68 - 130	
2,2-Dichloropropane	ND		49.5	41.8		ug/Kg		84	63 - 130	

Surrogate	MS MS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	73		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Lab Sample ID: 720-36961-1 MSD

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits		
Methyl tert-butyl ether	ND		48.4	44.9		ug/Kg		93	69 - 130	1	20	
Acetone	ND		242	176		ug/Kg		73	37 - 150	3	20	
Benzene	ND		48.4	49.1		ug/Kg		102	70 - 130	0	20	
Dichlorobromomethane	ND		48.4	42.4		ug/Kg		88	64 - 135	2	20	
Bromobenzene	ND		48.4	47.2		ug/Kg		98	70 - 130	2	20	
Chlorobromomethane	ND		48.4	47.8		ug/Kg		99	65 - 130	0	20	
Bromoform	ND		48.4	41.6		ug/Kg		86	58 - 132	0	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36961-1 MSD

Matrix: Solid

Analysis Batch: 97391

Client Sample ID: 3WSW-A-R

Prep Type: Total/NA

Prep Batch: 97392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Trichlorofluoromethane	ND		48.4	33.5		ug/Kg		69	61 - 130	1	20	
1,2,3-Trichloropropane	ND		48.4	42.9		ug/Kg		89	62 - 150	1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.4	41.6		ug/Kg		86	52 - 130	2	20	
1,2,4-Trimethylbenzene	ND		48.4	48.5		ug/Kg		99	64 - 140	5	20	
1,3,5-Trimethylbenzene	ND		48.4	49.5		ug/Kg		101	67 - 134	4	20	
Vinyl acetate	ND		48.4	ND		ug/Kg		64	52 - 150	4	20	
Vinyl chloride	ND		48.4	43.3		ug/Kg		90	62 - 130	1	20	
m-Xylene & p-Xylene	39		96.7	161	F	ug/Kg		126	70 - 130	30	20	
o-Xylene	6.7		48.4	58.8		ug/Kg		108	68 - 130	16	20	
2,2-Dichloropropane	ND		48.4	41.4		ug/Kg		86	63 - 130	1	20	

Surrogate	MSD	MSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	73		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Lab Sample ID: MB 720-97427/1-A

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97427

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	ND		5.0		ug/Kg		08/17/11 08:00	08/17/11 12:03	1
Toluene	ND		5.0		ug/Kg		08/17/11 08:00	08/17/11 12:03	1
Xylenes, Total	ND		10		ug/Kg		08/17/11 08:00	08/17/11 12:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	99		45 - 131	08/17/11 08:00	08/17/11 12:03	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140	08/17/11 08:00	08/17/11 12:03	1
Toluene-d8 (Surr)	95		58 - 140	08/17/11 08:00	08/17/11 12:03	1

Lab Sample ID: LCS 720-97427/2-A

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Ethylbenzene	50.0	48.8		ug/Kg		98	80 - 137	
Toluene	50.0	50.0		ug/Kg		100	83 - 128	
m-Xylene & p-Xylene	100	95.2		ug/Kg		95	79 - 146	
o-Xylene	50.0	50.4		ug/Kg		101	84 - 140	

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	88		60 - 140
Toluene-d8 (Surr)	96		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-97427/3-A

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD
							Limits	RPD	
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 137	3	20
Toluene	50.0	48.6		ug/Kg		97	83 - 128	3	20
m-Xylene & p-Xylene	100	92.2		ug/Kg		92	79 - 146	3	20
o-Xylene	50.0	48.6		ug/Kg		97	84 - 140	4	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	87		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Lab Sample ID: 720-36961-6 MS

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: 5R-R

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	
				Result	Qualifier				Limits	RPD
Ethylbenzene	ND		49.6	44.6		ug/Kg		90	65 - 130	
Toluene	32		49.6	99.6	F	ug/Kg		136	70 - 130	
m-Xylene & p-Xylene	ND		99.2	86.7		ug/Kg		86	70 - 130	
o-Xylene	ND		49.6	45.8		ug/Kg		90	68 - 130	

Surrogate	MS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	86		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	90		58 - 140

Lab Sample ID: 720-36961-6 MSD

Matrix: Solid

Analysis Batch: 97408

Client Sample ID: 5R-R

Prep Type: Total/NA

Prep Batch: 97427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	% Rec	% Rec.		RPD
				Result	Qualifier				Limits	RPD	
Ethylbenzene	ND		47.7	44.5		ug/Kg		93	65 - 130	0	20
Toluene	32		47.7	107	F	ug/Kg		157	70 - 130	7	20
m-Xylene & p-Xylene	ND		95.4	86.5		ug/Kg		89	70 - 130	0	20
o-Xylene	ND		47.7	46.2		ug/Kg		95	68 - 130	1	20

Surrogate	MSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	87		45 - 131
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
Toluene-d8 (Surr)	92		58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-97393/1-A

Matrix: Solid

Analysis Batch: 97400

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97393

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/16/11 19:02	08/17/11 11:05	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-97393/1-A
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97393

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
p-Terphenyl	98		50 - 150	08/16/11 19:02	08/17/11 11:05	1

Lab Sample ID: LCS 720-97393/2-A
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Diesel Range Organics [C10-C28]	83.1	75.6		mg/Kg		91	50 - 150

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
p-Terphenyl	109		50 - 150

Lab Sample ID: LCSD 720-97393/3-A
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec. Limits	RPD	Limit
		Result	Qualifier						
Diesel Range Organics [C10-C28]	83.4	76.5		mg/Kg		92	50 - 150	1	35

Surrogate	LCSD LCSD		Limits
	% Recovery	Qualifier	
p-Terphenyl	112		50 - 150

Lab Sample ID: 720-36961-1 MS
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: 3WSW-A-R
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	% Rec	% Rec. Limits
				Result	Qualifier				
Diesel Range Organics [C10-C28]	1.3		83.3	68.6		mg/Kg		81	50 - 150

Surrogate	MS MS		Limits
	% Recovery	Qualifier	
p-Terphenyl	95		50 - 150

Lab Sample ID: 720-36961-1 MSD
Matrix: Solid
Analysis Batch: 97400

Client Sample ID: 3WSW-A-R
Prep Type: Total/NA
Prep Batch: 97393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	% Rec	% Rec. Limits	RPD	Limit
				Result	Qualifier						
Diesel Range Organics [C10-C28]	1.3		82.2	74.1		mg/Kg		89	50 - 150	8	20

Surrogate	MSD MSD		Limits
	% Recovery	Qualifier	
p-Terphenyl	102		50 - 150

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

GC/MS VOA

Analysis Batch: 97391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97392/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCS 720-97392/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCSD 720-97392/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCS 720-97392/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	97392
LCSD 720-97392/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-1	3WSW-A-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-2	3NW-A	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-3	3NW-B	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-4	2S-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-5	2W-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-6	5R-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-7	5E-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-8	5S-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-9	5W-R	Total/NA	Solid	8260B/CA_LUFT MS	97392
720-36961-10	5BASE-R	Total/NA	Solid	8260B/CA_LUFT MS	97392

Prep Batch: 97392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97392/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-97392/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-97392/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-97392/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-97392/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36961-1	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-2	3NW-A	Total/NA	Solid	5030B	
720-36961-3	3NW-B	Total/NA	Solid	5030B	
720-36961-4	2S-R	Total/NA	Solid	5030B	
720-36961-5	2W-R	Total/NA	Solid	5030B	
720-36961-6	5R-R	Total/NA	Solid	5030B	
720-36961-7	5E-R	Total/NA	Solid	5030B	
720-36961-8	5S-R	Total/NA	Solid	5030B	
720-36961-9	5W-R	Total/NA	Solid	5030B	
720-36961-10	5BASE-R	Total/NA	Solid	5030B	

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

GC/MS VOA (Continued)

Analysis Batch: 97408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97427/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT	97427
LCS 720-97427/2-A	Lab Control Sample	Total/NA	Solid	MS	97427
LCSD 720-97427/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-1	3WSW-A-R	Total/NA	Solid	MS	97427
720-36961-2	3NW-A	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-3	3NW-B	Total/NA	Solid	MS	97427
720-36961-4	2S-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-5	2W-R	Total/NA	Solid	MS	97427
720-36961-6	5R-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-6 MS	5R-R	Total/NA	Solid	MS	97427
720-36961-6 MSD	5R-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-7	5E-R	Total/NA	Solid	MS	97427
720-36961-8	5S-R	Total/NA	Solid	8260B/CA_LUFT	97427
720-36961-9	5W-R	Total/NA	Solid	MS	97427
720-36961-10	5BASE-R	Total/NA	Solid	8260B/CA_LUFT	97427
				MS	

Prep Batch: 97427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97427/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-97427/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-97427/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36961-1	3WSW-A-R	Total/NA	Solid	5030B	
720-36961-2	3NW-A	Total/NA	Solid	5030B	
720-36961-3	3NW-B	Total/NA	Solid	5030B	
720-36961-4	2S-R	Total/NA	Solid	5030B	
720-36961-5	2W-R	Total/NA	Solid	5030B	
720-36961-6	5R-R	Total/NA	Solid	5030B	
720-36961-6 MS	5R-R	Total/NA	Solid	5030B	
720-36961-6 MSD	5R-R	Total/NA	Solid	5030B	
720-36961-7	5E-R	Total/NA	Solid	5030B	
720-36961-8	5S-R	Total/NA	Solid	5030B	
720-36961-9	5W-R	Total/NA	Solid	5030B	
720-36961-10	5BASE-R	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 97393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97393/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-97393/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-97393/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

GC Semi VOA (Continued)

Prep Batch: 97393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-1	3WSW-A-R	Total/NA	Solid	3546	
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	3546	
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	3546	
720-36961-2	3NW-A	Total/NA	Solid	3546	
720-36961-3	3NW-B	Total/NA	Solid	3546	
720-36961-4	2S-R	Total/NA	Solid	3546	
720-36961-5	2W-R	Total/NA	Solid	3546	
720-36961-6	5R-R	Total/NA	Solid	3546	
720-36961-7	5E-R	Total/NA	Solid	3546	
720-36961-8	5S-R	Total/NA	Solid	3546	
720-36961-9	5W-R	Total/NA	Solid	3546	
720-36961-10	5BASE-R	Total/NA	Solid	3546	

Analysis Batch: 97399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-2	3NW-A	Total/NA	Solid	8015B	97393
720-36961-4	2S-R	Total/NA	Solid	8015B	97393
720-36961-5	2W-R	Total/NA	Solid	8015B	97393
720-36961-6	5R-R	Total/NA	Solid	8015B	97393

Analysis Batch: 97400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-1	3WSW-A-R	Total/NA	Solid	8015B	97393
LCS 720-97393/2-A	Lab Control Sample	Total/NA	Solid	8015B	97393
LCSD 720-97393/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	97393
MB 720-97393/1-A	Method Blank	Total/NA	Solid	8015B	97393
720-36961-1 MS	3WSW-A-R	Total/NA	Solid	8015B	97393
720-36961-1 MSD	3WSW-A-R	Total/NA	Solid	8015B	97393
720-36961-3	3NW-B	Total/NA	Solid	8015B	97393

Analysis Batch: 97405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-10	5BASE-R	Total/NA	Solid	8015B	97393
720-36961-7	5E-R	Total/NA	Solid	8015B	97393
720-36961-8	5S-R	Total/NA	Solid	8015B	97393
720-36961-9	5W-R	Total/NA	Solid	8015B	97393

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 3WSW-A-R

Lab Sample ID: 720-36961-1

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 01:35	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 14:44	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97400	08/17/11 09:34	DH	TAL SF

Client Sample ID: 3NW-A

Lab Sample ID: 720-36961-2

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 02:03	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 15:13	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97399	08/17/11 09:34	DH	TAL SF

Client Sample ID: 3NW-B

Lab Sample ID: 720-36961-3

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 02:32	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 15:42	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97400	08/17/11 12:25	DH	TAL SF

Client Sample ID: 2S-R

Lab Sample ID: 720-36961-4

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 03:01	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 16:10	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97399	08/17/11 10:22	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 03:30	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 16:39	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97399	08/17/11 11:30	DH	TAL SF

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 03:58	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 17:08	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97399	08/17/11 12:25	DH	TAL SF

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 04:27	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 18:35	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97405	08/17/11 09:52	DH	TAL SF

Client Sample ID: 5S-R

Lab Sample ID: 720-36961-8

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 04:56	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 19:04	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97405	08/17/11 10:39	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 05:25	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 19:32	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		20	97405	08/17/11 11:25	DH	TAL SF

Client Sample ID: 5BASE-R

Lab Sample ID: 720-36961-10

Date Collected: 08/16/11 16:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			97392	08/16/11 19:01	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97391	08/17/11 05:54	LL	TAL SF
Total/NA	Prep	5030B			97427	08/17/11 08:00	PGM	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	97408	08/17/11 20:01	LL	TAL SF
Total/NA	Prep	3546			97393	08/16/11 19:02	RU	TAL SF
Total/NA	Analysis	8015B		1	97405	08/17/11 09:28	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36961-1	3WSW-A-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-2	3NW-A	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-3	3NW-B	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-4	2S-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-5	2W-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-6	5R-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-7	5E-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-8	5S-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-9	5W-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-10	5BASE-R	Solid	08/16/11 16:30	08/16/11 17:05



720-36961

133117

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: Phase 003
 PROJECT NAME: Macedo
 SAMPLED BY: (SIGNATURE/PRINT) Scott Johns / Scott Johns
 PROJECT MANAGER: Jeff Adams
 ROUTING: E-MAIL sjohns@engeo.com; jadams@engeo.com
 Hard Copy: Scott Johns

Vols + TPH - Gas (826)
 TPH - Diesel (805)

REMARKS
 REQUIRED DETECTION LIMITS

1
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SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE
3WSW-A-R	8/16/11	2:30	Soil	1	2mer	ICE
3NW-A	/	/	/	/	/	/
3NW-B	/	/	/	/	/	/
2S-R	/	/	/	/	/	/
2W-R	/	/	/	/	/	/
5R-R	/	/	/	/	/	/
5E-R	/	/	/	/	/	/
5S-R	/	/	/	/	/	/
5W-R	/	/	/	/	/	/
5Bas-R	↓	4:30	↓	↓	↓	↓

RUSH

RELINQUISHED BY: (SIGNATURE) <i>Scott Johns</i>	DATE/TIME 8/16 5:05	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	



6399 SAN IGNACIO AVENUE, SUITE 150
 SAN JOSE, CALIFORNIA 95119
 (408) 574-4900 FAX (888) 279-2698
 WWW.ENGEO.COM

Results by Thur 8/18
 at Noon
 60°C

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36961-1

Login Number: 36961

List Source: TestAmerica San Francisco

List Number: 1

Creator: Hoang, Julie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SEE NCM
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

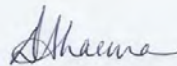
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36961-2
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
6399 San Ignacio Avenue
Suite 150
San Jose, California 95119

Attn: Mr. Jeff Adams



Authorized for release by:
08/19/2011 03:22:45 PM
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com

Designee for
Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Job ID: 720-36961-2

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36961-2

Comments

No additional comments.

Receipt

1/Sample #6 has ID as 5R-R on COC but 5N-R on container. Logged in as on COC.
2/Did not receive TRIP BLANK.

All other samples were received in good condition within temperature requirements.

GC Semi VOA

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: 5E-R (720-36961-7), 5R-R (720-36961-6), 5S-R (720-36961-8), 5W-R (720-36961-9).

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: 2S-R (720-36961-4), 2W-R (720-36961-5).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Client Sample ID: 2S-R

Lab Sample ID: 720-36961-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	470		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	430		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	430		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	380		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: 5S-R

Lab Sample ID: 720-36961-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	550		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	470		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	470		20		mg/Kg		08/18/11 19:47	08/19/11 09:58	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/18/11 19:47	08/19/11 09:58	20
p-Terphenyl	0	D	38 - 148				08/18/11 19:47	08/19/11 09:58	20

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	430		20		mg/Kg		08/18/11 19:47	08/19/11 09:34	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/18/11 19:47	08/19/11 09:34	20
p-Terphenyl	0	D	38 - 148				08/18/11 19:47	08/19/11 09:34	20

Client Sample ID: 5R-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	430		20		mg/Kg		08/18/11 19:47	08/19/11 09:58	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/18/11 19:47	08/19/11 09:58	20
p-Terphenyl	0	D	38 - 148				08/18/11 19:47	08/19/11 09:58	20

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	380		20		mg/Kg		08/18/11 19:47	08/19/11 09:34	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/18/11 19:47	08/19/11 09:34	20
p-Terphenyl	0	D	38 - 148				08/18/11 19:47	08/19/11 09:34	20

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	550		20		mg/Kg		08/18/11 19:47	08/19/11 11:08	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/18/11 19:47	08/19/11 11:08	20
p-Terphenyl	0	D	38 - 148				08/18/11 19:47	08/19/11 11:08	20

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	470		20		mg/Kg		08/18/11 19:47	08/19/11 11:40	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				08/18/11 19:47	08/19/11 11:40	20
p-Terphenyl	0	D	38 - 148				08/18/11 19:47	08/19/11 11:40	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-97545/1-A

Matrix: Solid

Analysis Batch: 97551

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 97545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/18/11 19:47	08/19/11 11:40	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	08/18/11 19:47	08/19/11 11:40	1
p-Terphenyl	95		38 - 148	08/18/11 19:47	08/19/11 11:40	1

Lab Sample ID: LCS 720-97545/2-A

Matrix: Solid

Analysis Batch: 97551

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 97545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics [C10-C28]	83.1	76.3		mg/Kg		92	50 - 150

Surrogate	LCS % Recovery	LCS Qualifier	Limits
p-Terphenyl	102		38 - 148

Lab Sample ID: LCSD 720-97545/3-A

Matrix: Solid

Analysis Batch: 97551

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 97545

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	83.4	73.7		mg/Kg		88	50 - 150	3	35

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
p-Terphenyl	97		38 - 148

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

GC Semi VOA

Prep Batch: 97545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97545/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-97545/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-97545/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36961-4	2S-R	Silica Gel Cleanup	Solid	3546	
720-36961-5	2W-R	Silica Gel Cleanup	Solid	3546	
720-36961-6	5R-R	Silica Gel Cleanup	Solid	3546	
720-36961-7	5E-R	Silica Gel Cleanup	Solid	3546	
720-36961-8	5S-R	Silica Gel Cleanup	Solid	3546	
720-36961-9	5W-R	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 97550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-7	5E-R	Silica Gel Cleanup	Solid	8015B	97545
720-36961-6	5R-R	Silica Gel Cleanup	Solid	8015B	97545
720-36961-8	5S-R	Silica Gel Cleanup	Solid	8015B	97545
720-36961-9	5W-R	Silica Gel Cleanup	Solid	8015B	97545

Analysis Batch: 97551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-5	2W-R	Silica Gel Cleanup	Solid	8015B	97545
720-36961-4	2S-R	Silica Gel Cleanup	Solid	8015B	97545
LCS 720-97545/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	97545
LCSD 720-97545/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	97545
MB 720-97545/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	97545

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Client Sample ID: 2S-R

Lab Sample ID: 720-36961-4

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			97545	08/18/11 19:47	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	97551	08/19/11 09:58	DH	TAL SF

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			97545	08/18/11 19:47	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	97551	08/19/11 09:34	DH	TAL SF

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			97545	08/18/11 19:47	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	97550	08/19/11 09:58	DH	TAL SF

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			97545	08/18/11 19:47	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	97550	08/19/11 09:34	DH	TAL SF

Client Sample ID: 5S-R

Lab Sample ID: 720-36961-8

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			97545	08/18/11 19:47	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	97550	08/19/11 11:08	DH	TAL SF

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			97545	08/18/11 19:47	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	97550	08/19/11 11:40	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.

Project/Site: Macedo Remediation

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Job ID: 720-36961-2

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Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36961-4	2S-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-5	2W-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-6	5R-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-7	5E-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-8	5S-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-9	5W-R	Solid	08/16/11 14:30	08/16/11 17:05

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720-36961-2

720-36961-3

Sharma, Dimple

From: Jeff Adams [jadams@engeo.com]
Sent: Thursday, August 18, 2011 5:08 PM
To: Sharma, Dimple
Cc: Scott Johns; Morgan Johnson; Shawn Munger
Subject: RE: Files from 720-36961-1 Macedo Remediation
Importance: High



Dimple –

Thank you for forwarding the report.

Please note we did not ask for TPH-mo to be analyzed and reported – only TPH-d and VOCs. Can you re-issue report omitting the TPH-mo?

Also, can you run samples 2S-R, 2W-R, 5R-R, 5E-R, 5S-R, AND 5W-R for TPH-diesel (8015) w/ silica gel cleanup on a 24-hour turnaround? Further, please run samples 2S-R and 5S-R for soluble TPH-diesel w/ silica gel using STLC-WET procedure with de-ionized water as the extractant. Please do this on a 72-hr turnaround.

Thank you,
Jeff

Please re-run samples

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Thursday, August 18, 2011 3:51 PM
To: Jeff Adams
Subject: Files from 720-36961-1 Macedo Remediation

DIMPLE SHARMA

TestAmerica San Francisco
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [088353]
Attachments: 2



Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36961-2

Login Number: 36961

List Source: TestAmerica San Francisco

List Number: 1

Creator: Hoang, Julie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SEE NCM
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36961-3
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
6399 San Ignacio Avenue
Suite 150
San Jose, California 95119

Attn: Mr. Jeff Adams



Authorized for release by:
08/23/2011 02:14:07 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Job ID: 720-36961-3

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36961-3

Comments

No additional comments.

Receipt

1/Sample #6 has ID as 5R-R on COC but 5N-R on container. Logged in as on COC.
2/Did not receive TRIP BLANK.

All other samples were received in good condition within temperature requirements.

GC Semi VOA

No analytical or quality issues were noted.

General Chemistry

Method(s) DI Leach: Reduced initial amount due to insufficient sample.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Client Sample ID: 2S-R

Lab Sample ID: 720-36961-4

No Detections

Client Sample ID: 5S-R

Lab Sample ID: 720-36961-8

No Detections

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Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Method: 8015B - Diesel Range Organics (DRO) (GC) - Soluble

Client Sample ID: 2S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500		ug/L		08/22/11 14:19	08/22/11 18:48	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.09		0 - 5				08/22/11 14:19	08/22/11 18:48	1
p-Terphenyl	94		31 - 150				08/22/11 14:19	08/22/11 18:48	1

Client Sample ID: 5S-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		500		ug/L		08/22/11 14:19	08/23/11 09:23	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.8		0 - 5				08/22/11 14:19	08/23/11 09:23	1
p-Terphenyl	102		31 - 150				08/22/11 14:19	08/23/11 09:23	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-97615/1-B

Matrix: Solid

Analysis Batch: 97651

Client Sample ID: Method Blank

Prep Type: Soluble

Prep Batch: 97687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/22/11 14:19	08/22/11 19:58	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 5	08/22/11 14:19	08/22/11 19:58	1
p-Terphenyl	104		31 - 150	08/22/11 14:19	08/22/11 19:58	1

Lab Sample ID: LCS 720-97615/2-B

Matrix: Solid

Analysis Batch: 97651

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Batch: 97687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics [C10-C28]	2500	2010		ug/L		81	32 - 119

Surrogate	LCS % Recovery	LCS Qualifier	Limits
p-Terphenyl	104		31 - 150

Lab Sample ID: LCSD 720-97615/3-B

Matrix: Solid

Analysis Batch: 97651

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Batch: 97687

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	2500	1900		ug/L		76	32 - 119	6	35

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
p-Terphenyl	104		31 - 150

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

GC Semi VOA

Leach Batch: 97615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97615/1-B	Method Blank	Soluble	Solid	DI Leach	
LCS 720-97615/2-B	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 720-97615/3-B	Lab Control Sample Dup	Soluble	Solid	DI Leach	
720-36961-4	2S-R	Soluble	Solid	DI Leach	
720-36961-8	5S-R	Soluble	Solid	DI Leach	

Analysis Batch: 97651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-4	2S-R	Soluble	Solid	8015B	97687
LCS 720-97615/2-B	Lab Control Sample	Soluble	Solid	8015B	97687
LCSD 720-97615/3-B	Lab Control Sample Dup	Soluble	Solid	8015B	97687
MB 720-97615/1-B	Method Blank	Soluble	Solid	8015B	97687

Prep Batch: 97687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97615/1-B	Method Blank	Soluble	Solid	3510C SGC	97615
LCS 720-97615/2-B	Lab Control Sample	Soluble	Solid	3510C SGC	97615
LCSD 720-97615/3-B	Lab Control Sample Dup	Soluble	Solid	3510C SGC	97615
720-36961-4	2S-R	Soluble	Solid	3510C SGC	97615
720-36961-8	5S-R	Soluble	Solid	3510C SGC	97615

Analysis Batch: 97737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36961-8	5S-R	Soluble	Solid	8015B	97687

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Client Sample ID: 2S-R

Date Collected: 08/16/11 14:30

Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			97615	08/20/11 08:35	JRM	TAL SF
Soluble	Prep	3510C SGC			97687	08/22/11 14:19	AM	TAL SF
Soluble	Analysis	8015B		1	97651	08/22/11 18:48	DH	TAL SF

Client Sample ID: 5S-R

Date Collected: 08/16/11 14:30

Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			97615	08/20/11 08:35	JRM	TAL SF
Soluble	Prep	3510C SGC			97687	08/22/11 14:19	AM	TAL SF
Soluble	Analysis	8015B		1	97737	08/23/11 09:23	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36961-4	2S-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-8	5S-R	Solid	08/16/11 14:30	08/16/11 17:05

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Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36961-3

Login Number: 36961

List Source: TestAmerica San Francisco

List Number: 1

Creator: Hoang, Julie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SEE NCM
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36961-4
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
6399 San Ignacio Avenue
Suite 150
San Jose, California 95119

Attn: Mr. Jeff Adams



Authorized for release by:
08/24/2011 03:41:06 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Job ID: 720-36961-4

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36961-4

Comments

No additional comments.

Receipt

All other samples were received in good condition within temperature requirements.

GC/MS Semi VOA

Method(s) 8270C SIM: The following sample(s) was diluted due to the abundance of non-target analytes: 2W-R (720-36961-5), 5E-R (720-36961-7), 5R-R (720-36961-6), 5W-R (720-36961-9). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

No Detections

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	110		50		ug/Kg	10		8270C SIM	Total/NA
Chrysene	67		50		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	60		50		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	70		50		ug/Kg	10		8270C SIM	Total/NA
Pyrene	66		50		ug/Kg	10		8270C SIM	Total/NA

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	440		250		ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	600		250		ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	910		250		ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	490		250		ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	340		250		ug/Kg	50		8270C SIM	Total/NA
Chrysene	540		250		ug/Kg	50		8270C SIM	Total/NA
Fluoranthene	640		250		ug/Kg	50		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	390		250		ug/Kg	50		8270C SIM	Total/NA
Pyrene	650		250		ug/Kg	50		8270C SIM	Total/NA

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	110		99		ug/Kg	20		8270C SIM	Total/NA

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Method: 8270C SIM - PAHs by GCMS (SIM)

Client Sample ID: 2W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Acenaphthylene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Anthracene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Benzo[a]anthracene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Benzo[a]pyrene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Benzo[b]fluoranthene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Benzo[g,h,i]perylene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Benzo[k]fluoranthene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Chrysene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Dibenz(a,h)anthracene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Fluoranthene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Fluorene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Indeno[1,2,3-cd]pyrene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Naphthalene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Phenanthrene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Pyrene	ND		100		ug/Kg		08/23/11 16:20	08/24/11 13:19	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120				08/23/11 16:20	08/24/11 13:19	20
Terphenyl-d14	78		35 - 146				08/23/11 16:20	08/24/11 13:19	20

Client Sample ID: 5R-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Acenaphthylene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Anthracene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Benzo[a]anthracene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Benzo[a]pyrene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Benzo[b]fluoranthene	110		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Benzo[g,h,i]perylene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Benzo[k]fluoranthene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Chrysene	67		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Dibenz(a,h)anthracene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Fluoranthene	60		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Fluorene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Indeno[1,2,3-cd]pyrene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Naphthalene	ND		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Phenanthrene	70		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Pyrene	66		50		ug/Kg		08/23/11 16:20	08/24/11 13:42	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	59		33 - 120				08/23/11 16:20	08/24/11 13:42	10
Terphenyl-d14	77		35 - 146				08/23/11 16:20	08/24/11 13:42	10

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Method: 8270C SIM - PAHs by GCMS (SIM)

Client Sample ID: 5E-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Acenaphthylene	ND		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Anthracene	ND		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Benzo[a]anthracene	440		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Benzo[a]pyrene	600		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Benzo[b]fluoranthene	910		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Benzo[g,h,i]perylene	490		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Benzo[k]fluoranthene	340		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Chrysene	540		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Dibenz(a,h)anthracene	ND		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Fluoranthene	640		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Fluorene	ND		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Indeno[1,2,3-cd]pyrene	390		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Naphthalene	ND		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Phenanthrene	ND		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Pyrene	650		250		ug/Kg		08/23/11 16:20	08/24/11 12:32	50
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	57		33 - 120				08/23/11 16:20	08/24/11 12:32	50
Terphenyl-d14	70		35 - 146				08/23/11 16:20	08/24/11 12:32	50

Client Sample ID: 5W-R
Date Collected: 08/16/11 14:30
Date Received: 08/16/11 17:05

Lab Sample ID: 720-36961-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Acenaphthylene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Anthracene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Benzo[a]anthracene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Benzo[a]pyrene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Benzo[b]fluoranthene	110		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Benzo[g,h,i]perylene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Benzo[k]fluoranthene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Chrysene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Dibenz(a,h)anthracene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Fluoranthene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Fluorene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Indeno[1,2,3-cd]pyrene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Naphthalene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Phenanthrene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Pyrene	ND		99		ug/Kg		08/23/11 16:20	08/24/11 12:55	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		33 - 120				08/23/11 16:20	08/24/11 12:55	20
Terphenyl-d14	71		35 - 146				08/23/11 16:20	08/24/11 12:55	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-97783/1-A

Matrix: Solid

Analysis Batch: 97835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Acenaphthylene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Anthracene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Benzo[a]anthracene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Benzo[a]pyrene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Chrysene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Fluoranthene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Fluorene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Naphthalene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Phenanthrene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1
Pyrene	ND		5.0		ug/Kg		08/23/11 16:20	08/24/11 11:45	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		33 - 120	08/23/11 16:20	08/24/11 11:45	1
Terphenyl-d14	104		35 - 146	08/23/11 16:20	08/24/11 11:45	1

Lab Sample ID: LCS 720-97783/2-A

Matrix: Solid

Analysis Batch: 97835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	333	268		ug/Kg		81	49 - 120
Acenaphthylene	333	268		ug/Kg		80	52 - 120
Anthracene	333	276		ug/Kg		83	52 - 120
Benzo[a]anthracene	333	268		ug/Kg		80	52 - 120
Benzo[a]pyrene	333	289		ug/Kg		87	54 - 120
Benzo[b]fluoranthene	333	291		ug/Kg		87	51 - 120
Benzo[g,h,i]perylene	333	287		ug/Kg		86	48 - 120
Benzo[k]fluoranthene	333	257		ug/Kg		77	56 - 120
Chrysene	333	176		ug/Kg		53	40 - 120
Dibenz(a,h)anthracene	333	322		ug/Kg		97	50 - 120
Fluoranthene	333	285		ug/Kg		86	57 - 120
Fluorene	333	274		ug/Kg		82	52 - 120
Indeno[1,2,3-cd]pyrene	333	306		ug/Kg		92	48 - 120
Naphthalene	333	256		ug/Kg		77	46 - 120
Phenanthrene	333	288		ug/Kg		87	48 - 120
Pyrene	333	280		ug/Kg		84	53 - 120

Surrogate	LCS % Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		33 - 120
Terphenyl-d14	94		35 - 146

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-97783/3-A

Matrix: Solid

Analysis Batch: 97835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Acenaphthene	333	261		ug/Kg		78	49 - 120	3	20	
Acenaphthylene	333	265		ug/Kg		79	52 - 120	1	20	
Anthracene	333	273		ug/Kg		82	52 - 120	1	20	
Benzo[a]anthracene	333	258		ug/Kg		77	52 - 120	4	20	
Benzo[a]pyrene	333	283		ug/Kg		85	54 - 120	2	20	
Benzo[b]fluoranthene	333	301		ug/Kg		90	51 - 120	3	20	
Benzo[g,h,i]perylene	333	277		ug/Kg		83	48 - 120	3	20	
Benzo[k]fluoranthene	333	245		ug/Kg		74	56 - 120	5	20	
Chrysene	333	172		ug/Kg		52	40 - 120	2	20	
Dibenz(a,h)anthracene	333	316		ug/Kg		95	50 - 120	2	20	
Fluoranthene	333	280		ug/Kg		84	57 - 120	2	20	
Fluorene	333	260		ug/Kg		78	52 - 120	5	20	
Indeno[1,2,3-cd]pyrene	333	300		ug/Kg		90	48 - 120	2	20	
Naphthalene	333	258		ug/Kg		77	46 - 120	1	20	
Phenanthrene	333	286		ug/Kg		86	48 - 120	1	20	
Pyrene	333	270		ug/Kg		81	53 - 120	3	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
2-Fluorobiphenyl	75		33 - 120
Terphenyl-d14	91		35 - 146

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

GC/MS Semi VOA

Prep Batch: 97783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-97783/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-97783/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-97783/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
720-36961-5	2W-R	Total/NA	Solid	3546	
720-36961-6	5R-R	Total/NA	Solid	3546	
720-36961-7	5E-R	Total/NA	Solid	3546	
720-36961-9	5W-R	Total/NA	Solid	3546	

Analysis Batch: 97835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-97783/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	97783
LCSD 720-97783/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	97783
MB 720-97783/1-A	Method Blank	Total/NA	Solid	8270C SIM	97783
720-36961-7	5E-R	Total/NA	Solid	8270C SIM	97783
720-36961-9	5W-R	Total/NA	Solid	8270C SIM	97783
720-36961-5	2W-R	Total/NA	Solid	8270C SIM	97783
720-36961-6	5R-R	Total/NA	Solid	8270C SIM	97783



Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Client Sample ID: 2W-R

Lab Sample ID: 720-36961-5

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3546			97783	08/23/11 16:20	MP	TAL SF
Total/NA	Analysis	8270C SIM		20	97835	08/24/11 13:19	ML	TAL SF

Client Sample ID: 5R-R

Lab Sample ID: 720-36961-6

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3546			97783	08/23/11 16:20	MP	TAL SF
Total/NA	Analysis	8270C SIM		10	97835	08/24/11 13:42	ML	TAL SF

Client Sample ID: 5E-R

Lab Sample ID: 720-36961-7

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3546			97783	08/23/11 16:20	MP	TAL SF
Total/NA	Analysis	8270C SIM		50	97835	08/24/11 12:32	ML	TAL SF

Client Sample ID: 5W-R

Lab Sample ID: 720-36961-9

Date Collected: 08/16/11 14:30

Matrix: Solid

Date Received: 08/16/11 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3546			97783	08/23/11 16:20	MP	TAL SF
Total/NA	Analysis	8270C SIM		20	97835	08/24/11 12:55	ML	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36961-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36961-5	2W-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-6	5R-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-7	5E-R	Solid	08/16/11 14:30	08/16/11 17:05
720-36961-9	5W-R	Solid	08/16/11 14:30	08/16/11 17:05

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- 14

720-36961-4

Sharma, Dimple

From: Jeff Adams [jaa@engeo.com]
Sent: Tuesday, August 23, 2011 11:21 AM
To: Sharma, Dimple
Subject: RE: Files from 720-36961-1 Macedo Remediation

Dimple --

I have one more sample request. Can you run samples 2S-R, 2W-R, 5R-R, 5E-R, 5S-R, AND 5W-R for PAHs (SIM method), 24-hour TAT?

Thank you,
 Jeff

From: Jeff Adams
Sent: Thursday, August 18, 2011 5:08 PM
To: 'dimple.sharma@testamericainc.com'
Cc: Scott Johns; Morgan Johnson; Shawn Munger
Subject: RE: Files from 720-36961-1 Macedo Remediation
Importance: High



Dimple --

Thank you for forwarding the report.

Please note we did not ask for TPH-mo to be analyzed and reported -- only TPH-d and VOCs. Can you re-issue report omitting the TPH-mo?

Also, can you run samples 2S-R, 2W-R, 5R-R, 5E-R, 5S-R, AND 5W-R for TPH-diesel (8015) w/ silica gel cleanup on a 24-hour turnaround? Further, please run samples 2S-R and 5S-R for soluble TPH-diesel w/ silica gel using STLC-WET procedure with de-ionized water as the extractant. Please do this on a 72-hr turnaround.

Thank you,
 Jeff

Please re-run samples

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Thursday, August 18, 2011 3:51 PM
To: Jeff Adams
Subject: Files from 720-36961-1 Macedo Remediation

DIMPLE SHARMA

8/23/2011

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36961-4

Login Number: 36961

List Source: TestAmerica San Francisco

List Number: 1

Creator: Hoang, Julie

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SEE NCM
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36299-1
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, California 95366-9502

Attn: Mr. Richard Gandolfo



Authorized for release by:
07/21/2011 03:52:13 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Job ID: 720-36299-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36299-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample 720-36299-9. The sample shows evidence of matrix interference; confirmed by re-analysis.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: Capic acid surrogate recovery for the following sample(s) was outside control limits: SP2-A,B,C,D (720-36299-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-36240-14 MS), (720-36240-14 MSD), #2 WEST (720-36240-14), SP5-A,B,C,D (720-36299-9).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Client Sample ID: #3 BASE (S)

Lab Sample ID: 720-36299-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100		46		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C5-C12	270		230		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	4.5		1.0		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: #3 BASE (N)

Lab Sample ID: 720-36299-2

No Detections.

Client Sample ID: #3 EAST (N)

Lab Sample ID: 720-36299-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		48		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	5.2		0.99		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: #3 EAST (S)

Lab Sample ID: 720-36299-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170		50		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	9.4		0.99		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: SP5-A,B,C,D

Lab Sample ID: 720-36299-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	450		9.9		mg/Kg	10		8015B	Silica Gel Clear

Client Sample ID: SP2-A,B,C,D

Lab Sample ID: 720-36299-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	6.0		4.9		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	130		2.0		mg/Kg	2		8015B	Silica Gel Clear

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: #3 BASE (S)

Lab Sample ID: 720-36299-1

Date Collected: 07/14/11 09:00

Matrix: Solid

Date Received: 07/14/11 15:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Acetone	100		46		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Benzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Dichlorobromomethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Bromobenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Chlorobromomethane	ND		18		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Bromoform	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Bromomethane	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
2-Butanone (MEK)	ND		46		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
n-Butylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
sec-Butylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
tert-Butylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Carbon disulfide	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Carbon tetrachloride	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Chlorobenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Chloroethane	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Chloroform	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Chloromethane	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
2-Chlorotoluene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
4-Chlorotoluene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Chlorodibromomethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,3-Dichloropropane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,1-Dichloropropene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Ethylene Dibromide	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Dibromomethane	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,1-Dichloroethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2-Dichloroethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,1-Dichloroethene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2-Dichloropropane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Ethylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Hexachlorobutadiene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
2-Hexanone	ND		46		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Isopropylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
4-Isopropyltoluene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Methylene Chloride	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Naphthalene	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
N-Propylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Styrene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #3 BASE (S)
Date Collected: 07/14/11 09:00
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Tetrachloroethene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Toluene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Trichloroethene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Trichlorofluoromethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Vinyl acetate	ND		46		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Vinyl chloride	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Xylenes, Total	ND		9.2		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
2,2-Dichloropropane	ND		4.6		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
Gasoline Range Organics (GRO)	270		230		ug/Kg		07/20/11 15:50	07/21/11 00:55	1
-C5-C12									

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131	07/20/11 15:50	07/21/11 00:55	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 140	07/20/11 15:50	07/21/11 00:55	1
Toluene-d8 (Surr)	96		58 - 140	07/20/11 15:50	07/21/11 00:55	1

Client Sample ID: #3 BASE (N)
Date Collected: 07/14/11 10:48
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Acetone	ND		46		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Benzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Dichlorobromomethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Bromobenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Chlorobromomethane	ND		18		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Bromoform	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Bromomethane	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
2-Butanone (MEK)	ND		46		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
n-Butylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
sec-Butylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
tert-Butylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Carbon disulfide	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Carbon tetrachloride	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Chlorobenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Chloroethane	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Chloroform	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Chloromethane	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
2-Chlorotoluene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
4-Chlorotoluene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #3 BASE (N)
Date Collected: 07/14/11 10:48
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,3-Dichloropropane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1-Dichloropropene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Ethylene Dibromide	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Dibromomethane	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1-Dichloroethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2-Dichloroethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1-Dichloroethene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2-Dichloropropane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Ethylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Hexachlorobutadiene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
2-Hexanone	ND		46		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Isopropylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
4-Isopropyltoluene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Methylene Chloride	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Naphthalene	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
N-Propylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Styrene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Tetrachloroethene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Toluene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Trichloroethene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Trichlorofluoromethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Vinyl acetate	ND		46		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Vinyl chloride	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Xylenes, Total	ND		9.2		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
2,2-Dichloropropane	ND		4.6		ug/Kg		07/19/11 08:30	07/19/11 16:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		07/19/11 08:30	07/19/11 16:55	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	07/19/11 08:30	07/19/11 16:55	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140	07/19/11 08:30	07/19/11 16:55	1
Toluene-d8 (Surr)	96		58 - 140	07/19/11 08:30	07/19/11 16:55	1

Client Sample ID: #3 EAST (N)
Date Collected: 07/14/11 08:45
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Acetone	150		48		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Benzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Bromobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Chlorobromomethane	ND		19		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Bromoform	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Bromomethane	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
2-Butanone (MEK)	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
n-Butylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Carbon disulfide	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Chlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Chloroethane	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Chloroform	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Chloromethane	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Dibromomethane	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Ethylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
2-Hexanone	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Isopropylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Methylene Chloride	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #3 EAST (N)
Date Collected: 07/14/11 08:45
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Naphthalene	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
N-Propylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Styrene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Tetrachloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Toluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Trichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Vinyl acetate	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Vinyl chloride	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Xylenes, Total	ND		9.5		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/21/11 08:00	07/21/11 14:28	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131				07/21/11 08:00	07/21/11 14:28	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140				07/21/11 08:00	07/21/11 14:28	1
Toluene-d8 (Surr)	95		58 - 140				07/21/11 08:00	07/21/11 14:28	1

Client Sample ID: #3 EAST (S)
Date Collected: 07/14/11 08:45
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Acetone	170		50		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Benzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Bromobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Chlorobromomethane	ND		20		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Bromoform	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Bromomethane	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
2-Butanone (MEK)	ND		50		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
n-Butylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Carbon disulfide	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Chlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #3 EAST (S)
Date Collected: 07/14/11 08:45
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Chloroform	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Chloromethane	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Dibromomethane	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Ethylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
2-Hexanone	ND		50		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Isopropylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Methylene Chloride	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Naphthalene	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
N-Propylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Styrene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Tetrachloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Toluene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Trichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Vinyl acetate	ND		50		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Vinyl chloride	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #3 EAST (S)
Date Collected: 07/14/11 08:45
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		9.9		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/20/11 15:50	07/21/11 01:57	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	88		45 - 131				07/20/11 15:50	07/21/11 01:57	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 140				07/20/11 15:50	07/21/11 01:57	1
Toluene-d8 (Surr)	95		58 - 140				07/20/11 15:50	07/21/11 01:57	1

Client Sample ID: SP5-A,B,C,D
Date Collected: 07/14/11 13:00
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Acetone	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Benzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Bromobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Chlorobromomethane	ND		19		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Bromoform	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Bromomethane	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
2-Butanone (MEK)	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
n-Butylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Carbon disulfide	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Chlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Chloroethane	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Chloroform	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Chloromethane	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Dibromomethane	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP5-A,B,C,D
Date Collected: 07/14/11 13:00
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Ethylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
2-Hexanone	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Isopropylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Methylene Chloride	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Naphthalene	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
N-Propylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Styrene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Tetrachloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Toluene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Trichloroethene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Vinyl acetate	ND		48		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Vinyl chloride	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Xylenes, Total	ND		9.6		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/21/11 08:00	07/21/11 14:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/21/11 08:00	07/21/11 14:59	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131	07/21/11 08:00	07/21/11 14:59	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140	07/21/11 08:00	07/21/11 14:59	1
Toluene-d8 (Surr)	89		58 - 140	07/21/11 08:00	07/21/11 14:59	1

Client Sample ID: SP2-A,B,C,D
Date Collected: 07/14/11 13:15
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Acetone	ND		49		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Benzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Dichlorobromomethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Bromobenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Chlorobromomethane	ND		19		ug/Kg		07/20/11 15:50	07/21/11 02:59	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP2-A,B,C,D
Date Collected: 07/14/11 13:15
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Bromomethane	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
2-Butanone (MEK)	ND		49		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
n-Butylbenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
sec-Butylbenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
tert-Butylbenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Carbon disulfide	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Carbon tetrachloride	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Chlorobenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Chloroethane	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Chloroform	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Chloromethane	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
2-Chlorotoluene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
4-Chlorotoluene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Chlorodibromomethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,3-Dichloropropane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,1-Dichloropropene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Ethylene Dibromide	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Dibromomethane	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,1-Dichloroethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2-Dichloroethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,1-Dichloroethene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2-Dichloropropane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Ethylbenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Hexachlorobutadiene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
2-Hexanone	ND		49		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Isopropylbenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
4-Isopropyltoluene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Methylene Chloride	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Naphthalene	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
N-Propylbenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Styrene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Tetrachloroethene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Toluene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP2-A,B,C,D
Date Collected: 07/14/11 13:15
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Trichloroethene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Trichlorofluoromethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,2,4-Trimethylbenzene	6.0		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Vinyl acetate	ND		49		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Vinyl chloride	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Xylenes, Total	ND		9.7		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
2,2-Dichloropropane	ND		4.9		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/20/11 15:50	07/21/11 02:59	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131				07/20/11 15:50	07/21/11 02:59	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140				07/20/11 15:50	07/21/11 02:59	1
Toluene-d8 (Surr)	94		58 - 140				07/20/11 15:50	07/21/11 02:59	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: #3 BASE (S)
Date Collected: 07/14/11 09:00
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.5		1.0		mg/Kg		07/18/11 08:55	07/19/11 19:46	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	2		0 - 5				07/18/11 08:55	07/19/11 19:46	1
p-Terphenyl	90		50 - 150				07/18/11 08:55	07/19/11 19:46	1

Client Sample ID: #3 BASE (N)
Date Collected: 07/14/11 10:48
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/18/11 08:55	07/19/11 18:57	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5				07/18/11 08:55	07/19/11 18:57	1
p-Terphenyl	100		50 - 150				07/18/11 08:55	07/19/11 18:57	1

Client Sample ID: #3 EAST (N)
Date Collected: 07/14/11 08:45
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5.2		0.99		mg/Kg		07/18/11 08:55	07/19/11 19:22	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.4		0 - 5				07/18/11 08:55	07/19/11 19:22	1
p-Terphenyl	95		50 - 150				07/18/11 08:55	07/19/11 19:22	1

Client Sample ID: #3 EAST (S)
Date Collected: 07/14/11 08:45
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.4		0.99		mg/Kg		07/18/11 08:55	07/19/11 19:46	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 5				07/18/11 08:55	07/19/11 19:46	1
p-Terphenyl	100		50 - 150				07/18/11 08:55	07/19/11 19:46	1

Client Sample ID: SP5-A,B,C,D
Date Collected: 07/14/11 13:00
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	450		9.9		mg/Kg		07/18/11 08:55	07/19/11 16:32	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/18/11 08:55	07/19/11 16:32	10
p-Terphenyl	0	D	50 - 150				07/18/11 08:55	07/19/11 16:32	10

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: SP2-A,B,C,D
Date Collected: 07/14/11 13:15
Date Received: 07/14/11 15:26

Lab Sample ID: 720-36299-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		2.0		mg/Kg		07/18/11 08:55	07/19/11 16:08	2
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	18	X	0 - 5				07/18/11 08:55	07/19/11 16:08	2
p-Terphenyl	60		50 - 150				07/18/11 08:55	07/19/11 16:08	2

- 1
- 2
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- 12
- 13
- 14

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-95527/1-A
Matrix: Solid
Analysis Batch: 95458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95527

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Acetone	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Benzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Bromobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chlorobromomethane	ND		20		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Bromoform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Bromomethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2-Butanone (MEK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
n-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Carbon disulfide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chloroethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chloroform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chloromethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Dibromomethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Ethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2-Hexanone	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Isopropylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Methylene Chloride	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Naphthalene	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
N-Propylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Styrene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95527/1-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95527

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Tetrachloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Toluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Trichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Vinyl acetate	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Vinyl chloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
o-Xylene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Xylenes, Total	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/19/11 08:30	07/19/11 10:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	96		45 - 131	07/19/11 08:30	07/19/11 10:48	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 140	07/19/11 08:30	07/19/11 10:48	1
Toluene-d8 (Surr)	97		58 - 140	07/19/11 08:30	07/19/11 10:48	1

Lab Sample ID: LCS 720-95527/2-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	71 - 144	
Acetone	250	251		ug/Kg		101	30 - 162	
Benzene	50.0	47.8		ug/Kg		96	82 - 124	
Dichlorobromomethane	50.0	51.6		ug/Kg		103	86 - 131	
Bromobenzene	50.0	49.4		ug/Kg		99	88 - 120	
Chlorobromomethane	50.0	49.4		ug/Kg		99	81 - 116	
Bromoform	50.0	53.6		ug/Kg		107	59 - 158	
Bromomethane	50.0	46.2		ug/Kg		92	59 - 132	
2-Butanone (MEK)	250	256		ug/Kg		102	61 - 150	
n-Butylbenzene	50.0	51.4		ug/Kg		103	80 - 142	
sec-Butylbenzene	50.0	50.0		ug/Kg		100	85 - 136	
tert-Butylbenzene	50.0	51.4		ug/Kg		103	71 - 130	
Carbon disulfide	50.0	50.6		ug/Kg		101	60 - 136	
Carbon tetrachloride	50.0	50.8		ug/Kg		102	81 - 138	
Chlorobenzene	50.0	47.8		ug/Kg		96	87 - 113	
Chloroethane	50.0	46.8		ug/Kg		94	69 - 141	
Chloroform	50.0	47.6		ug/Kg		95	77 - 127	
Chloromethane	50.0	44.2		ug/Kg		88	60 - 149	

QC Sample Results

Client: Engeo, Inc.
 Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95527/2-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec. Limits
	Added	Result	Qualifier				
2-Chlorotoluene	50.0	48.4		ug/Kg		97	80 - 138
4-Chlorotoluene	50.0	48.8		ug/Kg		98	79 - 136
Chlorodibromomethane	50.0	54.8		ug/Kg		110	75 - 146
1,2-Dichlorobenzene	50.0	47.4		ug/Kg		95	84 - 130
1,3-Dichlorobenzene	50.0	48.2		ug/Kg		96	84 - 131
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	85 - 125
1,3-Dichloropropane	50.0	49.2		ug/Kg		98	79 - 140
1,1-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/Kg		98	68 - 145
Ethylene Dibromide	50.0	51.6		ug/Kg		103	79 - 140
Dibromomethane	50.0	49.4		ug/Kg		99	80 - 139
Dichlorodifluoromethane	50.0	43.4		ug/Kg		87	37 - 158
1,1-Dichloroethane	50.0	47.6		ug/Kg		95	85 - 124
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	72 - 130
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	76 - 122
cis-1,2-Dichloroethene	50.0	47.0		ug/Kg		94	87 - 138
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	67 - 108
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	54.0		ug/Kg		108	68 - 147
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	84 - 136
Ethylbenzene	50.0	48.8		ug/Kg		98	80 - 137
Hexachlorobutadiene	50.0	48.0		ug/Kg		96	72 - 132
2-Hexanone	250	264		ug/Kg		106	60 - 161
Isopropylbenzene	50.0	51.0		ug/Kg		102	88 - 128
4-Isopropyltoluene	50.0	49.2		ug/Kg		98	85 - 133
Methylene Chloride	50.0	48.2		ug/Kg		96	72 - 134
4-Methyl-2-pentanone (MIBK)	250	258		ug/Kg		103	69 - 160
Naphthalene	50.0	51.0		ug/Kg		102	70 - 147
N-Propylbenzene	50.0	50.2		ug/Kg		100	72 - 125
Styrene	50.0	54.2		ug/Kg		108	89 - 126
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	90 - 130
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	82 - 146
Tetrachloroethene	50.0	51.4		ug/Kg		103	78 - 132
Toluene	50.0	48.2		ug/Kg		96	83 - 128
1,2,3-Trichlorobenzene	50.0	49.6		ug/Kg		99	82 - 135
1,2,4-Trichlorobenzene	50.0	51.0		ug/Kg		102	70 - 131
1,1,1-Trichloroethane	50.0	49.6		ug/Kg		99	80 - 127
1,1,2-Trichloroethane	50.0	51.0		ug/Kg		102	82 - 125
Trichloroethene	50.0	49.8		ug/Kg		100	81 - 133
Trichlorofluoromethane	50.0	48.2		ug/Kg		96	71 - 139
1,2,3-Trichloropropane	50.0	48.0		ug/Kg		96	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	70 - 130
1,2,4-Trimethylbenzene	50.0	51.6		ug/Kg		103	84 - 130
1,3,5-Trimethylbenzene	50.0	51.8		ug/Kg		104	82 - 131
Vinyl acetate	50.0	53.4		ug/Kg		107	38 - 176
Vinyl chloride	50.0	45.6		ug/Kg		91	63 - 140
m-Xylene & p-Xylene	100	98.6		ug/Kg		99	79 - 146
o-Xylene	50.0	48.6		ug/Kg		97	84 - 140
2,2-Dichloropropane	50.0	51.2		ug/Kg		102	73 - 162

QC Sample Results

Client: Engeo, Inc.
 Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95527/2-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95527

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Lab Sample ID: LCS 720-95527/4-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO) -C5-C12	1000	1010		ug/Kg		101	61 - 128	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Lab Sample ID: LCSD 720-95527/3-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Methyl tert-butyl ether	50.0	55.4		ug/Kg		111	71 - 144	12	20	
Acetone	250	261		ug/Kg		104	30 - 162	4	30	
Benzene	50.0	49.4		ug/Kg		99	82 - 124	3	20	
Dichlorobromomethane	50.0	55.0		ug/Kg		110	86 - 131	6	20	
Bromobenzene	50.0	52.2		ug/Kg		104	88 - 120	6	20	
Chlorobromomethane	50.0	54.0		ug/Kg		108	81 - 116	9	20	
Bromoform	50.0	58.0		ug/Kg		116	59 - 158	8	20	
Bromomethane	50.0	48.0		ug/Kg		96	59 - 132	4	20	
2-Butanone (MEK)	250	276		ug/Kg		110	61 - 150	7	20	
n-Butylbenzene	50.0	52.0		ug/Kg		104	80 - 142	1	20	
sec-Butylbenzene	50.0	49.8		ug/Kg		100	85 - 136	0	20	
tert-Butylbenzene	50.0	51.4		ug/Kg		103	71 - 130	0	20	
Carbon disulfide	50.0	51.4		ug/Kg		103	60 - 136	2	20	
Carbon tetrachloride	50.0	51.0		ug/Kg		102	81 - 138	0	20	
Chlorobenzene	50.0	49.4		ug/Kg		99	87 - 113	3	20	
Chloroethane	50.0	47.6		ug/Kg		95	69 - 141	2	20	
Chloroform	50.0	50.2		ug/Kg		100	77 - 127	5	20	
Chloromethane	50.0	45.8		ug/Kg		92	60 - 149	4	20	
2-Chlorotoluene	50.0	49.4		ug/Kg		99	80 - 138	2	20	
4-Chlorotoluene	50.0	49.6		ug/Kg		99	79 - 136	2	20	
Chlorodibromomethane	50.0	59.4		ug/Kg		119	75 - 146	8	20	
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	84 - 130	5	20	
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	84 - 131	3	20	
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	85 - 125	3	20	
1,3-Dichloropropane	50.0	53.0		ug/Kg		106	79 - 140	7	20	
1,1-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 130	0	20	
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/Kg		106	68 - 145	8	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS D 720-95527/3-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	50.0	55.6		ug/Kg		111	79 - 140	7	20
Dibromomethane	50.0	53.4		ug/Kg		107	80 - 139	8	20
Dichlorodifluoromethane	50.0	42.2		ug/Kg		84	37 - 158	3	20
1,1-Dichloroethane	50.0	49.4		ug/Kg		99	85 - 124	4	20
1,2-Dichloroethane	50.0	51.4		ug/Kg		103	72 - 130	8	20
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	76 - 122	0	20
cis-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	87 - 138	5	20
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	67 - 108	3	20
1,2-Dichloropropane	50.0	51.2		ug/Kg		102	73 - 127	5	20
cis-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	68 - 147	6	20
trans-1,3-Dichloropropene	50.0	59.4		ug/Kg		119	84 - 136	7	20
Ethylbenzene	50.0	49.4		ug/Kg		99	80 - 137	1	20
Hexachlorobutadiene	50.0	50.6		ug/Kg		101	72 - 132	5	20
2-Hexanone	250	291		ug/Kg		116	60 - 161	10	20
Isopropylbenzene	50.0	51.6		ug/Kg		103	88 - 128	1	20
4-Isopropyltoluene	50.0	49.4		ug/Kg		99	85 - 133	0	20
Methylene Chloride	50.0	51.6		ug/Kg		103	72 - 134	7	20
4-Methyl-2-pentanone (MIBK)	250	282		ug/Kg		113	69 - 160	9	20
Naphthalene	50.0	56.0		ug/Kg		112	70 - 147	9	20
N-Propylbenzene	50.0	50.6		ug/Kg		101	72 - 125	1	20
Styrene	50.0	56.2		ug/Kg		112	89 - 126	4	20
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	90 - 130	4	20
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	82 - 146	7	20
Tetrachloroethene	50.0	51.4		ug/Kg		103	78 - 132	0	20
Toluene	50.0	48.4		ug/Kg		97	83 - 128	0	20
1,2,3-Trichlorobenzene	50.0	53.4		ug/Kg		107	82 - 135	7	20
1,2,4-Trichlorobenzene	50.0	54.0		ug/Kg		108	70 - 131	6	20
1,1,1-Trichloroethane	50.0	49.8		ug/Kg		100	80 - 127	0	20
1,1,2-Trichloroethane	50.0	55.0		ug/Kg		110	82 - 125	8	20
Trichloroethene	50.0	50.6		ug/Kg		101	81 - 133	2	20
Trichlorofluoromethane	50.0	46.6		ug/Kg		93	71 - 139	3	20
1,2,3-Trichloropropane	50.0	51.4		ug/Kg		103	76 - 146	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	70 - 130	0	20
1,2,4-Trimethylbenzene	50.0	52.6		ug/Kg		105	84 - 130	2	20
1,3,5-Trimethylbenzene	50.0	52.0		ug/Kg		104	82 - 131	0	20
Vinyl acetate	50.0	56.8		ug/Kg		114	38 - 176	6	20
Vinyl chloride	50.0	46.4		ug/Kg		93	63 - 140	2	20
m-Xylene & p-Xylene	100	99.4		ug/Kg		99	79 - 146	1	20
o-Xylene	50.0	50.2		ug/Kg		100	84 - 140	3	20
2,2-Dichloropropane	50.0	51.8		ug/Kg		104	73 - 162	1	20

Surrogate	LCSD LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	100		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95527/5-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCSD	LCSD	Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	868		ug/Kg		87	61 - 128	15		20

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Lab Sample ID: 720-36299-2 MS

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: #3 BASE (N)

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Methyl tert-butyl ether	ND		48.6	55.1		ug/Kg		113	69 - 130	
Acetone	ND		243	213		ug/Kg		88	37 - 150	
Benzene	ND		48.6	50.0		ug/Kg		103	70 - 130	
Dichlorobromomethane	ND		48.6	53.5		ug/Kg		110	64 - 135	
Bromobenzene	ND		48.6	51.2		ug/Kg		105	70 - 130	
Chlorobromomethane	ND		48.6	53.1		ug/Kg		109	65 - 130	
Bromoform	ND		48.6	53.9		ug/Kg		111	58 - 132	
Bromomethane	ND		48.6	37.5		ug/Kg		77	56 - 130	
2-Butanone (MEK)	ND		243	246		ug/Kg		101	41 - 150	
n-Butylbenzene	ND		48.6	50.8		ug/Kg		104	60 - 145	
sec-Butylbenzene	ND		48.6	48.8		ug/Kg		100	64 - 137	
tert-Butylbenzene	ND		48.6	50.8		ug/Kg		104	63 - 134	
Carbon disulfide	ND		48.6	51.8		ug/Kg		106	10 - 150	
Carbon tetrachloride	ND		48.6	46.7		ug/Kg		96	54 - 130	
Chlorobenzene	ND		48.6	48.4		ug/Kg		100	70 - 130	
Chloroethane	ND		48.6	37.7		ug/Kg		78	61 - 130	
Chloroform	ND		48.6	48.1		ug/Kg		99	67 - 130	
Chloromethane	ND		48.6	32.9		ug/Kg		68	50 - 131	
2-Chlorotoluene	ND		48.6	50.0		ug/Kg		103	70 - 130	
4-Chlorotoluene	ND		48.6	48.8		ug/Kg		100	70 - 130	
Chlorodibromomethane	ND		48.6	56.8		ug/Kg		117	60 - 141	
1,2-Dichlorobenzene	ND		48.6	49.0		ug/Kg		101	70 - 130	
1,3-Dichlorobenzene	ND		48.6	48.6		ug/Kg		100	70 - 130	
1,4-Dichlorobenzene	ND		48.6	48.4		ug/Kg		100	70 - 130	
1,3-Dichloropropane	ND		48.6	52.5		ug/Kg		108	70 - 130	
1,1-Dichloropropene	ND		48.6	49.0		ug/Kg		101	67 - 130	
1,2-Dibromo-3-Chloropropane	ND		48.6	50.6		ug/Kg		104	57 - 130	
Ethylene Dibromide	ND		48.6	55.4		ug/Kg		114	66 - 135	
Dibromomethane	ND		48.6	51.8		ug/Kg		106	65 - 131	
Dichlorodifluoromethane	ND		48.6	24.1		ug/Kg		50	38 - 130	
1,1-Dichloroethane	ND		48.6	48.4		ug/Kg		100	67 - 130	
1,2-Dichloroethane	ND		48.6	48.4		ug/Kg		100	70 - 130	
1,1-Dichloroethene	ND		48.6	47.7		ug/Kg		98	64 - 130	
cis-1,2-Dichloroethene	ND		48.6	56.2		ug/Kg		116	68 - 131	
trans-1,2-Dichloroethene	ND		48.6	43.4		ug/Kg		89	70 - 130	
1,2-Dichloropropane	ND		48.6	50.2		ug/Kg		103	65 - 133	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36299-2 MS

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: #3 BASE (N)

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Sample	Sample	Spike	MS MS		Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
cis-1,3-Dichloropropene	ND		48.6	54.3		ug/Kg		112	46 - 139	
trans-1,3-Dichloropropene	ND		48.6	56.4		ug/Kg		116	55 - 131	
Ethylbenzene	ND		48.6	48.8		ug/Kg		100	65 - 130	
Hexachlorobutadiene	ND		48.6	45.9		ug/Kg		94	58 - 132	
2-Hexanone	ND		243	259		ug/Kg		107	44 - 150	
Isopropylbenzene	ND		48.6	51.8		ug/Kg		106	65 - 130	
4-Isopropyltoluene	ND		48.6	48.6		ug/Kg		100	69 - 134	
Methylene Chloride	ND		48.6	49.6		ug/Kg		102	63 - 130	
4-Methyl-2-pentanone (MIBK)	ND		243	265		ug/Kg		109	51 - 140	
Naphthalene	ND		48.6	55.6		ug/Kg		114	45 - 146	
N-Propylbenzene	ND		48.6	47.5		ug/Kg		98	70 - 130	
Styrene	ND		48.6	56.6		ug/Kg		116	58 - 135	
1,1,1,2-Tetrachloroethane	ND		48.6	52.9		ug/Kg		109	64 - 133	
1,1,2,2-Tetrachloroethane	ND		48.6	49.6		ug/Kg		102	70 - 131	
Tetrachloroethene	ND		48.6	49.0		ug/Kg		101	67 - 130	
Toluene	ND		48.6	49.0		ug/Kg		101	70 - 130	
1,2,3-Trichlorobenzene	ND		48.6	53.1		ug/Kg		109	58 - 138	
1,2,4-Trichlorobenzene	ND		48.6	52.1		ug/Kg		107	49 - 144	
1,1,1-Trichloroethane	ND		48.6	46.9		ug/Kg		96	57 - 133	
1,1,2-Trichloroethane	ND		48.6	53.1		ug/Kg		109	68 - 132	
Trichloroethene	ND		48.6	49.2		ug/Kg		101	66 - 130	
Trichlorofluoromethane	ND		48.6	35.2		ug/Kg		72	61 - 130	
1,2,3-Trichloropropane	ND		48.6	49.6		ug/Kg		102	62 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.6	46.3		ug/Kg		95	52 - 130	
1,2,4-Trimethylbenzene	ND		48.6	51.6		ug/Kg		106	64 - 140	
1,3,5-Trimethylbenzene	ND		48.6	52.3		ug/Kg		108	67 - 134	
Vinyl acetate	ND		48.6	ND		ug/Kg		82	52 - 150	
Vinyl chloride	ND		48.6	34.8		ug/Kg		72	62 - 130	
m-Xylene & p-Xylene	ND		97.3	99.6		ug/Kg		102	70 - 130	
o-Xylene	ND		48.6	50.6		ug/Kg		104	68 - 130	
2,2-Dichloropropane	ND		48.6	48.1		ug/Kg		99	63 - 130	

Surrogate	MS MS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	99		58 - 140

Lab Sample ID: 720-36299-2 MSD

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: #3 BASE (N)

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	% Rec	% Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Methyl tert-butyl ether	ND		48.3	52.1		ug/Kg		108	69 - 130	5	20
Acetone	ND		241	196		ug/Kg		81	37 - 150	9	20
Benzene	ND		48.3	47.9		ug/Kg		99	70 - 130	4	20
Dichlorobromomethane	ND		48.3	51.4		ug/Kg		106	64 - 135	4	20
Bromobenzene	ND		48.3	49.8		ug/Kg		103	70 - 130	3	20
Chlorobromomethane	ND		48.3	51.0		ug/Kg		106	65 - 130	4	20
Bromoform	ND		48.3	51.4		ug/Kg		106	58 - 132	5	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36299-2 MSD

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: #3 BASE (N)

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Bromomethane	ND		48.3	38.6		ug/Kg		80	56 - 130	3	20
2-Butanone (MEK)	ND		241	224		ug/Kg		93	41 - 150	9	20
n-Butylbenzene	ND		48.3	49.8		ug/Kg		103	60 - 145	2	20
sec-Butylbenzene	ND		48.3	47.9		ug/Kg		99	64 - 137	2	20
tert-Butylbenzene	ND		48.3	49.6		ug/Kg		103	63 - 134	2	20
Carbon disulfide	ND		48.3	50.0		ug/Kg		104	10 - 150	3	20
Carbon tetrachloride	ND		48.3	45.6		ug/Kg		94	54 - 130	2	20
Chlorobenzene	ND		48.3	46.7		ug/Kg		97	70 - 130	4	20
Chloroethane	ND		48.3	38.4		ug/Kg		80	61 - 130	2	20
Chloroform	ND		48.3	46.1		ug/Kg		96	67 - 130	4	20
Chloromethane	ND		48.3	33.8		ug/Kg		70	50 - 131	3	20
2-Chlorotoluene	ND		48.3	48.6		ug/Kg		101	70 - 130	3	20
4-Chlorotoluene	ND		48.3	47.7		ug/Kg		99	70 - 130	2	20
Chlorodibromomethane	ND		48.3	54.4		ug/Kg		113	60 - 141	4	20
1,2-Dichlorobenzene	ND		48.3	47.3		ug/Kg		98	70 - 130	4	20
1,3-Dichlorobenzene	ND		48.3	47.7		ug/Kg		99	70 - 130	2	20
1,4-Dichlorobenzene	ND		48.3	47.3		ug/Kg		98	70 - 130	2	20
1,3-Dichloropropane	ND		48.3	49.2		ug/Kg		102	70 - 130	6	20
1,1-Dichloropropene	ND		48.3	47.9		ug/Kg		99	67 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		48.3	46.3		ug/Kg		96	57 - 130	9	20
Ethylene Dibromide	ND		48.3	51.7		ug/Kg		107	66 - 135	7	20
Dibromomethane	ND		48.3	49.0		ug/Kg		102	65 - 131	5	20
Dichlorodifluoromethane	ND		48.3	23.9		ug/Kg		50	38 - 130	1	20
1,1-Dichloroethane	ND		48.3	46.5		ug/Kg		96	67 - 130	4	20
1,2-Dichloroethane	ND		48.3	46.3		ug/Kg		96	70 - 130	4	20
1,1-Dichloroethene	ND		48.3	46.1		ug/Kg		96	64 - 130	3	20
cis-1,2-Dichloroethene	ND		48.3	53.7		ug/Kg		111	68 - 131	5	20
trans-1,2-Dichloroethene	ND		48.3	41.3		ug/Kg		86	70 - 130	5	20
1,2-Dichloropropane	ND		48.3	48.5		ug/Kg		100	65 - 133	4	20
cis-1,3-Dichloropropene	ND		48.3	52.3		ug/Kg		108	46 - 139	4	20
trans-1,3-Dichloropropene	ND		48.3	53.5		ug/Kg		111	55 - 131	5	20
Ethylbenzene	ND		48.3	47.1		ug/Kg		98	65 - 130	4	20
Hexachlorobutadiene	ND		48.3	45.4		ug/Kg		94	58 - 132	1	20
2-Hexanone	ND		241	236		ug/Kg		98	44 - 150	10	20
Isopropylbenzene	ND		48.3	50.0		ug/Kg		104	65 - 130	3	20
4-Isopropyltoluene	ND		48.3	47.5		ug/Kg		98	69 - 134	2	20
Methylene Chloride	ND		48.3	47.3		ug/Kg		98	63 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		241	240		ug/Kg		100	51 - 140	10	20
Naphthalene	ND		48.3	53.1		ug/Kg		110	45 - 146	5	20
N-Propylbenzene	ND		48.3	46.3		ug/Kg		96	70 - 130	2	20
Styrene	ND		48.3	53.9		ug/Kg		112	58 - 135	5	20
1,1,1,2-Tetrachloroethane	ND		48.3	51.0		ug/Kg		106	64 - 133	4	20
1,1,2,2-Tetrachloroethane	ND		48.3	46.7		ug/Kg		97	70 - 131	6	20
Tetrachloroethene	ND		48.3	47.3		ug/Kg		98	67 - 130	4	20
Toluene	ND		48.3	46.9		ug/Kg		97	70 - 130	4	20
1,2,3-Trichlorobenzene	ND		48.3	52.1		ug/Kg		108	58 - 138	2	20
1,2,4-Trichlorobenzene	ND		48.3	50.8		ug/Kg		105	49 - 144	3	20
1,1,1-Trichloroethane	ND		48.3	45.9		ug/Kg		95	57 - 133	2	20
1,1,2-Trichloroethane	ND		48.3	50.2		ug/Kg		104	68 - 132	6	20
Trichloroethene	ND		48.3	47.7		ug/Kg		99	66 - 130	3	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36299-2 MSD

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: #3 BASE (N)

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Trichlorofluoromethane	ND		48.3	35.5		ug/Kg		74	61 - 130	1	20
1,2,3-Trichloropropane	ND		48.3	46.9		ug/Kg		97	62 - 150	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.3	44.6		ug/Kg		92	52 - 130	4	20
1,2,4-Trimethylbenzene	ND		48.3	50.4		ug/Kg		104	64 - 140	2	20
1,3,5-Trimethylbenzene	ND		48.3	51.2		ug/Kg		106	67 - 134	2	20
Vinyl acetate	ND		48.3	ND		ug/Kg		81	52 - 150	1	20
Vinyl chloride	ND		48.3	34.9		ug/Kg		72	62 - 130	0	20
m-Xylene & p-Xylene	ND		96.5	95.8		ug/Kg		99	70 - 130	4	20
o-Xylene	ND		48.3	48.6		ug/Kg		101	68 - 130	4	20
2,2-Dichloropropane	ND		48.3	46.9		ug/Kg		97	63 - 130	2	20
MSD MSD											
Surrogate	% Recovery	Qualifier	Limits								
4-Bromofluorobenzene	99		45 - 131								
1,2-Dichloroethane-d4 (Surr)	94		60 - 140								
Toluene-d8 (Surr)	99		58 - 140								

Lab Sample ID: MB 720-95636/1-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95636

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Acetone	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Benzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Bromobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Chlorobromomethane	ND		20		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Bromoform	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Bromomethane	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
2-Butanone (MEK)	ND		50		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
n-Butylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Carbon disulfide	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Chlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Chloroethane	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Chloroform	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Chloromethane	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95636/1-A
Matrix: Solid
Analysis Batch: 95593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95636

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dibromomethane	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Ethylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
2-Hexanone	ND		50		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Isopropylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Methylene Chloride	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Naphthalene	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
N-Propylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Styrene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Tetrachloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Toluene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Trichloroethene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Vinyl acetate	ND		50		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Vinyl chloride	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
o-Xylene	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Xylenes, Total	ND		10		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/20/11 15:50	07/20/11 17:09	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/20/11 15:50	07/20/11 17:09	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	99		45 - 131	07/20/11 15:50	07/20/11 17:09	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140	07/20/11 15:50	07/20/11 17:09	1
Toluene-d8 (Surr)	98		58 - 140	07/20/11 15:50	07/20/11 17:09	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95636/2-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95636

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec. Limits
	Added	Result	Qualifier				
Methyl tert-butyl ether	50.0	52.6		ug/Kg		105	71 - 144
Acetone	250	258		ug/Kg		103	30 - 162
Benzene	50.0	48.4		ug/Kg		97	82 - 124
Dichlorobromomethane	50.0	48.8		ug/Kg		98	86 - 131
Bromobenzene	50.0	48.2		ug/Kg		96	88 - 120
Chlorobromomethane	50.0	49.2		ug/Kg		98	81 - 116
Bromoform	50.0	47.8		ug/Kg		96	59 - 158
Bromomethane	50.0	50.4		ug/Kg		101	59 - 132
2-Butanone (MEK)	250	255		ug/Kg		102	61 - 150
n-Butylbenzene	50.0	52.6		ug/Kg		105	80 - 142
sec-Butylbenzene	50.0	49.8		ug/Kg		100	85 - 136
tert-Butylbenzene	50.0	50.0		ug/Kg		100	71 - 130
Carbon disulfide	50.0	52.0		ug/Kg		104	60 - 136
Carbon tetrachloride	50.0	47.2		ug/Kg		94	81 - 138
Chlorobenzene	50.0	48.0		ug/Kg		96	87 - 113
Chloroethane	50.0	50.2		ug/Kg		100	69 - 141
Chloroform	50.0	47.6		ug/Kg		95	77 - 127
Chloromethane	50.0	51.0		ug/Kg		102	60 - 149
2-Chlorotoluene	50.0	49.2		ug/Kg		98	80 - 138
4-Chlorotoluene	50.0	47.2		ug/Kg		94	79 - 136
Chlorodibromomethane	50.0	48.4		ug/Kg		97	75 - 146
1,2-Dichlorobenzene	50.0	48.4		ug/Kg		97	84 - 130
1,3-Dichlorobenzene	50.0	48.6		ug/Kg		97	84 - 131
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	85 - 125
1,3-Dichloropropane	50.0	48.8		ug/Kg		98	79 - 140
1,1-Dichloropropene	50.0	50.4		ug/Kg		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.2		ug/Kg		106	68 - 145
Ethylene Dibromide	50.0	50.2		ug/Kg		100	79 - 140
Dibromomethane	50.0	48.6		ug/Kg		97	80 - 139
Dichlorodifluoromethane	50.0	54.8		ug/Kg		110	37 - 158
1,1-Dichloroethane	50.0	47.6		ug/Kg		95	85 - 124
1,2-Dichloroethane	50.0	46.8		ug/Kg		94	72 - 130
1,1-Dichloroethene	50.0	51.4		ug/Kg		103	76 - 122
cis-1,2-Dichloroethene	50.0	55.8		ug/Kg		112	87 - 138
trans-1,2-Dichloroethene	50.0	43.2		ug/Kg		86	67 - 108
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	73 - 127
cis-1,3-Dichloropropene	50.0	47.6		ug/Kg		95	68 - 147
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	84 - 136
Ethylbenzene	50.0	48.0		ug/Kg		96	80 - 137
Hexachlorobutadiene	50.0	54.0		ug/Kg		108	72 - 132
2-Hexanone	250	242		ug/Kg		97	60 - 161
Isopropylbenzene	50.0	50.2		ug/Kg		100	88 - 128
4-Isopropyltoluene	50.0	50.0		ug/Kg		100	85 - 133
Methylene Chloride	50.0	49.2		ug/Kg		98	72 - 134
4-Methyl-2-pentanone (MIBK)	250	242		ug/Kg		97	69 - 160
Naphthalene	50.0	53.0		ug/Kg		106	70 - 147
N-Propylbenzene	50.0	46.8		ug/Kg		94	72 - 125
Styrene	50.0	48.2		ug/Kg		96	89 - 126
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	90 - 130

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95636/2-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/Kg		98	82 - 146	
Tetrachloroethene	50.0	50.4		ug/Kg		101	78 - 132	
Toluene	50.0	48.2		ug/Kg		96	83 - 128	
1,2,3-Trichlorobenzene	50.0	55.0		ug/Kg		110	82 - 135	
1,2,4-Trichlorobenzene	50.0	51.8		ug/Kg		104	70 - 131	
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	80 - 127	
1,1,2-Trichloroethane	50.0	47.8		ug/Kg		96	82 - 125	
Trichloroethene	50.0	49.0		ug/Kg		98	81 - 133	
Trichlorofluoromethane	50.0	54.8		ug/Kg		110	71 - 139	
1,2,3-Trichloropropane	50.0	49.6		ug/Kg		99	76 - 146	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.8		ug/Kg		102	70 - 130	
1,2,4-Trimethylbenzene	50.0	48.6		ug/Kg		97	84 - 130	
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	82 - 131	
Vinyl acetate	50.0	52.2		ug/Kg		104	38 - 176	
Vinyl chloride	50.0	50.0		ug/Kg		100	63 - 140	
m-Xylene & p-Xylene	100	93.4		ug/Kg		93	79 - 146	
o-Xylene	50.0	48.4		ug/Kg		97	84 - 140	
2,2-Dichloropropane	50.0	50.2		ug/Kg		100	73 - 162	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCS 720-95636/4-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Gasoline Range Organics (GRO) -C5-C12	1000	843		ug/Kg		84	61 - 128	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-95636/3-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		
							Limits	RPD	Limit
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	71 - 144	2	20
Acetone	250	228		ug/Kg		91	30 - 162	13	30
Benzene	50.0	47.2		ug/Kg		94	82 - 124	3	20
Dichlorobromomethane	50.0	48.0		ug/Kg		96	86 - 131	2	20
Bromobenzene	50.0	48.6		ug/Kg		97	88 - 120	1	20
Chlorobromomethane	50.0	48.4		ug/Kg		97	81 - 116	2	20
Bromoform	50.0	46.6		ug/Kg		93	59 - 158	3	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS D 720-95636/3-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	RPD Limit
							Limits	RPD		
Bromomethane	50.0	48.6		ug/Kg		97	59 - 132	4	20	
2-Butanone (MEK)	250	251		ug/Kg		100	61 - 150	2	20	
n-Butylbenzene	50.0	50.4		ug/Kg		101	80 - 142	4	20	
sec-Butylbenzene	50.0	48.0		ug/Kg		96	85 - 136	4	20	
tert-Butylbenzene	50.0	48.6		ug/Kg		97	71 - 130	3	20	
Carbon disulfide	50.0	50.0		ug/Kg		100	60 - 136	4	20	
Carbon tetrachloride	50.0	46.2		ug/Kg		92	81 - 138	2	20	
Chlorobenzene	50.0	46.6		ug/Kg		93	87 - 113	3	20	
Chloroethane	50.0	47.0		ug/Kg		94	69 - 141	7	20	
Chloroform	50.0	46.0		ug/Kg		92	77 - 127	3	20	
Chloromethane	50.0	48.2		ug/Kg		96	60 - 149	6	20	
2-Chlorotoluene	50.0	48.2		ug/Kg		96	80 - 138	2	20	
4-Chlorotoluene	50.0	46.2		ug/Kg		92	79 - 136	2	20	
Chlorodibromomethane	50.0	47.4		ug/Kg		95	75 - 146	2	20	
1,2-Dichlorobenzene	50.0	47.8		ug/Kg		96	84 - 130	1	20	
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	84 - 131	2	20	
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	85 - 125	1	20	
1,3-Dichloropropane	50.0	48.4		ug/Kg		97	79 - 140	1	20	
1,1-Dichloropropene	50.0	48.0		ug/Kg		96	70 - 130	5	20	
1,2-Dibromo-3-Chloropropane	50.0	50.0		ug/Kg		100	68 - 145	6	20	
Ethylene Dibromide	50.0	49.4		ug/Kg		99	79 - 140	2	20	
Dibromomethane	50.0	46.4		ug/Kg		93	80 - 139	5	20	
Dichlorodifluoromethane	50.0	51.6		ug/Kg		103	37 - 158	6	20	
1,1-Dichloroethane	50.0	46.0		ug/Kg		92	85 - 124	3	20	
1,2-Dichloroethane	50.0	45.6		ug/Kg		91	72 - 130	3	20	
1,1-Dichloroethene	50.0	49.8		ug/Kg		100	76 - 122	3	20	
cis-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	87 - 138	5	20	
trans-1,2-Dichloroethene	50.0	42.2		ug/Kg		84	67 - 108	2	20	
1,2-Dichloropropane	50.0	45.6		ug/Kg		91	73 - 127	4	20	
cis-1,3-Dichloropropene	50.0	46.6		ug/Kg		93	68 - 147	2	20	
trans-1,3-Dichloropropene	50.0	46.8		ug/Kg		94	84 - 136	3	20	
Ethylbenzene	50.0	46.0		ug/Kg		92	80 - 137	4	20	
Hexachlorobutadiene	50.0	52.2		ug/Kg		104	72 - 132	3	20	
2-Hexanone	250	232		ug/Kg		93	60 - 161	4	20	
Isopropylbenzene	50.0	48.4		ug/Kg		97	88 - 128	4	20	
4-Isopropyltoluene	50.0	49.0		ug/Kg		98	85 - 133	2	20	
Methylene Chloride	50.0	48.0		ug/Kg		96	72 - 134	2	20	
4-Methyl-2-pentanone (MIBK)	250	229		ug/Kg		92	69 - 160	5	20	
Naphthalene	50.0	52.2		ug/Kg		104	70 - 147	2	20	
N-Propylbenzene	50.0	45.2		ug/Kg		90	72 - 125	3	20	
Styrene	50.0	47.4		ug/Kg		95	89 - 126	2	20	
1,1,1,2-Tetrachloroethane	50.0	46.6		ug/Kg		93	90 - 130	3	20	
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/Kg		94	82 - 146	4	20	
Tetrachloroethene	50.0	49.4		ug/Kg		99	78 - 132	2	20	
Toluene	50.0	46.4		ug/Kg		93	83 - 128	4	20	
1,2,3-Trichlorobenzene	50.0	54.6		ug/Kg		109	82 - 135	1	20	
1,2,4-Trichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131	1	20	
1,1,1-Trichloroethane	50.0	47.4		ug/Kg		95	80 - 127	3	20	
1,1,2-Trichloroethane	50.0	47.4		ug/Kg		95	82 - 125	1	20	
Trichloroethene	50.0	48.0		ug/Kg		96	81 - 133	2	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95636/3-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	RPD Limit
							Limits	RPD		
Trichlorofluoromethane	50.0	52.4		ug/Kg		105	71 - 139	4	20	
1,2,3-Trichloropropane	50.0	48.2		ug/Kg		96	76 - 146	3	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	70 - 130	2	20	
1,2,4-Trimethylbenzene	50.0	47.0		ug/Kg		94	84 - 130	3	20	
1,3,5-Trimethylbenzene	50.0	48.8		ug/Kg		98	82 - 131	3	20	
Vinyl acetate	50.0	ND		ug/Kg		97	38 - 176	7	20	
Vinyl chloride	50.0	47.8		ug/Kg		96	63 - 140	4	20	
m-Xylene & p-Xylene	100	89.8		ug/Kg		90	79 - 146	4	20	
o-Xylene	50.0	46.8		ug/Kg		94	84 - 140	3	20	
2,2-Dichloropropane	50.0	48.0		ug/Kg		96	73 - 162	4	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-95636/5-A

Matrix: Solid

Analysis Batch: 95593

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	RPD Limit
							Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	898		ug/Kg		90	61 - 128	6	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: MB 720-95698/1-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95698

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Acetone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Benzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Bromobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Bromoform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Bromomethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2-Butanone (MEK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
n-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Carbon disulfide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95698/1-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95698

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloroethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chloroform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chloromethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Dibromomethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Ethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2-Hexanone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Isopropylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Methylene Chloride	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Naphthalene	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
N-Propylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Styrene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Tetrachloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Toluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Trichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Vinyl acetate	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Vinyl chloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95698/1-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95698

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Xylenes, Total	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/21/11 08:00	07/21/11 09:53	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	98		45 - 131	07/21/11 08:00	07/21/11 09:53	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 140	07/21/11 08:00	07/21/11 09:53	1
Toluene-d8 (Surr)	97		58 - 140	07/21/11 08:00	07/21/11 09:53	1

Lab Sample ID: LCS 720-95698/2-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	48.0		ug/Kg		96	71 - 144
Acetone	250	220		ug/Kg		88	30 - 162
Benzene	50.0	46.2		ug/Kg		92	82 - 124
Dichlorobromomethane	50.0	45.8		ug/Kg		92	86 - 131
Bromobenzene	50.0	48.2		ug/Kg		96	88 - 120
Chlorobromomethane	50.0	48.8		ug/Kg		98	81 - 116
Bromoform	50.0	45.0		ug/Kg		90	59 - 158
Bromomethane	50.0	51.0		ug/Kg		102	59 - 132
2-Butanone (MEK)	250	243		ug/Kg		97	61 - 150
n-Butylbenzene	50.0	49.8		ug/Kg		100	80 - 142
sec-Butylbenzene	50.0	47.8		ug/Kg		96	85 - 136
tert-Butylbenzene	50.0	48.2		ug/Kg		96	71 - 130
Carbon disulfide	50.0	49.4		ug/Kg		99	60 - 136
Carbon tetrachloride	50.0	44.0		ug/Kg		88	81 - 138
Chlorobenzene	50.0	47.2		ug/Kg		94	87 - 113
Chloroethane	50.0	51.0		ug/Kg		102	69 - 141
Chloroform	50.0	45.4		ug/Kg		91	77 - 127
Chloromethane	50.0	51.2		ug/Kg		102	60 - 149
2-Chlorotoluene	50.0	47.8		ug/Kg		96	80 - 138
4-Chlorotoluene	50.0	46.0		ug/Kg		92	79 - 136
Chlorodibromomethane	50.0	45.2		ug/Kg		90	75 - 146
1,2-Dichlorobenzene	50.0	47.2		ug/Kg		94	84 - 130
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	84 - 131
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	85 - 125
1,3-Dichloropropane	50.0	46.6		ug/Kg		93	79 - 140
1,1-Dichloropropene	50.0	46.8		ug/Kg		94	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.0		ug/Kg		96	68 - 145
Ethylene Dibromide	50.0	47.6		ug/Kg		95	79 - 140
Dibromomethane	50.0	45.0		ug/Kg		90	80 - 139
Dichlorodifluoromethane	50.0	52.6		ug/Kg		105	37 - 158
1,1-Dichloroethane	50.0	44.6		ug/Kg		89	85 - 124
1,2-Dichloroethane	50.0	43.2		ug/Kg		86	72 - 130
1,1-Dichloroethene	50.0	49.4		ug/Kg		99	76 - 122
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	87 - 138

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
 Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95698/2-A
Matrix: Solid
Analysis Batch: 95634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95698

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				
trans-1,2-Dichloroethene	50.0	42.2		ug/Kg		84	67 - 108
1,2-Dichloropropane	50.0	44.4		ug/Kg		89	73 - 127
cis-1,3-Dichloropropene	50.0	44.8		ug/Kg		90	68 - 147
trans-1,3-Dichloropropene	50.0	44.8		ug/Kg		90	84 - 136
Ethylbenzene	50.0	46.4		ug/Kg		93	80 - 137
Hexachlorobutadiene	50.0	50.2		ug/Kg		100	72 - 132
2-Hexanone	250	214		ug/Kg		85	60 - 161
Isopropylbenzene	50.0	48.0		ug/Kg		96	88 - 128
4-Isopropyltoluene	50.0	48.6		ug/Kg		97	85 - 133
Methylene Chloride	50.0	47.2		ug/Kg		94	72 - 134
4-Methyl-2-pentanone (MIBK)	250	216		ug/Kg		86	69 - 160
Naphthalene	50.0	49.0		ug/Kg		98	70 - 147
N-Propylbenzene	50.0	45.4		ug/Kg		91	72 - 125
Styrene	50.0	47.2		ug/Kg		94	89 - 126
1,1,1,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	90 - 130
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	82 - 146
Tetrachloroethene	50.0	49.6		ug/Kg		99	78 - 132
Toluene	50.0	46.8		ug/Kg		94	83 - 128
1,2,3-Trichlorobenzene	50.0	51.6		ug/Kg		103	82 - 135
1,2,4-Trichlorobenzene	50.0	49.4		ug/Kg		99	70 - 131
1,1,1-Trichloroethane	50.0	46.0		ug/Kg		92	80 - 127
1,1,2-Trichloroethane	50.0	45.6		ug/Kg		91	82 - 125
Trichloroethene	50.0	47.2		ug/Kg		94	81 - 133
Trichlorofluoromethane	50.0	53.6		ug/Kg		107	71 - 139
1,2,3-Trichloropropane	50.0	47.4		ug/Kg		95	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	70 - 130
1,2,4-Trimethylbenzene	50.0	46.4		ug/Kg		93	84 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/Kg		97	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		96	38 - 176
Vinyl chloride	50.0	52.6		ug/Kg		105	63 - 140
m-Xylene & p-Xylene	100	90.8		ug/Kg		91	79 - 146
o-Xylene	50.0	46.6		ug/Kg		93	84 - 140
2,2-Dichloropropane	50.0	46.2		ug/Kg		92	73 - 162

Surrogate	LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Lab Sample ID: LCS 720-95698/4-A
Matrix: Solid
Analysis Batch: 95634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95698

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	1000	953		ug/Kg		95	61 - 128

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95698/4-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95698

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-95698/3-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD Limit
							Limits	RPD	
Methyl tert-butyl ether	50.0	50.4		ug/Kg		101	71 - 144	5	20
Acetone	250	253		ug/Kg		101	30 - 162	14	30
Benzene	50.0	48.4		ug/Kg		97	82 - 124	5	20
Dichlorobromomethane	50.0	48.4		ug/Kg		97	86 - 131	6	20
Bromobenzene	50.0	50.2		ug/Kg		100	88 - 120	4	20
Chlorobromomethane	50.0	50.2		ug/Kg		100	81 - 116	3	20
Bromoform	50.0	46.6		ug/Kg		93	59 - 158	3	20
Bromomethane	50.0	51.4		ug/Kg		103	59 - 132	1	20
2-Butanone (MEK)	250	262		ug/Kg		105	61 - 150	8	20
n-Butylbenzene	50.0	51.2		ug/Kg		102	80 - 142	3	20
sec-Butylbenzene	50.0	49.6		ug/Kg		99	85 - 136	4	20
tert-Butylbenzene	50.0	50.6		ug/Kg		101	71 - 130	5	20
Carbon disulfide	50.0	50.4		ug/Kg		101	60 - 136	2	20
Carbon tetrachloride	50.0	46.2		ug/Kg		92	81 - 138	5	20
Chlorobenzene	50.0	48.0		ug/Kg		96	87 - 113	2	20
Chloroethane	50.0	50.6		ug/Kg		101	69 - 141	1	20
Chloroform	50.0	46.6		ug/Kg		93	77 - 127	3	20
Chloromethane	50.0	51.6		ug/Kg		103	60 - 149	1	20
2-Chlorotoluene	50.0	49.4		ug/Kg		99	80 - 138	3	20
4-Chlorotoluene	50.0	47.6		ug/Kg		95	79 - 136	3	20
Chlorodibromomethane	50.0	48.2		ug/Kg		96	75 - 146	6	20
1,2-Dichlorobenzene	50.0	48.8		ug/Kg		98	84 - 130	3	20
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	84 - 131	4	20
1,4-Dichlorobenzene	50.0	48.8		ug/Kg		98	85 - 125	3	20
1,3-Dichloropropane	50.0	50.6		ug/Kg		101	79 - 140	8	20
1,1-Dichloropropene	50.0	50.0		ug/Kg		100	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/Kg		98	68 - 145	2	20
Ethylene Dibromide	50.0	51.2		ug/Kg		102	79 - 140	7	20
Dibromomethane	50.0	48.2		ug/Kg		96	80 - 139	7	20
Dichlorodifluoromethane	50.0	53.0		ug/Kg		106	37 - 158	1	20
1,1-Dichloroethane	50.0	46.2		ug/Kg		92	85 - 124	4	20
1,2-Dichloroethane	50.0	45.8		ug/Kg		92	72 - 130	6	20
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	76 - 122	3	20
cis-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	87 - 138	3	20
trans-1,2-Dichloroethene	50.0	43.0		ug/Kg		86	67 - 108	2	20
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	73 - 127	7	20
cis-1,3-Dichloropropene	50.0	48.4		ug/Kg		97	68 - 147	8	20
trans-1,3-Dichloropropene	50.0	48.8		ug/Kg		98	84 - 136	9	20
Ethylbenzene	50.0	47.2		ug/Kg		94	80 - 137	2	20
Hexachlorobutadiene	50.0	52.8		ug/Kg		106	72 - 132	5	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95698/3-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2-Hexanone	250	229		ug/Kg		92	60 - 161	7	20
Isopropylbenzene	50.0	49.0		ug/Kg		98	88 - 128	2	20
4-Isopropyltoluene	50.0	50.4		ug/Kg		101	85 - 133	4	20
Methylene Chloride	50.0	49.0		ug/Kg		98	72 - 134	4	20
4-Methyl-2-pentanone (MIBK)	250	228		ug/Kg		91	69 - 160	5	20
Naphthalene	50.0	50.6		ug/Kg		101	70 - 147	3	20
N-Propylbenzene	50.0	47.0		ug/Kg		94	72 - 125	3	20
Styrene	50.0	48.2		ug/Kg		96	89 - 126	2	20
1,1,1,2-Tetrachloroethane	50.0	45.8		ug/Kg		92	90 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	82 - 146	3	20
Tetrachloroethene	50.0	53.2		ug/Kg		106	78 - 132	7	20
Toluene	50.0	47.8		ug/Kg		96	83 - 128	2	20
1,2,3-Trichlorobenzene	50.0	53.6		ug/Kg		107	82 - 135	4	20
1,2,4-Trichlorobenzene	50.0	50.8		ug/Kg		102	70 - 131	3	20
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	80 - 127	3	20
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	82 - 125	8	20
Trichloroethene	50.0	50.2		ug/Kg		100	81 - 133	6	20
Trichlorofluoromethane	50.0	53.6		ug/Kg		107	71 - 139	0	20
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	76 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.4		ug/Kg		103	70 - 130	3	20
1,2,4-Trimethylbenzene	50.0	48.2		ug/Kg		96	84 - 130	4	20
1,3,5-Trimethylbenzene	50.0	50.4		ug/Kg		101	82 - 131	4	20
Vinyl acetate	50.0	51.0		ug/Kg		102	38 - 176	6	20
Vinyl chloride	50.0	52.6		ug/Kg		105	63 - 140	0	20
m-Xylene & p-Xylene	100	91.8		ug/Kg		92	79 - 146	1	20
o-Xylene	50.0	47.0		ug/Kg		94	84 - 140	1	20
2,2-Dichloropropane	50.0	48.6		ug/Kg		97	73 - 162	5	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCSD 720-95698/5-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	855		ug/Kg		86	61 - 128	11	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	95		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	97		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-95374/1-A
Matrix: Solid
Analysis Batch: 95445

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 95374

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/18/11 08:55	07/19/11 13:51	1
Surrogate									
	MB MB		Limits			D	Prepared	Analyzed	Dil Fac
Surrogate	% Recovery	Qualifier							
Capric Acid (Surr)	0.2		0 - 5				07/18/11 08:55	07/19/11 13:51	1
p-Terphenyl	102		50 - 150				07/18/11 08:55	07/19/11 13:51	1

Lab Sample ID: LCS 720-95374/2-A
Matrix: Solid
Analysis Batch: 95445

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 95374

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	
Diesel Range Organics [C10-C28]	82.4	72.6		mg/Kg		88	50 - 150	
Surrogate								
	LCS LCS		Limits			D	% Rec	Limits
Surrogate	% Recovery	Qualifier						
p-Terphenyl	99		50 - 150					

Lab Sample ID: LCSD 720-95374/3-A
Matrix: Solid
Analysis Batch: 95445

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 95374

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec.		RPD
		Result	Qualifier				Limits	RPD	Limit
Diesel Range Organics [C10-C28]	83.3	78.2		mg/Kg		94	50 - 150	7	35
Surrogate									
	LCSD LCSD		Limits			D	% Rec	Limits	RPD
Surrogate	% Recovery	Qualifier							
p-Terphenyl	110		50 - 150						

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

GC/MS VOA

Analysis Batch: 95458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95527/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95527
LCS 720-95527/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95527
LCSD 720-95527/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95527
LCS 720-95527/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95527
LCSD 720-95527/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36299-2	#3 BASE (N)	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36299-2 MS	#3 BASE (N)	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36299-2 MSD	#3 BASE (N)	Total/NA	Solid	8260B/CA_LUFT MS	95527

Prep Batch: 95527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95527/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95527/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95527/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95527/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95527/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36299-2	#3 BASE (N)	Total/NA	Solid	5030B	
720-36299-2 MS	#3 BASE (N)	Total/NA	Solid	5030B	
720-36299-2 MSD	#3 BASE (N)	Total/NA	Solid	5030B	

Analysis Batch: 95593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95636/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95636
LCS 720-95636/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95636
LCSD 720-95636/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95636
LCS 720-95636/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95636
LCSD 720-95636/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95636
720-36299-1	#3 BASE (S)	Total/NA	Solid	8260B/CA_LUFT MS	95636
720-36299-4	#3 EAST (S)	Total/NA	Solid	8260B/CA_LUFT MS	95636
720-36299-14	SP2-A,B,C,D	Total/NA	Solid	8260B/CA_LUFT MS	95636

Analysis Batch: 95634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95698/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95698
LCS 720-95698/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95698
LCSD 720-95698/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95698
LCS 720-95698/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95698



QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

GC/MS VOA (Continued)

Analysis Batch: 95634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-95698/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT	95698
720-36299-3	#3 EAST (N)	Total/NA	Solid	8260B/CA_LUFT	95698
720-36299-9	SP5-A,B,C,D	Total/NA	Solid	8260B/CA_LUFT	95698

Prep Batch: 95636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95636/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95636/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95636/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95636/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95636/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36299-1	#3 BASE (S)	Total/NA	Solid	5030B	
720-36299-4	#3 EAST (S)	Total/NA	Solid	5030B	
720-36299-14	SP2-A,B,C,D	Total/NA	Solid	5030B	

Prep Batch: 95698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95698/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95698/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95698/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95698/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95698/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36299-3	#3 EAST (N)	Total/NA	Solid	5030B	
720-36299-9	SP5-A,B,C,D	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 95374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95374/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-95374/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-95374/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36299-1	#3 BASE (S)	Silica Gel Cleanup	Solid	3546	
720-36299-2	#3 BASE (N)	Silica Gel Cleanup	Solid	3546	
720-36299-3	#3 EAST (N)	Silica Gel Cleanup	Solid	3546	
720-36299-4	#3 EAST (S)	Silica Gel Cleanup	Solid	3546	
720-36299-9	SP5-A,B,C,D	Silica Gel Cleanup	Solid	3546	
720-36299-14	SP2-A,B,C,D	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 95444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36299-14	SP2-A,B,C,D	Silica Gel Cleanup	Solid	8015B	95374
720-36299-9	SP5-A,B,C,D	Silica Gel Cleanup	Solid	8015B	95374
720-36299-2	#3 BASE (N)	Silica Gel Cleanup	Solid	8015B	95374
720-36299-3	#3 EAST (N)	Silica Gel Cleanup	Solid	8015B	95374
720-36299-4	#3 EAST (S)	Silica Gel Cleanup	Solid	8015B	95374

Analysis Batch: 95445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-95374/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	95374

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

GC Semi VOA (Continued)

Analysis Batch: 95445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-95374/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	95374
MB 720-95374/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	95374
720-36299-1	#3 BASE (S)	Silica Gel Cleanup	Solid	8015B	95374

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Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Client Sample ID: #3 BASE (S)

Lab Sample ID: 720-36299-1

Date Collected: 07/14/11 09:00

Matrix: Solid

Date Received: 07/14/11 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95636	07/20/11 15:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95593	07/21/11 00:55	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95445	07/19/11 19:46	DH	TAL SF

Client Sample ID: #3 BASE (N)

Lab Sample ID: 720-36299-2

Date Collected: 07/14/11 10:48

Matrix: Solid

Date Received: 07/14/11 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 16:55	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95444	07/19/11 18:57	DH	TAL SF

Client Sample ID: #3 EAST (N)

Lab Sample ID: 720-36299-3

Date Collected: 07/14/11 08:45

Matrix: Solid

Date Received: 07/14/11 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95698	07/21/11 08:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95634	07/21/11 14:28	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95444	07/19/11 19:22	DH	TAL SF

Client Sample ID: #3 EAST (S)

Lab Sample ID: 720-36299-4

Date Collected: 07/14/11 08:45

Matrix: Solid

Date Received: 07/14/11 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95636	07/20/11 15:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95593	07/21/11 01:57	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95444	07/19/11 19:46	DH	TAL SF

Client Sample ID: SP5-A,B,C,D

Lab Sample ID: 720-36299-9

Date Collected: 07/14/11 13:00

Matrix: Solid

Date Received: 07/14/11 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95698	07/21/11 08:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95634	07/21/11 14:59	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		10	95444	07/19/11 16:32	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Client Sample ID: SP2-A,B,C,D

Lab Sample ID: 720-36299-14

Date Collected: 07/14/11 13:15

Matrix: Solid

Date Received: 07/14/11 15:26

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared Or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	5030B			95636	07/20/11 15:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95593	07/21/11 02:59	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		2	95444	07/19/11 16:08	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36299-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36299-1	#3 BASE (S)	Solid	07/14/11 09:00	07/14/11 15:26
720-36299-2	#3 BASE (N)	Solid	07/14/11 10:48	07/14/11 15:26
720-36299-3	#3 EAST (N)	Solid	07/14/11 08:45	07/14/11 15:26
720-36299-4	#3 EAST (S)	Solid	07/14/11 08:45	07/14/11 15:26
720-36299-9	SP5-A,B,C,D	Solid	07/14/11 13:00	07/14/11 15:26
720-36299-14	SP2-A,B,C,D	Solid	07/14/11 13:15	07/14/11 15:26

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Report To Analysis Request

Attn: **RICHARD GANDOLFO**
 Company: **ENGE0**
 Address: **580 N. Wilma, Ste A, Ripon**
 Phone: **(209) 684 7609** Email: **rgandolfo@engeo.com**
 Bill To: **above** Sampled By: **R. Gandolfo**
 Attn: **above** Phone: **(209) 321 2665**

Sample ID	Date	Time	Mat. rx	Preserv	TPH EPA 8260B <input checked="" type="checkbox"/> Gas w/ <input type="checkbox"/> BTK <input type="checkbox"/> MTBE	TEPH EPA 8015M <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	(HVOCS) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PCBs	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 60107/4707471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H ₂ O)	Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
#3 Base (S)	7/11/11	9:00	S	ice	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
#3 Base (N)		10:48			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
#3 East (N)		8:45			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
#3 East (S)		8:45			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
#3 West					/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
#3					/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
#3					/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
#3					/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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Project Info				Sample Receipt				1) Relinquished by:				2) Relinquished by:				3) Relinquished by:			
Project Name: Macedo Remediation				# of Containers: 12				Signature: [Signature] Time: 15:26				Signature: _____ Time: _____				Signature: _____ Time: _____			
Project#: 7380-000-003				Head Space:				Printed Name: Richard Gandolfo Date: 7/11/11				Printed Name: _____ Date: _____				Printed Name: _____ Date: _____			
PO#:				Temp: 3.2c				Company: ENGE0				Company: _____				Company: _____			
Credit Card#:				Conforms to record:				Company: _____				Company: _____				Company: _____			
T A T				Other:				1) Received by:				2) Received by:				3) Received by:			
5 Day				3 Day				Signature: [Signature] Time: 1526				Signature: _____ Time: _____				Signature: _____ Time: _____			
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank				Fund EDF: <input checked="" type="checkbox"/>				Printed Name: Mullen Date: 7-14-11				Printed Name: _____ Date: _____				Printed Name: _____ Date: _____			
Special Instructions / Comments:				Global ID: _____				Company: Test America				Company: _____				Company: _____			

07/21/2011

See Terms and Conditions
*TestAmerica SF req. 15M from C₇-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₈



Report To: **Analysis Request**

Attn: **RICHARD GANDOLFO**
 Company: **ENGEO**
 Address: **580 N. Wilma, Ste A, Ripon**
 Phone: **(209) 684 7609** Email: **rgandolfo@engeo.com**
 Bill To: **above** Sampled By: **R. Gandolfo**
 Attn: **above** Phone: **(209) 321 2665**

Sample ID	Date	Time	Mat. in	Preserv.	TPH EPA - 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PCBs	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H ₂ O)	Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
SP5-A	7/14/11	13:00	S	ice	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
SP5-B		13:00			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
SP5-C		13:00			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
SP5-D		13:00			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
SP2-A		13:15			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
SP2-B		13:15			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
SP2-C		13:15			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
SP2-D		13:15			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1

Project Info
 Project Name: **Macedo Remediation**
 Project#: _____
 PO#: _____
 Credit Card#: _____

Sample Receipt
 # of Containers: **12**
 Head Space: _____
 Temp: **3.29**
 Other: _____
 Conforms to record: _____

1) Relinquished by:
 Signature: [Signature] Time: 15:26
 Printed Name: Richard Gandolfo Date: 7/14
 Company: ENGEO

2) Relinquished by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3) Relinquished by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

TAT Day 3 Day 2 Day 1 Day
 Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
 Special Instructions / Comments: Global ID _____
Composite (A-D)

See Terms and Conditions
 *TestAmerica SF req. 15M from C₉-C₂₄ (Industry norm). Default for 8015B is C₁₀-C₂₈

1) Received by:
 Signature: [Signature] Time: 15:26
 Printed Name: Mullen Date: 7-14-11
 Company: Test Amin

2) Received by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3) Received by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

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07/21/2011



Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36299-1

Login Number: 36299

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36325-1
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, California 95366-9502

Attn: Mr. Richard Gandolfo



Authorized for release by:
07/22/2011 04:37:24 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Job ID: 720-36325-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36325-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-36352-2 MS), (720-36352-2 MSD), 3 WSW- A (720-36352-2).

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 95653 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: #3 NORTH (SAMPLE) (720-36325-3).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Client Sample ID: #3 NORTH

Lab Sample ID: 720-36325-1

No Detections.

Client Sample ID: #1 BASE 1

Lab Sample ID: 720-36325-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	10		1.0		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: #3 NORTH (SAMPLE)

Lab Sample ID: 720-36325-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1800		230		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	710		9.9		mg/Kg	10		8015B	Silica Gel Clear

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: #3 NORTH
Date Collected: 07/15/11 07:40
Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Acetone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Benzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Bromobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Bromoform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Bromomethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
2-Butanone (MEK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
n-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Carbon disulfide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Chlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Chloroethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Chloroform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Chloromethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Dibromomethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Ethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
2-Hexanone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Isopropylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Methylene Chloride	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Naphthalene	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
N-Propylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Styrene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #3 NORTH
Date Collected: 07/15/11 07:40
Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Tetrachloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Toluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Trichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Vinyl acetate	ND		50		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Vinyl chloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Xylenes, Total	ND		10		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 13:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/21/11 08:00	07/21/11 13:57	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131	07/21/11 08:00	07/21/11 13:57	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 140	07/21/11 08:00	07/21/11 13:57	1
Toluene-d8 (Surr)	97		58 - 140	07/21/11 08:00	07/21/11 13:57	1

Client Sample ID: #1 BASE 1
Date Collected: 07/15/11 12:45
Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Acetone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Benzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Bromobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Bromoform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Bromomethane	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
2-Butanone (MEK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
n-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Carbon disulfide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Chlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Chloroethane	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Chloroform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Chloromethane	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #1 BASE 1
Date Collected: 07/15/11 12:45
Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Dibromomethane	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Ethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
2-Hexanone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Isopropylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Methylene Chloride	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Naphthalene	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
N-Propylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Styrene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Tetrachloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Toluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Trichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Vinyl acetate	ND		50		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Vinyl chloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Xylenes, Total	ND		9.9		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 16:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/21/11 08:00	07/21/11 16:32	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		45 - 131	07/21/11 08:00	07/21/11 16:32	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 140	07/21/11 08:00	07/21/11 16:32	1
Toluene-d8 (Surr)	99		58 - 140	07/21/11 08:00	07/21/11 16:32	1

Client Sample ID: #3 NORTH (SAMPLE)

Date Collected: 07/15/11 07:45

Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Acetone	ND		47		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Benzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Dichlorobromomethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Bromobenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Chlorobromomethane	ND		19		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Bromoform	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Bromomethane	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
2-Butanone (MEK)	ND		47		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
n-Butylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
sec-Butylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
tert-Butylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Carbon disulfide	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Carbon tetrachloride	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Chlorobenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Chloroethane	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Chloroform	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Chloromethane	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
2-Chlorotoluene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
4-Chlorotoluene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Chlorodibromomethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,3-Dichloropropane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1-Dichloropropene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Ethylene Dibromide	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Dibromomethane	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1-Dichloroethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2-Dichloroethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1-Dichloroethene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2-Dichloropropane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Ethylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Hexachlorobutadiene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
2-Hexanone	ND		47		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Isopropylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
4-Isopropyltoluene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Methylene Chloride	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #3 NORTH (SAMPLE)

Lab Sample ID: 720-36325-3

Date Collected: 07/15/11 07:45

Matrix: Solid

Date Received: 07/15/11 14:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Naphthalene	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
N-Propylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Styrene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Tetrachloroethene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Toluene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Trichloroethene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Trichlorofluoromethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Vinyl acetate	ND		47		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Vinyl chloride	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Xylenes, Total	ND		9.4		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
2,2-Dichloropropane	ND		4.7		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
Gasoline Range Organics (GRO)	1800		230		ug/Kg		07/21/11 08:00	07/21/11 17:03	1
-C5-C12									
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131				07/21/11 08:00	07/21/11 17:03	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 140				07/21/11 08:00	07/21/11 17:03	1
Toluene-d8 (Surr)	96		58 - 140				07/21/11 08:00	07/21/11 17:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: #3 NORTH
Date Collected: 07/15/11 07:40
Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/21/11 09:57	07/22/11 11:44	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 5				07/21/11 09:57	07/22/11 11:44	1
p-Terphenyl	100		38 - 148				07/21/11 09:57	07/22/11 11:44	1

Client Sample ID: #1 BASE 1
Date Collected: 07/15/11 12:45
Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10		1.0		mg/Kg		07/21/11 09:57	07/22/11 12:07	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	2		0 - 5				07/21/11 09:57	07/22/11 12:07	1
p-Terphenyl	107		38 - 148				07/21/11 09:57	07/22/11 12:07	1

Client Sample ID: #3 NORTH (SAMPLE)
Date Collected: 07/15/11 07:45
Date Received: 07/15/11 14:55

Lab Sample ID: 720-36325-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	710		9.9		mg/Kg		07/21/11 09:57	07/22/11 13:02	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/21/11 09:57	07/22/11 13:02	10
p-Terphenyl	0	D	38 - 148				07/21/11 09:57	07/22/11 13:02	10

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-95698/1-A
Matrix: Solid
Analysis Batch: 95634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95698

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Acetone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Benzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Bromobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Bromoform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Bromomethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2-Butanone (MEK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
n-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Carbon disulfide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chloroethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chloroform	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chloromethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Dibromomethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Ethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2-Hexanone	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Isopropylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Methylene Chloride	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Naphthalene	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
N-Propylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Styrene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95698/1-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95698

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Tetrachloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Toluene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Trichloroethene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Vinyl acetate	ND		50		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Vinyl chloride	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
o-Xylene	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Xylenes, Total	ND		10		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 08:00	07/21/11 09:53	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/21/11 08:00	07/21/11 09:53	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	98		45 - 131	07/21/11 08:00	07/21/11 09:53	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 140	07/21/11 08:00	07/21/11 09:53	1
Toluene-d8 (Surr)	97		58 - 140	07/21/11 08:00	07/21/11 09:53	1

Lab Sample ID: LCS 720-95698/2-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	250	220		ug/Kg		88	30 - 162
Benzene	50.0	46.2		ug/Kg		92	82 - 124
Dichlorobromomethane	50.0	45.8		ug/Kg		92	86 - 131
Bromobenzene	50.0	48.2		ug/Kg		96	88 - 120
Chlorobromomethane	50.0	48.8		ug/Kg		98	81 - 116
Bromoform	50.0	45.0		ug/Kg		90	59 - 158
Bromomethane	50.0	51.0		ug/Kg		102	59 - 132
2-Butanone (MEK)	250	243		ug/Kg		97	61 - 150
n-Butylbenzene	50.0	49.8		ug/Kg		100	80 - 142
sec-Butylbenzene	50.0	47.8		ug/Kg		96	85 - 136
tert-Butylbenzene	50.0	48.2		ug/Kg		96	71 - 130
Carbon disulfide	50.0	49.4		ug/Kg		99	60 - 136
Carbon tetrachloride	50.0	44.0		ug/Kg		88	81 - 138
Chlorobenzene	50.0	47.2		ug/Kg		94	87 - 113
Chloroethane	50.0	51.0		ug/Kg		102	69 - 141
Chloroform	50.0	45.4		ug/Kg		91	77 - 127
Chloromethane	50.0	51.2		ug/Kg		102	60 - 149

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95698/2-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec. Limits
	Added	Result	Qualifier				
2-Chlorotoluene	50.0	47.8		ug/Kg		96	80 - 138
4-Chlorotoluene	50.0	46.0		ug/Kg		92	79 - 136
Chlorodibromomethane	50.0	45.2		ug/Kg		90	75 - 146
1,2-Dichlorobenzene	50.0	47.2		ug/Kg		94	84 - 130
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	84 - 131
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	85 - 125
1,3-Dichloropropane	50.0	46.6		ug/Kg		93	79 - 140
1,1-Dichloropropene	50.0	46.8		ug/Kg		94	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.0		ug/Kg		96	68 - 145
Ethylene Dibromide	50.0	47.6		ug/Kg		95	79 - 140
Dibromomethane	50.0	45.0		ug/Kg		90	80 - 139
Dichlorodifluoromethane	50.0	52.6		ug/Kg		105	37 - 158
1,1-Dichloroethane	50.0	44.6		ug/Kg		89	85 - 124
1,2-Dichloroethane	50.0	43.2		ug/Kg		86	72 - 130
1,1-Dichloroethene	50.0	49.4		ug/Kg		99	76 - 122
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	87 - 138
trans-1,2-Dichloroethene	50.0	42.2		ug/Kg		84	67 - 108
1,2-Dichloropropane	50.0	44.4		ug/Kg		89	73 - 127
cis-1,3-Dichloropropene	50.0	44.8		ug/Kg		90	68 - 147
trans-1,3-Dichloropropene	50.0	44.8		ug/Kg		90	84 - 136
Ethylbenzene	50.0	46.4		ug/Kg		93	80 - 137
Hexachlorobutadiene	50.0	50.2		ug/Kg		100	72 - 132
2-Hexanone	250	214		ug/Kg		85	60 - 161
Isopropylbenzene	50.0	48.0		ug/Kg		96	88 - 128
4-Isopropyltoluene	50.0	48.6		ug/Kg		97	85 - 133
Methylene Chloride	50.0	47.2		ug/Kg		94	72 - 134
4-Methyl-2-pentanone (MIBK)	250	216		ug/Kg		86	69 - 160
Naphthalene	50.0	49.0		ug/Kg		98	70 - 147
N-Propylbenzene	50.0	45.4		ug/Kg		91	72 - 125
Styrene	50.0	47.2		ug/Kg		94	89 - 126
1,1,1,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	90 - 130
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	82 - 146
Tetrachloroethene	50.0	49.6		ug/Kg		99	78 - 132
Toluene	50.0	46.8		ug/Kg		94	83 - 128
1,2,3-Trichlorobenzene	50.0	51.6		ug/Kg		103	82 - 135
1,2,4-Trichlorobenzene	50.0	49.4		ug/Kg		99	70 - 131
1,1,1-Trichloroethane	50.0	46.0		ug/Kg		92	80 - 127
1,1,2-Trichloroethane	50.0	45.6		ug/Kg		91	82 - 125
Trichloroethene	50.0	47.2		ug/Kg		94	81 - 133
Trichlorofluoromethane	50.0	53.6		ug/Kg		107	71 - 139
1,2,3-Trichloropropane	50.0	47.4		ug/Kg		95	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	70 - 130
1,2,4-Trimethylbenzene	50.0	46.4		ug/Kg		93	84 - 130
1,3,5-Trimethylbenzene	50.0	48.6		ug/Kg		97	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		96	38 - 176
Vinyl chloride	50.0	52.6		ug/Kg		105	63 - 140
m-Xylene & p-Xylene	100	90.8		ug/Kg		91	79 - 146
o-Xylene	50.0	46.6		ug/Kg		93	84 - 140
2,2-Dichloropropane	50.0	46.2		ug/Kg		92	73 - 162

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95698/2-A
Matrix: Solid
Analysis Batch: 95634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95698

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	95		58 - 140

Lab Sample ID: LCS 720-95698/4-A
Matrix: Solid
Analysis Batch: 95634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95698

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO) -C5-C12	1000	953		ug/Kg		95	61 - 128	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-95698/3-A
Matrix: Solid
Analysis Batch: 95634

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95698

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Methyl tert-butyl ether	50.0	50.4		ug/Kg		101	71 - 144	5	20	
Acetone	250	253		ug/Kg		101	30 - 162	14	30	
Benzene	50.0	48.4		ug/Kg		97	82 - 124	5	20	
Dichlorobromomethane	50.0	48.4		ug/Kg		97	86 - 131	6	20	
Bromobenzene	50.0	50.2		ug/Kg		100	88 - 120	4	20	
Chlorobromomethane	50.0	50.2		ug/Kg		100	81 - 116	3	20	
Bromoform	50.0	46.6		ug/Kg		93	59 - 158	3	20	
Bromomethane	50.0	51.4		ug/Kg		103	59 - 132	1	20	
2-Butanone (MEK)	250	262		ug/Kg		105	61 - 150	8	20	
n-Butylbenzene	50.0	51.2		ug/Kg		102	80 - 142	3	20	
sec-Butylbenzene	50.0	49.6		ug/Kg		99	85 - 136	4	20	
tert-Butylbenzene	50.0	50.6		ug/Kg		101	71 - 130	5	20	
Carbon disulfide	50.0	50.4		ug/Kg		101	60 - 136	2	20	
Carbon tetrachloride	50.0	46.2		ug/Kg		92	81 - 138	5	20	
Chlorobenzene	50.0	48.0		ug/Kg		96	87 - 113	2	20	
Chloroethane	50.0	50.6		ug/Kg		101	69 - 141	1	20	
Chloroform	50.0	46.6		ug/Kg		93	77 - 127	3	20	
Chloromethane	50.0	51.6		ug/Kg		103	60 - 149	1	20	
2-Chlorotoluene	50.0	49.4		ug/Kg		99	80 - 138	3	20	
4-Chlorotoluene	50.0	47.6		ug/Kg		95	79 - 136	3	20	
Chlorodibromomethane	50.0	48.2		ug/Kg		96	75 - 146	6	20	
1,2-Dichlorobenzene	50.0	48.8		ug/Kg		98	84 - 130	3	20	
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	84 - 131	4	20	
1,4-Dichlorobenzene	50.0	48.8		ug/Kg		98	85 - 125	3	20	
1,3-Dichloropropane	50.0	50.6		ug/Kg		101	79 - 140	8	20	
1,1-Dichloropropene	50.0	50.0		ug/Kg		100	70 - 130	7	20	
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/Kg		98	68 - 145	2	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95698/3-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Ethylene Dibromide	50.0	51.2		ug/Kg		102	79 - 140	7	20
Dibromomethane	50.0	48.2		ug/Kg		96	80 - 139	7	20
Dichlorodifluoromethane	50.0	53.0		ug/Kg		106	37 - 158	1	20
1,1-Dichloroethane	50.0	46.2		ug/Kg		92	85 - 124	4	20
1,2-Dichloroethane	50.0	45.8		ug/Kg		92	72 - 130	6	20
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	76 - 122	3	20
cis-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	87 - 138	3	20
trans-1,2-Dichloroethene	50.0	43.0		ug/Kg		86	67 - 108	2	20
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	73 - 127	7	20
cis-1,3-Dichloropropene	50.0	48.4		ug/Kg		97	68 - 147	8	20
trans-1,3-Dichloropropene	50.0	48.8		ug/Kg		98	84 - 136	9	20
Ethylbenzene	50.0	47.2		ug/Kg		94	80 - 137	2	20
Hexachlorobutadiene	50.0	52.8		ug/Kg		106	72 - 132	5	20
2-Hexanone	250	229		ug/Kg		92	60 - 161	7	20
Isopropylbenzene	50.0	49.0		ug/Kg		98	88 - 128	2	20
4-Isopropyltoluene	50.0	50.4		ug/Kg		101	85 - 133	4	20
Methylene Chloride	50.0	49.0		ug/Kg		98	72 - 134	4	20
4-Methyl-2-pentanone (MIBK)	250	228		ug/Kg		91	69 - 160	5	20
Naphthalene	50.0	50.6		ug/Kg		101	70 - 147	3	20
N-Propylbenzene	50.0	47.0		ug/Kg		94	72 - 125	3	20
Styrene	50.0	48.2		ug/Kg		96	89 - 126	2	20
1,1,1,2-Tetrachloroethane	50.0	45.8		ug/Kg		92	90 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	82 - 146	3	20
Tetrachloroethene	50.0	53.2		ug/Kg		106	78 - 132	7	20
Toluene	50.0	47.8		ug/Kg		96	83 - 128	2	20
1,2,3-Trichlorobenzene	50.0	53.6		ug/Kg		107	82 - 135	4	20
1,2,4-Trichlorobenzene	50.0	50.8		ug/Kg		102	70 - 131	3	20
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	80 - 127	3	20
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	82 - 125	8	20
Trichloroethene	50.0	50.2		ug/Kg		100	81 - 133	6	20
Trichlorofluoromethane	50.0	53.6		ug/Kg		107	71 - 139	0	20
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	76 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.4		ug/Kg		103	70 - 130	3	20
1,2,4-Trimethylbenzene	50.0	48.2		ug/Kg		96	84 - 130	4	20
1,3,5-Trimethylbenzene	50.0	50.4		ug/Kg		101	82 - 131	4	20
Vinyl acetate	50.0	51.0		ug/Kg		102	38 - 176	6	20
Vinyl chloride	50.0	52.6		ug/Kg		105	63 - 140	0	20
m-Xylene & p-Xylene	100	91.8		ug/Kg		92	79 - 146	1	20
o-Xylene	50.0	47.0		ug/Kg		94	84 - 140	1	20
2,2-Dichloropropane	50.0	48.6		ug/Kg		97	73 - 162	5	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	98		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95698/5-A

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD Limit
							Limits	RPD	
Gasoline Range Organics (GRO) -C5-C12	1000	855		ug/Kg		86	61 - 128	11	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	95		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: 720-36325-1 MS

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: #3 NORTH

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	
				Result	Qualifier				Limits	RPD
Methyl tert-butyl ether	ND		48.2	44.3		ug/Kg		92	69 - 130	
Acetone	ND		241	254		ug/Kg		106	37 - 150	
Benzene	ND		48.2	44.9		ug/Kg		93	70 - 130	
Dichlorobromomethane	ND		48.2	42.6		ug/Kg		88	64 - 135	
Bromobenzene	ND		48.2	44.9		ug/Kg		93	70 - 130	
Chlorobromomethane	ND		48.2	45.1		ug/Kg		94	65 - 130	
Bromoform	ND		48.2	40.1		ug/Kg		83	58 - 132	
Bromomethane	ND		48.2	49.9		ug/Kg		104	56 - 130	
2-Butanone (MEK)	ND		241	259		ug/Kg		108	41 - 150	
n-Butylbenzene	ND		48.2	47.6		ug/Kg		99	60 - 145	
sec-Butylbenzene	ND		48.2	46.6		ug/Kg		97	64 - 137	
tert-Butylbenzene	ND		48.2	46.8		ug/Kg		97	63 - 134	
Carbon disulfide	ND		48.2	49.9		ug/Kg		104	10 - 150	
Carbon tetrachloride	ND		48.2	43.0		ug/Kg		89	54 - 130	
Chlorobenzene	ND		48.2	44.7		ug/Kg		93	70 - 130	
Chloroethane	ND		48.2	48.7		ug/Kg		101	61 - 130	
Chloroform	ND		48.2	43.4		ug/Kg		90	67 - 130	
Chloromethane	ND		48.2	50.3		ug/Kg		104	50 - 131	
2-Chlorotoluene	ND		48.2	45.9		ug/Kg		95	70 - 130	
4-Chlorotoluene	ND		48.2	43.2		ug/Kg		90	70 - 130	
Chlorodibromomethane	ND		48.2	39.1		ug/Kg		81	60 - 141	
1,2-Dichlorobenzene	ND		48.2	44.1		ug/Kg		92	70 - 130	
1,3-Dichlorobenzene	ND		48.2	45.3		ug/Kg		94	70 - 130	
1,4-Dichlorobenzene	ND		48.2	44.1		ug/Kg		92	70 - 130	
1,3-Dichloropropane	ND		48.2	42.2		ug/Kg		88	70 - 130	
1,1-Dichloropropene	ND		48.2	47.0		ug/Kg		98	67 - 130	
1,2-Dibromo-3-Chloropropane	ND		48.2	46.1		ug/Kg		96	57 - 130	
Ethylene Dibromide	ND		48.2	43.2		ug/Kg		90	66 - 135	
Dibromomethane	ND		48.2	42.0		ug/Kg		87	65 - 131	
Dichlorodifluoromethane	ND		48.2	51.6		ug/Kg		107	38 - 130	
1,1-Dichloroethane	ND		48.2	44.1		ug/Kg		92	67 - 130	
1,2-Dichloroethane	ND		48.2	40.1		ug/Kg		83	70 - 130	
1,1-Dichloroethene	ND		48.2	49.5		ug/Kg		103	64 - 130	
cis-1,2-Dichloroethene	ND		48.2	50.5		ug/Kg		105	68 - 131	
trans-1,2-Dichloroethene	ND		48.2	41.6		ug/Kg		86	70 - 130	
1,2-Dichloropropane	ND		48.2	41.0		ug/Kg		85	65 - 133	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36325-1 MS

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: #3 NORTH

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
cis-1,3-Dichloropropene	ND		48.2	40.7		ug/Kg		84	46 - 139	
trans-1,3-Dichloropropene	ND		48.2	40.1		ug/Kg		83	55 - 131	
Ethylbenzene	ND		48.2	44.9		ug/Kg		93	65 - 130	
Hexachlorobutadiene	ND		48.2	48.4		ug/Kg		100	58 - 132	
2-Hexanone	ND		241	217		ug/Kg		90	44 - 150	
Isopropylbenzene	ND		48.2	47.2		ug/Kg		98	65 - 130	
4-Isopropyltoluene	ND		48.2	46.6		ug/Kg		97	69 - 134	
Methylene Chloride	ND		48.2	45.1		ug/Kg		94	63 - 130	
4-Methyl-2-pentanone (MIBK)	ND		241	206		ug/Kg		86	51 - 140	
Naphthalene	ND		48.2	46.6		ug/Kg		97	45 - 146	
N-Propylbenzene	ND		48.2	43.5		ug/Kg		90	70 - 130	
Styrene	ND		48.2	44.3		ug/Kg		92	58 - 135	
1,1,1,2-Tetrachloroethane	ND		48.2	42.2		ug/Kg		88	64 - 133	
1,1,2,2-Tetrachloroethane	ND		48.2	40.3		ug/Kg		84	70 - 131	
Tetrachloroethene	ND		48.2	48.6		ug/Kg		101	67 - 130	
Toluene	ND		48.2	45.3		ug/Kg		94	70 - 130	
1,2,3-Trichlorobenzene	ND		48.2	48.0		ug/Kg		100	58 - 138	
1,2,4-Trichlorobenzene	ND		48.2	45.7		ug/Kg		95	49 - 144	
1,1,1-Trichloroethane	ND		48.2	45.9		ug/Kg		95	57 - 133	
1,1,2-Trichloroethane	ND		48.2	41.0		ug/Kg		85	68 - 132	
Trichloroethene	ND		48.2	48.9		ug/Kg		102	66 - 130	
Trichlorofluoromethane	ND		48.2	53.0		ug/Kg		110	61 - 130	
1,2,3-Trichloropropane	ND		48.2	43.0		ug/Kg		89	62 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.2	49.3		ug/Kg		102	52 - 130	
1,2,4-Trimethylbenzene	ND		48.2	44.5		ug/Kg		92	64 - 140	
1,3,5-Trimethylbenzene	ND		48.2	46.4		ug/Kg		96	67 - 134	
Vinyl acetate	ND		48.2	ND		ug/Kg		64	52 - 150	
Vinyl chloride	ND		48.2	52.4		ug/Kg		109	62 - 130	
m-Xylene & p-Xylene	ND		96.3	87.1		ug/Kg		90	70 - 130	
o-Xylene	ND		48.2	44.7		ug/Kg		93	68 - 130	
2,2-Dichloropropane	ND		48.2	47.2		ug/Kg		98	63 - 130	

Surrogate	MS MS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Lab Sample ID: 720-36325-1 MSD

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: #3 NORTH

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Methyl tert-butyl ether	ND		49.1	43.0		ug/Kg		88	69 - 130	3	20
Acetone	ND		246	295		ug/Kg		120	37 - 150	15	20
Benzene	ND		49.1	45.4		ug/Kg		92	70 - 130	1	20
Dichlorobromomethane	ND		49.1	41.8		ug/Kg		85	64 - 135	2	20
Bromobenzene	ND		49.1	45.4		ug/Kg		92	70 - 130	1	20
Chlorobromomethane	ND		49.1	44.0		ug/Kg		90	65 - 130	2	20
Bromoform	ND		49.1	39.9		ug/Kg		81	58 - 132	0	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36325-1 MSD

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: #3 NORTH

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Bromomethane	ND		49.1	48.5		ug/Kg		99	56 - 130	3	20	
2-Butanone (MEK)	ND		246	276		ug/Kg		112	41 - 150	6	20	
n-Butylbenzene	ND		49.1	52.1		ug/Kg		106	60 - 145	9	20	
sec-Butylbenzene	ND		49.1	50.5		ug/Kg		103	64 - 137	8	20	
tert-Butylbenzene	ND		49.1	49.7		ug/Kg		101	63 - 134	6	20	
Carbon disulfide	ND		49.1	51.3		ug/Kg		104	10 - 150	3	20	
Carbon tetrachloride	ND		49.1	44.4		ug/Kg		90	54 - 130	3	20	
Chlorobenzene	ND		49.1	45.6		ug/Kg		93	70 - 130	2	20	
Chloroethane	ND		49.1	49.3		ug/Kg		100	61 - 130	1	20	
Chloroform	ND		49.1	43.2		ug/Kg		88	67 - 130	0	20	
Chloromethane	ND		49.1	49.9		ug/Kg		102	50 - 131	1	20	
2-Chlorotoluene	ND		49.1	48.5		ug/Kg		99	70 - 130	6	20	
4-Chlorotoluene	ND		49.1	45.6		ug/Kg		93	70 - 130	5	20	
Chlorodibromomethane	ND		49.1	39.1		ug/Kg		80	60 - 141	0	20	
1,2-Dichlorobenzene	ND		49.1	45.2		ug/Kg		92	70 - 130	2	20	
1,3-Dichlorobenzene	ND		49.1	46.6		ug/Kg		95	70 - 130	3	20	
1,4-Dichlorobenzene	ND		49.1	45.4		ug/Kg		92	70 - 130	3	20	
1,3-Dichloropropane	ND		49.1	43.0		ug/Kg		88	70 - 130	2	20	
1,1-Dichloropropene	ND		49.1	49.5		ug/Kg		101	67 - 130	5	20	
1,2-Dibromo-3-Chloropropane	ND		49.1	49.5		ug/Kg		101	57 - 130	7	20	
Ethylene Dibromide	ND		49.1	44.0		ug/Kg		90	66 - 135	2	20	
Dibromomethane	ND		49.1	42.2		ug/Kg		86	65 - 131	1	20	
Dichlorodifluoromethane	ND		49.1	50.1		ug/Kg		102	38 - 130	3	20	
1,1-Dichloroethane	ND		49.1	44.6		ug/Kg		91	67 - 130	1	20	
1,2-Dichloroethane	ND		49.1	40.5		ug/Kg		82	70 - 130	1	20	
1,1-Dichloroethene	ND		49.1	50.5		ug/Kg		103	64 - 130	2	20	
cis-1,2-Dichloroethene	ND		49.1	51.5		ug/Kg		105	68 - 131	2	20	
trans-1,2-Dichloroethene	ND		49.1	41.7		ug/Kg		85	70 - 130	0	20	
1,2-Dichloropropane	ND		49.1	41.7		ug/Kg		85	65 - 133	1	20	
cis-1,3-Dichloropropene	ND		49.1	40.9		ug/Kg		83	46 - 139	1	20	
trans-1,3-Dichloropropene	ND		49.1	40.1		ug/Kg		82	55 - 131	0	20	
Ethylbenzene	ND		49.1	47.3		ug/Kg		96	65 - 130	5	20	
Hexachlorobutadiene	ND		49.1	51.5		ug/Kg		105	58 - 132	6	20	
2-Hexanone	ND		246	240		ug/Kg		98	44 - 150	10	20	
Isopropylbenzene	ND		49.1	49.9		ug/Kg		102	65 - 130	6	20	
4-Isopropyltoluene	ND		49.1	50.1		ug/Kg		102	69 - 134	7	20	
Methylene Chloride	ND		49.1	44.0		ug/Kg		90	63 - 130	2	20	
4-Methyl-2-pentanone (MIBK)	ND		246	228		ug/Kg		93	51 - 140	10	20	
Naphthalene	ND		49.1	49.1		ug/Kg		100	45 - 146	5	20	
N-Propylbenzene	ND		49.1	47.3		ug/Kg		96	70 - 130	8	20	
Styrene	ND		49.1	45.4		ug/Kg		92	58 - 135	2	20	
1,1,1,2-Tetrachloroethane	ND		49.1	42.6		ug/Kg		87	64 - 133	1	20	
1,1,2,2-Tetrachloroethane	ND		49.1	43.4		ug/Kg		88	70 - 131	8	20	
Tetrachloroethene	ND		49.1	50.3		ug/Kg		102	67 - 130	4	20	
Toluene	ND		49.1	47.2		ug/Kg		96	70 - 130	4	20	
1,2,3-Trichlorobenzene	ND		49.1	49.1		ug/Kg		100	58 - 138	2	20	
1,2,4-Trichlorobenzene	ND		49.1	46.8		ug/Kg		95	49 - 144	2	20	
1,1,1-Trichloroethane	ND		49.1	47.0		ug/Kg		96	57 - 133	2	20	
1,1,2-Trichloroethane	ND		49.1	42.2		ug/Kg		86	68 - 132	3	20	
Trichloroethene	ND		49.1	49.1		ug/Kg		100	66 - 130	0	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36325-1 MSD

Matrix: Solid

Analysis Batch: 95634

Client Sample ID: #3 NORTH

Prep Type: Total/NA

Prep Batch: 95698

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Trichlorofluoromethane	ND		49.1	51.5		ug/Kg		105	61 - 130	3	20
1,2,3-Trichloropropane	ND		49.1	47.2		ug/Kg		96	62 - 150	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.1	50.3		ug/Kg		102	52 - 130	2	20
1,2,4-Trimethylbenzene	ND		49.1	47.0		ug/Kg		96	64 - 140	5	20
1,3,5-Trimethylbenzene	ND		49.1	49.7		ug/Kg		101	67 - 134	7	20
Vinyl acetate	ND		49.1	ND		ug/Kg		58	52 - 150	9	20
Vinyl chloride	ND		49.1	52.1		ug/Kg		106	62 - 130	1	20
m-Xylene & p-Xylene	ND		98.2	92.3		ug/Kg		94	70 - 130	6	20
o-Xylene	ND		49.1	46.4		ug/Kg		94	68 - 130	4	20
2,2-Dichloropropane	ND		49.1	47.0		ug/Kg		96	63 - 130	1	20

Surrogate	MSD	MSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	94		45 - 131
1,2-Dichloroethane-d4 (Surr)	88		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-95653/1-A

Matrix: Solid

Analysis Batch: 95726

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 95653

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/21/11 09:57	07/22/11 11:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Capric Acid (Surr)	0.3		0 - 5	07/21/11 09:57	07/22/11 11:20	1
p-Terphenyl	101		38 - 148	07/21/11 09:57	07/22/11 11:20	1

Lab Sample ID: LCS 720-95653/2-A

Matrix: Solid

Analysis Batch: 95726

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 95653

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec.
		Result	Qualifier				Limits
Diesel Range Organics [C10-C28]	82.5	69.6		mg/Kg		84	50 - 150

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
p-Terphenyl	101		38 - 148

Lab Sample ID: LCSD 720-95653/3-A

Matrix: Solid

Analysis Batch: 95726

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 95653

Analyte	Spike Added	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	Limit
		Result	Qualifier				Limits		
Diesel Range Organics [C10-C28]	82.6	69.0		mg/Kg		84	50 - 150	1	35

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-95653/3-A

Matrix: Solid

Analysis Batch: 95726

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 95653

<i>Surrogate</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>% Recovery</i>	<i>Qualifier</i>	
<i>p-Terphenyl</i>	97		38 - 148

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QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

GC/MS VOA

Analysis Batch: 95634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95698/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95698
LCS 720-95698/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95698
LCSD 720-95698/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95698
LCS 720-95698/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95698
LCSD 720-95698/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95698
720-36325-1	#3 NORTH	Total/NA	Solid	8260B/CA_LUFT MS	95698
720-36325-2	#1 BASE 1	Total/NA	Solid	8260B/CA_LUFT MS	95698
720-36325-3	#3 NORTH (SAMPLE)	Total/NA	Solid	8260B/CA_LUFT MS	95698
720-36325-1 MS	#3 NORTH	Total/NA	Solid	8260B/CA_LUFT MS	95698
720-36325-1 MSD	#3 NORTH	Total/NA	Solid	8260B/CA_LUFT MS	95698

Prep Batch: 95698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95698/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95698/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95698/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95698/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95698/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36325-1	#3 NORTH	Total/NA	Solid	5030B	
720-36325-1 MS	#3 NORTH	Total/NA	Solid	5030B	
720-36325-1 MSD	#3 NORTH	Total/NA	Solid	5030B	
720-36325-2	#1 BASE 1	Total/NA	Solid	5030B	
720-36325-3	#3 NORTH (SAMPLE)	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 95653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95653/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-95653/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-95653/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36325-1	#3 NORTH	Silica Gel Cleanup	Solid	3546	
720-36325-2	#1 BASE 1	Silica Gel Cleanup	Solid	3546	
720-36325-3	#3 NORTH (SAMPLE)	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 95726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-95653/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	95653
LCSD 720-95653/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	95653
MB 720-95653/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	95653

Analysis Batch: 95727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36325-1	#3 NORTH	Silica Gel Cleanup	Solid	8015B	95653

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

GC Semi VOA (Continued)

Analysis Batch: 95727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36325-2	#1 BASE 1	Silica Gel Cleanup	Solid	8015B	95653
720-36325-3	#3 NORTH (SAMPLE)	Silica Gel Cleanup	Solid	8015B	95653

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Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Client Sample ID: #3 NORTH

Lab Sample ID: 720-36325-1

Date Collected: 07/15/11 07:40

Matrix: Solid

Date Received: 07/15/11 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95698	07/21/11 08:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95634	07/21/11 13:57	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95727	07/22/11 11:44	DH	TAL SF

Client Sample ID: #1 BASE 1

Lab Sample ID: 720-36325-2

Date Collected: 07/15/11 12:45

Matrix: Solid

Date Received: 07/15/11 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95698	07/21/11 08:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95634	07/21/11 16:32	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95727	07/22/11 12:07	DH	TAL SF

Client Sample ID: #3 NORTH (SAMPLE)

Lab Sample ID: 720-36325-3

Date Collected: 07/15/11 07:45

Matrix: Solid

Date Received: 07/15/11 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95698	07/21/11 08:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95634	07/21/11 17:03	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		10	95727	07/22/11 13:02	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36325-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36325-1	#3 NORTH	Solid	07/15/11 07:40	07/15/11 14:55
720-36325-2	#1 BASE 1	Solid	07/15/11 12:45	07/15/11 14:55
720-36325-3	#3 NORTH (SAMPLE)	Solid	07/15/11 07:45	07/15/11 14:55

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Report To **Analysis Request**

Attn: Richard Gandolfo
 Company: ENGEO
 Address:
 Phone: _____ Email: _____
 Bill To: _____ Sampled By: R. Gandolfo
 Attn: _____ Phone: _____

Sample ID	Date	Time	Mat. rx	Preserv	TPH EPA - <input checked="" type="checkbox"/> 8260B <input checked="" type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	TEPH EPA 8015M* Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other _____	EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDBD Ethanol	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____	Low Level Metals by EPA 200.8/6020 (ICP-MS): <input type="checkbox"/> W.E.T (STLG) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H ₂ O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
# 3 North	7/15/11	7:40	S	ice	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
# 1 Base 1		12:45			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1
# 3 North (sample)		7:40			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1

Project Info	Sample Receipt
Project Name: <u>Macedo Remediation</u>	# of Containers: <u>3</u>
Project#: <u>7380.000.003</u>	Head Space: <u>4.28</u>
PO#:	Temp:
Credit Card#:	Conforms to record:

1) Relinquished by:
[Signature] 14:55
 Signature _____ Time _____
Richard Gandolfo 7/15/11
 Printed Name _____ Date _____
ENGEO
 Company _____

2) Relinquished by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

3) Relinquished by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

TA 5 Day 3 Day 2 Day 1 Day
 Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
 Special Instructions / Comments: _____ Global ID _____

1) Received by:
[Signature] 14:55
 Signature _____ Time _____
Richard Gandolfo 7/15/11
 Printed Name _____ Date _____
TESTA
 Company _____

2) Received by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

3) Received by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36325-1

Login Number: 36325

List Source: TestAmerica San Francisco

List Number: 1

Creator: Apostol, Anita

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36240-1
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, California 95366-9502

Attn: Mr. Richard Gandolfo



Authorized for release by:
07/22/2011 07:59:14 AM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Job ID: 720-36240-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36240-1

Comments

No additional comments.

Receipt

Second page of coc sample date is 7-12-11. All sample containers have 7-13-11. Logged as 7-13-11.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: Internal standard 1,4-dichlorobenzene-d4 response was outside of acceptance limits for the following samples 720-36240-1, 2, 3, 4, 5, 14. The samples show evidence of matrix interference; confirmed by re-analysis.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 95374 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-36240-14 MS), (720-36240-14 MSD), #2 WEST (720-36240-14).

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: #2 SOUTH (720-36240-12), #5 BASE (720-36240-5), #5 EAST (720-36240-3), #5 NORTH (720-36240-1), #5 SOUTH (720-36240-2), #5 WEST (720-36240-4).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Client Sample ID: #5 NORTH

Lab Sample ID: 720-36240-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		48		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	590		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: #5 SOUTH

Lab Sample ID: 720-36240-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	460		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: #5 EAST

Lab Sample ID: 720-36240-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	58		48		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	620		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: #5 WEST

Lab Sample ID: 720-36240-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	58		50		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	550		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: #5 BASE

Lab Sample ID: 720-36240-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		48		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	580		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: #4 NORTH

Lab Sample ID: 720-36240-6

No Detections.

Client Sample ID: #4 SOUTH

Lab Sample ID: 720-36240-7

No Detections.

Client Sample ID: #4 EAST

Lab Sample ID: 720-36240-8

No Detections.

Client Sample ID: #4 WEST

Lab Sample ID: 720-36240-9

No Detections.

Client Sample ID: #4 BASE

Lab Sample ID: 720-36240-10

No Detections.

Client Sample ID: #2 NORTH

Lab Sample ID: 720-36240-11

No Detections.

Client Sample ID: #2 SOUTH

Lab Sample ID: 720-36240-12

Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Client Sample ID: #2 SOUTH (Continued)

Lab Sample ID: 720-36240-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		50		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	460		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: #2 EAST

Lab Sample ID: 720-36240-13

No Detections.

Client Sample ID: #2 WEST

Lab Sample ID: 720-36240-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		49		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	450		20		mg/Kg	20		8015B	Silica Gel Clear

Client Sample ID: #2 BASE

Lab Sample ID: 720-36240-15

No Detections.

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: #5 NORTH
Date Collected: 07/13/11 08:00
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Acetone	130		48		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Benzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Bromobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Chlorobromomethane	ND		19		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Bromoform	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Bromomethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
2-Butanone (MEK)	ND		48		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
n-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Carbon disulfide	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Chlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Chloroethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Chloroform	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Chloromethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Dibromomethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Ethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
2-Hexanone	ND		48		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Isopropylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Methylene Chloride	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Naphthalene	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
N-Propylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Styrene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #5 NORTH
Date Collected: 07/13/11 08:00
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Tetrachloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Toluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Trichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Vinyl acetate	ND		48		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Vinyl chloride	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Xylenes, Total	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 13:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/19/11 08:30	07/19/11 13:31	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		45 - 131	07/19/11 08:30	07/19/11 13:31	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	07/19/11 08:30	07/19/11 13:31	1
Toluene-d8 (Surr)	88		58 - 140	07/19/11 08:30	07/19/11 13:31	1

Client Sample ID: #5 SOUTH
Date Collected: 07/13/11 08:10
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Acetone	ND		47		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Benzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Dichlorobromomethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Bromobenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Chlorobromomethane	ND		19		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Bromoform	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Bromomethane	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
2-Butanone (MEK)	ND		47		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
n-Butylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
sec-Butylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
tert-Butylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Carbon disulfide	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Carbon tetrachloride	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Chlorobenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Chloroethane	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Chloroform	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Chloromethane	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
2-Chlorotoluene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
4-Chlorotoluene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #5 SOUTH
Date Collected: 07/13/11 08:10
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,3-Dichloropropane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1-Dichloropropene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Ethylene Dibromide	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Dibromomethane	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1-Dichloroethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2-Dichloroethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1-Dichloroethene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2-Dichloropropane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Ethylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Hexachlorobutadiene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
2-Hexanone	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Isopropylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
4-Isopropyltoluene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Methylene Chloride	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Naphthalene	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
N-Propylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Styrene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Tetrachloroethene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Toluene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Trichloroethene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Trichlorofluoromethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Vinyl acetate	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Vinyl chloride	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Xylenes, Total	ND		9.4		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
2,2-Dichloropropane	ND		4.7		ug/Kg		07/19/11 08:30	07/19/11 14:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/19/11 08:30	07/19/11 14:30	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		45 - 131	07/19/11 08:30	07/19/11 14:30	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140	07/19/11 08:30	07/19/11 14:30	1
Toluene-d8 (Surr)	89		58 - 140	07/19/11 08:30	07/19/11 14:30	1

Client Sample ID: #5 EAST
Date Collected: 07/13/11 08:05
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Acetone	58		48		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Benzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Bromobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Chlorobromomethane	ND		19		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Bromoform	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Bromomethane	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
2-Butanone (MEK)	ND		48		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
n-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Carbon disulfide	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Chlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Chloroethane	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Chloroform	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Chloromethane	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Dibromomethane	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Ethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
2-Hexanone	ND		48		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Isopropylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Methylene Chloride	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #5 EAST
Date Collected: 07/13/11 08:05
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Naphthalene	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
N-Propylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Styrene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Tetrachloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Toluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Trichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Vinyl acetate	ND		48		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Vinyl chloride	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Xylenes, Total	ND		9.6		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 14:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/19/11 08:30	07/19/11 14:59	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		45 - 131	07/19/11 08:30	07/19/11 14:59	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140	07/19/11 08:30	07/19/11 14:59	1
Toluene-d8 (Surr)	90		58 - 140	07/19/11 08:30	07/19/11 14:59	1

Client Sample ID: #5 WEST
Date Collected: 07/13/11 08:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Acetone	58		50		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Benzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Bromobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Chlorobromomethane	ND		20		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Bromoform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Bromomethane	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
2-Butanone (MEK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
n-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Carbon disulfide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Chlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #5 WEST
Date Collected: 07/13/11 08:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Chloroform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Chloromethane	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Dibromomethane	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Ethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
2-Hexanone	ND		50		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Isopropylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Methylene Chloride	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Naphthalene	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
N-Propylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Styrene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Tetrachloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Toluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Trichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Vinyl acetate	ND		50		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Vinyl chloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #5 WEST
Date Collected: 07/13/11 08:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		9.9		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/19/11 08:30	07/19/11 15:28	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131				07/19/11 08:30	07/19/11 15:28	1
1,2-Dichloroethane-d4 (Surr)	104		60 - 140				07/19/11 08:30	07/19/11 15:28	1
Toluene-d8 (Surr)	91		58 - 140				07/19/11 08:30	07/19/11 15:28	1

Client Sample ID: #5 BASE
Date Collected: 07/13/11 08:15
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Acetone	130		48		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Benzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Bromobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Chlorobromomethane	ND		19		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Bromoform	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Bromomethane	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
2-Butanone (MEK)	ND		48		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
n-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Carbon disulfide	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Chlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Chloroethane	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Chloroform	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Chloromethane	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Dibromomethane	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #5 BASE
Date Collected: 07/13/11 08:15
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Ethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
2-Hexanone	ND		48		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Isopropylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Methylene Chloride	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Naphthalene	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
N-Propylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Styrene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Tetrachloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Toluene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Trichloroethene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Vinyl acetate	ND		48		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Vinyl chloride	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Xylenes, Total	ND		9.5		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/19/11 08:30	07/19/11 15:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/19/11 08:30	07/19/11 15:57	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	80		45 - 131	07/19/11 08:30	07/19/11 15:57	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140	07/19/11 08:30	07/19/11 15:57	1
Toluene-d8 (Surr)	91		58 - 140	07/19/11 08:30	07/19/11 15:57	1

Client Sample ID: #4 NORTH
Date Collected: 07/13/11 11:46
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Acetone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Benzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Bromobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 00:25	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
 Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #4 NORTH
Date Collected: 07/13/11 11:46
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Bromomethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
2-Butanone (MEK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
n-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Carbon disulfide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Chlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Chloroethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Chloroform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Chloromethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Dibromomethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Ethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
2-Hexanone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Isopropylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Methylene Chloride	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Naphthalene	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
N-Propylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Styrene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Tetrachloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Toluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #4 NORTH
Date Collected: 07/13/11 11:46
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Trichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Vinyl acetate	ND		48		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Vinyl chloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Xylenes, Total	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/15/11 18:29	07/16/11 00:25	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131				07/15/11 18:29	07/16/11 00:25	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 140				07/15/11 18:29	07/16/11 00:25	1
Toluene-d8 (Surr)	96		58 - 140				07/15/11 18:29	07/16/11 00:25	1

Client Sample ID: #4 SOUTH
Date Collected: 07/13/11 11:40
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Acetone	ND		47		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Benzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Dichlorobromomethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Bromobenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Bromoform	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Bromomethane	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
2-Butanone (MEK)	ND		47		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
n-Butylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
sec-Butylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
tert-Butylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Carbon disulfide	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Carbon tetrachloride	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Chlorobenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Chloroethane	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Chloroform	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Chloromethane	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
2-Chlorotoluene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
4-Chlorotoluene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Chlorodibromomethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,3-Dichloropropane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1-Dichloropropene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #4 SOUTH
Date Collected: 07/13/11 11:40
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Ethylene Dibromide	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Dibromomethane	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1-Dichloroethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,2-Dichloroethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1-Dichloroethene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,2-Dichloropropane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Ethylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Hexachlorobutadiene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
2-Hexanone	ND		47		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Isopropylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
4-Isopropyltoluene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Methylene Chloride	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Naphthalene	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
N-Propylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Styrene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Tetrachloroethene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Toluene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Trichloroethene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Trichlorofluoromethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Vinyl acetate	ND		47		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Vinyl chloride	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Xylenes, Total	ND		9.4		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
2,2-Dichloropropane	ND		4.7		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		07/15/11 18:29	07/16/11 00:54	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131				07/15/11 18:29	07/16/11 00:54	1
1,2-Dichloroethane-d4 (Surr)	87		60 - 140				07/15/11 18:29	07/16/11 00:54	1
Toluene-d8 (Surr)	96		58 - 140				07/15/11 18:29	07/16/11 00:54	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: #4 EAST
Date Collected: 07/13/11 11:48
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Acetone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Benzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Bromobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Bromoform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Bromomethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
2-Butanone (MEK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
n-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Carbon disulfide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Chlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Chloroethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Chloroform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Chloromethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Dibromomethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Ethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
2-Hexanone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Isopropylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Methylene Chloride	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Naphthalene	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
N-Propylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Styrene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #4 EAST

Date Collected: 07/13/11 11:48

Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-8

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Tetrachloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Toluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Trichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Vinyl acetate	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Vinyl chloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Xylenes, Total	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/15/11 18:29	07/16/11 01:23	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	07/15/11 18:29	07/16/11 01:23	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	07/15/11 18:29	07/16/11 01:23	1
Toluene-d8 (Surr)	97		58 - 140	07/15/11 18:29	07/16/11 01:23	1

Client Sample ID: #4 WEST

Date Collected: 07/13/11 11:38

Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-9

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Acetone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Benzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Bromobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Bromoform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Bromomethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
2-Butanone (MEK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
n-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Carbon disulfide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Chlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Chloroethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Chloroform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Chloromethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #4 WEST
Date Collected: 07/13/11 11:38
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Dibromomethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Ethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
2-Hexanone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Isopropylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Methylene Chloride	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Naphthalene	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
N-Propylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Styrene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Tetrachloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Toluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Trichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Vinyl acetate	ND		48		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Vinyl chloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Xylenes, Total	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 01:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/15/11 18:29	07/16/11 01:51	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	07/15/11 18:29	07/16/11 01:51	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140	07/15/11 18:29	07/16/11 01:51	1
Toluene-d8 (Surr)	97		58 - 140	07/15/11 18:29	07/16/11 01:51	1

Client Sample ID: #4 BASE
Date Collected: 07/13/11 13:00
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Acetone	ND		49		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Benzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Dichlorobromomethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Bromobenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Bromoform	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Bromomethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
2-Butanone (MEK)	ND		49		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
n-Butylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
sec-Butylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
tert-Butylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Carbon disulfide	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Carbon tetrachloride	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Chlorobenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Chloroethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Chloroform	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Chloromethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
2-Chlorotoluene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
4-Chlorotoluene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Chlorodibromomethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,3-Dichloropropane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1-Dichloropropene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Ethylene Dibromide	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Dibromomethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1-Dichloroethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2-Dichloroethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1-Dichloroethene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2-Dichloropropane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Ethylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Hexachlorobutadiene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
2-Hexanone	ND		49		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Isopropylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
4-Isopropyltoluene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Methylene Chloride	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #4 BASE
Date Collected: 07/13/11 13:00
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Naphthalene	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
N-Propylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Styrene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Tetrachloroethene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Toluene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Trichloroethene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Trichlorofluoromethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Vinyl acetate	ND		49		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Vinyl chloride	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Xylenes, Total	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
2,2-Dichloropropane	ND		4.9		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/15/11 18:29	07/16/11 03:18	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131				07/15/11 18:29	07/16/11 03:18	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140				07/15/11 18:29	07/16/11 03:18	1
Toluene-d8 (Surr)	96		58 - 140				07/15/11 18:29	07/16/11 03:18	1

Client Sample ID: #2 NORTH
Date Collected: 07/13/11 10:23
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Acetone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Benzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Bromobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Bromoform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Bromomethane	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
2-Butanone (MEK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
n-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Carbon disulfide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Chlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #2 NORTH
Date Collected: 07/13/11 10:23
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Chloroform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Chloromethane	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Dibromomethane	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Ethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
2-Hexanone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Isopropylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Methylene Chloride	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Naphthalene	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
N-Propylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Styrene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Tetrachloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Toluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Trichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Vinyl acetate	ND		48		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Vinyl chloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #2 NORTH
Date Collected: 07/13/11 10:23
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		9.5		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/15/11 18:29	07/16/11 03:47	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131				07/15/11 18:29	07/16/11 03:47	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140				07/15/11 18:29	07/16/11 03:47	1
Toluene-d8 (Surr)	96		58 - 140				07/15/11 18:29	07/16/11 03:47	1

Client Sample ID: #2 SOUTH
Date Collected: 07/13/11 10:25
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Acetone	120		50		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Benzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Bromobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Chlorobromomethane	ND		20		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Bromoform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Bromomethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
2-Butanone (MEK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
n-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Carbon disulfide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Chlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Chloroethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Chloroform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Chloromethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Dibromomethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #2 SOUTH
Date Collected: 07/13/11 10:25
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Ethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
2-Hexanone	ND		50		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Isopropylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Methylene Chloride	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Naphthalene	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
N-Propylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Styrene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Tetrachloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Toluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Trichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Vinyl acetate	ND		50		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Vinyl chloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Xylenes, Total	ND		10		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 16:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/19/11 08:30	07/19/11 16:26	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		45 - 131	07/19/11 08:30	07/19/11 16:26	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140	07/19/11 08:30	07/19/11 16:26	1
Toluene-d8 (Surr)	91		58 - 140	07/19/11 08:30	07/19/11 16:26	1

Client Sample ID: #2 EAST
Date Collected: 07/13/11 10:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Acetone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Benzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Bromobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 04:44	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #2 EAST
Date Collected: 07/13/11 10:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Bromomethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
2-Butanone (MEK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
n-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Carbon disulfide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Chlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Chloroethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Chloroform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Chloromethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Dibromomethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Ethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
2-Hexanone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Isopropylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Methylene Chloride	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Naphthalene	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
N-Propylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Styrene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Tetrachloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Toluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #2 EAST
Date Collected: 07/13/11 10:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Trichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Vinyl acetate	ND		48		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Vinyl chloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Xylenes, Total	ND		9.7		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/15/11 18:29	07/16/11 04:44	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131				07/15/11 18:29	07/16/11 04:44	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 140				07/15/11 18:29	07/16/11 04:44	1
Toluene-d8 (Surr)	96		58 - 140				07/15/11 18:29	07/16/11 04:44	1

Client Sample ID: #2 WEST
Date Collected: 07/13/11 10:24
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Acetone	110		49		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Benzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Dichlorobromomethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Bromobenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Chlorobromomethane	ND		19		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Bromoform	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Bromomethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
2-Butanone (MEK)	ND		49		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
n-Butylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
sec-Butylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
tert-Butylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Carbon disulfide	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Carbon tetrachloride	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Chlorobenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Chloroethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Chloroform	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Chloromethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
2-Chlorotoluene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
4-Chlorotoluene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Chlorodibromomethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,3-Dichloropropane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1-Dichloropropene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #2 WEST
Date Collected: 07/13/11 10:24
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Ethylene Dibromide	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Dibromomethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1-Dichloroethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,2-Dichloroethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1-Dichloroethene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,2-Dichloropropane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Ethylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Hexachlorobutadiene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
2-Hexanone	ND		49		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Isopropylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
4-Isopropyltoluene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Methylene Chloride	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Naphthalene	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
N-Propylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Styrene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Tetrachloroethene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Toluene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Trichloroethene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Trichlorofluoromethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Vinyl acetate	ND		49		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Vinyl chloride	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Xylenes, Total	ND		9.7		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
2,2-Dichloropropane	ND		4.9		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/19/11 08:30	07/19/11 18:24	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		45 - 131				07/19/11 08:30	07/19/11 18:24	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140				07/19/11 08:30	07/19/11 18:24	1
Toluene-d8 (Surr)	88		58 - 140				07/19/11 08:30	07/19/11 18:24	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: #2 BASE
Date Collected: 07/13/11 10:15
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Acetone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Benzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Bromobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Chlorobromomethane	ND		19		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Bromoform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Bromomethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
2-Butanone (MEK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
n-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Carbon disulfide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Chlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Chloroethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Chloroform	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Chloromethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Dibromomethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Ethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
2-Hexanone	ND		48		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Isopropylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Methylene Chloride	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Naphthalene	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
N-Propylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Styrene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: #2 BASE
Date Collected: 07/13/11 10:15
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Tetrachloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Toluene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Trichloroethene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Vinyl acetate	ND		48		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Vinyl chloride	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Xylenes, Total	ND		9.6		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/15/11 18:29	07/16/11 05:42	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131				07/15/11 18:29	07/16/11 05:42	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 140				07/15/11 18:29	07/16/11 05:42	1
Toluene-d8 (Surr)	97		58 - 140				07/15/11 18:29	07/16/11 05:42	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: #5 NORTH
Date Collected: 07/13/11 08:00
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	590		20		mg/Kg		07/19/11 13:33	07/20/11 16:29	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/19/11 13:33	07/20/11 16:29	20
p-Terphenyl	0	D	50 - 150				07/19/11 13:33	07/20/11 16:29	20

Client Sample ID: #5 SOUTH
Date Collected: 07/13/11 08:10
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	460		20		mg/Kg		07/19/11 13:33	07/20/11 16:53	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/19/11 13:33	07/20/11 16:53	20
p-Terphenyl	0	D	50 - 150				07/19/11 13:33	07/20/11 16:53	20

Client Sample ID: #5 EAST
Date Collected: 07/13/11 08:05
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	620		20		mg/Kg		07/19/11 13:33	07/20/11 17:41	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/19/11 13:33	07/20/11 17:41	20
p-Terphenyl	0	D	50 - 150				07/19/11 13:33	07/20/11 17:41	20

Client Sample ID: #5 WEST
Date Collected: 07/13/11 08:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	550		20		mg/Kg		07/19/11 13:33	07/20/11 18:06	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/19/11 13:33	07/20/11 18:06	20
p-Terphenyl	0	D	50 - 150				07/19/11 13:33	07/20/11 18:06	20

Client Sample ID: #5 BASE
Date Collected: 07/13/11 08:15
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	580		20		mg/Kg		07/19/11 13:33	07/20/11 18:54	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/19/11 13:33	07/20/11 18:54	20
p-Terphenyl	0	D	50 - 150				07/19/11 13:33	07/20/11 18:54	20

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: #4 NORTH
Date Collected: 07/13/11 11:46
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/19/11 13:33	07/20/11 14:55	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/19/11 13:33	07/20/11 14:55	1
p-Terphenyl	80		50 - 150				07/19/11 13:33	07/20/11 14:55	1

Client Sample ID: #4 SOUTH
Date Collected: 07/13/11 11:40
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/18/11 08:55	07/19/11 15:44	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.03		0 - 5				07/18/11 08:55	07/19/11 15:44	1
p-Terphenyl	94		50 - 150				07/18/11 08:55	07/19/11 15:44	1

Client Sample ID: #4 EAST
Date Collected: 07/13/11 11:48
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/19/11 13:33	07/20/11 15:19	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/19/11 13:33	07/20/11 15:19	1
p-Terphenyl	82		50 - 150				07/19/11 13:33	07/20/11 15:19	1

Client Sample ID: #4 WEST
Date Collected: 07/13/11 11:38
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/19/11 13:33	07/20/11 15:42	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/19/11 13:33	07/20/11 15:42	1
p-Terphenyl	92		50 - 150				07/19/11 13:33	07/20/11 15:42	1

Client Sample ID: #4 BASE
Date Collected: 07/13/11 13:00
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/19/11 13:33	07/20/11 16:06	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/19/11 13:33	07/20/11 16:06	1
p-Terphenyl	90		50 - 150				07/19/11 13:33	07/20/11 16:06	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: #2 NORTH
Date Collected: 07/13/11 10:23
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/19/11 13:33	07/20/11 16:29	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/19/11 13:33	07/20/11 16:29	1
p-Terphenyl	80		50 - 150				07/19/11 13:33	07/20/11 16:29	1

Client Sample ID: #2 SOUTH
Date Collected: 07/13/11 10:25
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	460		20		mg/Kg		07/19/11 13:33	07/20/11 19:19	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/19/11 13:33	07/20/11 19:19	20
p-Terphenyl	0	D	50 - 150				07/19/11 13:33	07/20/11 19:19	20

Client Sample ID: #2 EAST
Date Collected: 07/13/11 10:20
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-13
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/19/11 13:33	07/20/11 16:53	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/19/11 13:33	07/20/11 16:53	1
p-Terphenyl	85		50 - 150				07/19/11 13:33	07/20/11 16:53	1

Client Sample ID: #2 WEST
Date Collected: 07/13/11 10:24
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-14
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	450		20		mg/Kg		07/18/11 08:55	07/19/11 13:03	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/18/11 08:55	07/19/11 13:03	20
p-Terphenyl	0	D	50 - 150				07/18/11 08:55	07/19/11 13:03	20

Client Sample ID: #2 BASE
Date Collected: 07/13/11 10:15
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36240-15
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		07/19/11 13:33	07/20/11 17:16	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 5				07/19/11 13:33	07/20/11 17:16	1
p-Terphenyl	84		50 - 150				07/19/11 13:33	07/20/11 17:16	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-95379/1-A
Matrix: Solid
Analysis Batch: 95307

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95379

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Acetone	ND		50		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Benzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Bromobenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Chlorobromomethane	ND		20		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Bromoform	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Bromomethane	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
2-Butanone (MEK)	ND		50		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
n-Butylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Carbon disulfide	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Chlorobenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Chloroethane	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Chloroform	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Chloromethane	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Dibromomethane	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Ethylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
2-Hexanone	ND		50		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Isopropylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Methylene Chloride	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Naphthalene	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
N-Propylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Styrene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95379/1-A

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95379

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Tetrachloroethene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Toluene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Trichloroethene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Vinyl acetate	ND		50		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Vinyl chloride	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
o-Xylene	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Xylenes, Total	ND		10		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/15/11 18:29	07/15/11 19:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/15/11 18:29	07/15/11 19:37	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	95		45 - 131	07/15/11 18:29	07/15/11 19:37	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 140	07/15/11 18:29	07/15/11 19:37	1
Toluene-d8 (Surr)	97		58 - 140	07/15/11 18:29	07/15/11 19:37	1

Lab Sample ID: LCS 720-95379/2-A

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	49.8		ug/Kg		100	71 - 144
Acetone	250	154		ug/Kg		62	30 - 162
Benzene	50.0	51.0		ug/Kg		102	82 - 124
Dichlorobromomethane	50.0	50.6		ug/Kg		101	86 - 131
Bromobenzene	50.0	51.8		ug/Kg		104	88 - 120
Chlorobromomethane	50.0	53.0		ug/Kg		106	81 - 116
Bromoform	50.0	52.0		ug/Kg		104	59 - 158
Bromomethane	50.0	52.2		ug/Kg		104	59 - 132
2-Butanone (MEK)	250	209		ug/Kg		84	61 - 150
n-Butylbenzene	50.0	52.4		ug/Kg		105	80 - 142
sec-Butylbenzene	50.0	50.4		ug/Kg		101	85 - 136
tert-Butylbenzene	50.0	49.8		ug/Kg		100	71 - 130
Carbon disulfide	50.0	47.2		ug/Kg		94	60 - 136
Carbon tetrachloride	50.0	49.2		ug/Kg		98	81 - 138
Chlorobenzene	50.0	50.8		ug/Kg		102	87 - 113
Chloroethane	50.0	48.0		ug/Kg		96	69 - 141
Chloroform	50.0	47.4		ug/Kg		95	77 - 127
Chloromethane	50.0	44.0		ug/Kg		88	60 - 149

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95379/2-A

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec. Limits
	Added	Result	Qualifier				
2-Chlorotoluene	50.0	49.4		ug/Kg		99	80 - 138
4-Chlorotoluene	50.0	48.6		ug/Kg		97	79 - 136
Chlorodibromomethane	50.0	54.8		ug/Kg		110	75 - 146
1,2-Dichlorobenzene	50.0	50.8		ug/Kg		102	84 - 130
1,3-Dichlorobenzene	50.0	51.4		ug/Kg		103	84 - 131
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	85 - 125
1,3-Dichloropropane	50.0	53.4		ug/Kg		107	79 - 140
1,1-Dichloropropene	50.0	49.8		ug/Kg		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.6		ug/Kg		105	68 - 145
Ethylene Dibromide	50.0	55.6		ug/Kg		111	79 - 140
Dibromomethane	50.0	52.0		ug/Kg		104	80 - 139
Dichlorodifluoromethane	50.0	41.4		ug/Kg		83	37 - 158
1,1-Dichloroethane	50.0	47.0		ug/Kg		94	85 - 124
1,2-Dichloroethane	50.0	44.8		ug/Kg		90	72 - 130
1,1-Dichloroethene	50.0	45.6		ug/Kg		91	76 - 122
cis-1,2-Dichloroethene	50.0	55.0		ug/Kg		110	87 - 138
trans-1,2-Dichloroethene	50.0	39.8		ug/Kg		80	67 - 108
1,2-Dichloropropane	50.0	50.0		ug/Kg		100	73 - 127
cis-1,3-Dichloropropene	50.0	51.2		ug/Kg		102	68 - 147
trans-1,3-Dichloropropene	50.0	53.2		ug/Kg		106	84 - 136
Ethylbenzene	50.0	50.4		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	51.6		ug/Kg		103	72 - 132
2-Hexanone	250	206		ug/Kg		83	60 - 161
Isopropylbenzene	50.0	50.8		ug/Kg		102	88 - 128
4-Isopropyltoluene	50.0	51.4		ug/Kg		103	85 - 133
Methylene Chloride	50.0	45.8		ug/Kg		92	72 - 134
4-Methyl-2-pentanone (MIBK)	250	233		ug/Kg		93	69 - 160
Naphthalene	50.0	59.6		ug/Kg		119	70 - 147
N-Propylbenzene	50.0	48.2		ug/Kg		96	72 - 125
Styrene	50.0	52.8		ug/Kg		106	89 - 126
1,1,1,2-Tetrachloroethane	50.0	50.8		ug/Kg		102	90 - 130
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/Kg		102	82 - 146
Tetrachloroethene	50.0	51.0		ug/Kg		102	78 - 132
Toluene	50.0	51.0		ug/Kg		102	83 - 128
1,2,3-Trichlorobenzene	50.0	56.8		ug/Kg		114	82 - 135
1,2,4-Trichlorobenzene	50.0	53.6		ug/Kg		107	70 - 131
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	80 - 127
1,1,2-Trichloroethane	50.0	53.6		ug/Kg		107	82 - 125
Trichloroethene	50.0	51.8		ug/Kg		104	81 - 133
Trichlorofluoromethane	50.0	47.6		ug/Kg		95	71 - 139
1,2,3-Trichloropropane	50.0	52.6		ug/Kg		105	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.0		ug/Kg		98	70 - 130
1,2,4-Trimethylbenzene	50.0	49.2		ug/Kg		98	84 - 130
1,3,5-Trimethylbenzene	50.0	50.6		ug/Kg		101	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		95	38 - 176
Vinyl chloride	50.0	42.8		ug/Kg		86	63 - 140
m-Xylene & p-Xylene	100	98.0		ug/Kg		98	79 - 146
o-Xylene	50.0	49.6		ug/Kg		99	84 - 140
2,2-Dichloropropane	50.0	47.6		ug/Kg		95	73 - 162

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95379/2-A

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95379

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	95		45 - 131
1,2-Dichloroethane-d4 (Surr)	85		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCS 720-95379/4-A

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO) -C5-C12	1000	848		ug/Kg		85	61 - 128	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCSD 720-95379/3-A

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Methyl tert-butyl ether	50.0	52.6		ug/Kg		105	71 - 144	5	20	
Acetone	250	188		ug/Kg		75	30 - 162	20	30	
Benzene	50.0	51.0		ug/Kg		102	82 - 124	0	20	
Dichlorobromomethane	50.0	52.6		ug/Kg		105	86 - 131	4	20	
Bromobenzene	50.0	52.0		ug/Kg		104	88 - 120	0	20	
Chlorobromomethane	50.0	54.6		ug/Kg		109	81 - 116	3	20	
Bromoform	50.0	53.2		ug/Kg		106	59 - 158	2	20	
Bromomethane	50.0	51.2		ug/Kg		102	59 - 132	2	20	
2-Butanone (MEK)	250	234		ug/Kg		94	61 - 150	11	20	
n-Butylbenzene	50.0	50.4		ug/Kg		101	80 - 142	4	20	
sec-Butylbenzene	50.0	48.4		ug/Kg		97	85 - 136	4	20	
tert-Butylbenzene	50.0	48.2		ug/Kg		96	71 - 130	3	20	
Carbon disulfide	50.0	46.0		ug/Kg		92	60 - 136	3	20	
Carbon tetrachloride	50.0	48.0		ug/Kg		96	81 - 138	2	20	
Chlorobenzene	50.0	49.4		ug/Kg		99	87 - 113	3	20	
Chloroethane	50.0	47.0		ug/Kg		94	69 - 141	2	20	
Chloroform	50.0	47.4		ug/Kg		95	77 - 127	0	20	
Chloromethane	50.0	41.6		ug/Kg		83	60 - 149	6	20	
2-Chlorotoluene	50.0	48.4		ug/Kg		97	80 - 138	2	20	
4-Chlorotoluene	50.0	48.2		ug/Kg		96	79 - 136	1	20	
Chlorodibromomethane	50.0	58.0		ug/Kg		116	75 - 146	6	20	
1,2-Dichlorobenzene	50.0	51.0		ug/Kg		102	84 - 130	0	20	
1,3-Dichlorobenzene	50.0	51.0		ug/Kg		102	84 - 131	1	20	
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	85 - 125	0	20	
1,3-Dichloropropane	50.0	55.6		ug/Kg		111	79 - 140	4	20	
1,1-Dichloropropene	50.0	48.8		ug/Kg		98	70 - 130	2	20	
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/Kg		108	68 - 145	3	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95379/3-A

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Added	Result	Qualifier						
Ethylene Dibromide	50.0	59.0		ug/Kg		118	79 - 140	6	20
Dibromomethane	50.0	54.2		ug/Kg		108	80 - 139	4	20
Dichlorodifluoromethane	50.0	39.0		ug/Kg		78	37 - 158	6	20
1,1-Dichloroethane	50.0	46.6		ug/Kg		93	85 - 124	1	20
1,2-Dichloroethane	50.0	46.8		ug/Kg		94	72 - 130	4	20
1,1-Dichloroethene	50.0	44.0		ug/Kg		88	76 - 122	4	20
cis-1,2-Dichloroethene	50.0	54.6		ug/Kg		109	87 - 138	1	20
trans-1,2-Dichloroethene	50.0	39.0		ug/Kg		78	67 - 108	2	20
1,2-Dichloropropane	50.0	51.2		ug/Kg		102	73 - 127	2	20
cis-1,3-Dichloropropene	50.0	53.0		ug/Kg		106	68 - 147	3	20
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	84 - 136	4	20
Ethylbenzene	50.0	48.0		ug/Kg		96	80 - 137	5	20
Hexachlorobutadiene	50.0	49.8		ug/Kg		100	72 - 132	4	20
2-Hexanone	250	234		ug/Kg		94	60 - 161	12	20
Isopropylbenzene	50.0	48.6		ug/Kg		97	88 - 128	4	20
4-Isopropyltoluene	50.0	49.4		ug/Kg		99	85 - 133	4	20
Methylene Chloride	50.0	46.2		ug/Kg		92	72 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	250		ug/Kg		100	69 - 160	7	20
Naphthalene	50.0	61.2		ug/Kg		122	70 - 147	3	20
N-Propylbenzene	50.0	46.4		ug/Kg		93	72 - 125	4	20
Styrene	50.0	52.4		ug/Kg		105	89 - 126	1	20
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	90 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	82 - 146	2	20
Tetrachloroethene	50.0	50.4		ug/Kg		101	78 - 132	1	20
Toluene	50.0	48.6		ug/Kg		97	83 - 128	5	20
1,2,3-Trichlorobenzene	50.0	58.6		ug/Kg		117	82 - 135	3	20
1,2,4-Trichlorobenzene	50.0	54.8		ug/Kg		110	70 - 131	2	20
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	80 - 127	2	20
1,1,2-Trichloroethane	50.0	56.0		ug/Kg		112	82 - 125	4	20
Trichloroethene	50.0	51.2		ug/Kg		102	81 - 133	1	20
Trichlorofluoromethane	50.0	46.2		ug/Kg		92	71 - 139	3	20
1,2,3-Trichloropropane	50.0	53.4		ug/Kg		107	76 - 146	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.6		ug/Kg		95	70 - 130	3	20
1,2,4-Trimethylbenzene	50.0	48.4		ug/Kg		97	84 - 130	2	20
1,3,5-Trimethylbenzene	50.0	49.6		ug/Kg		99	82 - 131	2	20
Vinyl acetate	50.0	ND		ug/Kg		97	38 - 176	2	20
Vinyl chloride	50.0	40.4		ug/Kg		81	63 - 140	6	20
m-Xylene & p-Xylene	100	94.4		ug/Kg		94	79 - 146	4	20
o-Xylene	50.0	48.2		ug/Kg		96	84 - 140	3	20
2,2-Dichloropropane	50.0	46.6		ug/Kg		93	73 - 162	2	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	94		45 - 131
1,2-Dichloroethane-d4 (Surr)	89		60 - 140
Toluene-d8 (Surr)	99		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95379/5-A
Matrix: Solid
Analysis Batch: 95307

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD
							Limits	RPD	Limit
Gasoline Range Organics (GRO) -C5-C12	1000	846		ug/Kg		85	61 - 128	0	20

Surrogate	LCSD	LCSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: 720-36240-9 MS
Matrix: Solid
Analysis Batch: 95307

Client Sample ID: #4 WEST
Prep Type: Total/NA
Prep Batch: 95379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	
				Result	Qualifier				Limits	RPD
Methyl tert-butyl ether	ND		49.4	46.4		ug/Kg		94	69 - 130	
Acetone	ND		247	192		ug/Kg		78	37 - 150	
Benzene	ND		49.4	46.6		ug/Kg		94	70 - 130	
Dichlorobromomethane	ND		49.4	46.6		ug/Kg		94	64 - 135	
Bromobenzene	ND		49.4	48.0		ug/Kg		97	70 - 130	
Chlorobromomethane	ND		49.4	49.4		ug/Kg		100	65 - 130	
Bromoform	ND		49.4	48.8		ug/Kg		99	58 - 132	
Bromomethane	ND		49.4	44.5		ug/Kg		90	56 - 130	
2-Butanone (MEK)	ND		247	226		ug/Kg		92	41 - 150	
n-Butylbenzene	ND		49.4	46.2		ug/Kg		94	60 - 145	
sec-Butylbenzene	ND		49.4	45.3		ug/Kg		92	64 - 137	
tert-Butylbenzene	ND		49.4	45.3		ug/Kg		92	63 - 134	
Carbon disulfide	ND		49.4	42.1		ug/Kg		85	10 - 150	
Carbon tetrachloride	ND		49.4	42.9		ug/Kg		87	54 - 130	
Chlorobenzene	ND		49.4	46.6		ug/Kg		94	70 - 130	
Chloroethane	ND		49.4	40.1		ug/Kg		81	61 - 130	
Chloroform	ND		49.4	43.5		ug/Kg		88	67 - 130	
Chloromethane	ND		49.4	36.8		ug/Kg		74	50 - 131	
2-Chlorotoluene	ND		49.4	45.3		ug/Kg		92	70 - 130	
4-Chlorotoluene	ND		49.4	44.5		ug/Kg		90	70 - 130	
Chlorodibromomethane	ND		49.4	50.4		ug/Kg		102	60 - 141	
1,2-Dichlorobenzene	ND		49.4	47.0		ug/Kg		95	70 - 130	
1,3-Dichlorobenzene	ND		49.4	47.0		ug/Kg		95	70 - 130	
1,4-Dichlorobenzene	ND		49.4	47.0		ug/Kg		95	70 - 130	
1,3-Dichloropropane	ND		49.4	49.6		ug/Kg		100	70 - 130	
1,1-Dichloropropene	ND		49.4	43.9		ug/Kg		89	67 - 130	
1,2-Dibromo-3-Chloropropane	ND		49.4	50.8		ug/Kg		103	57 - 130	
Ethylene Dibromide	ND		49.4	52.0		ug/Kg		105	66 - 135	
Dibromomethane	ND		49.4	48.4		ug/Kg		98	65 - 131	
Dichlorodifluoromethane	ND		49.4	32.6		ug/Kg		66	38 - 130	
1,1-Dichloroethane	ND		49.4	42.9		ug/Kg		87	67 - 130	
1,2-Dichloroethane	ND		49.4	41.3		ug/Kg		84	70 - 130	
1,1-Dichloroethene	ND		49.4	40.3		ug/Kg		82	64 - 130	
cis-1,2-Dichloroethene	ND		49.4	50.4		ug/Kg		102	68 - 131	
trans-1,2-Dichloroethene	ND		49.4	36.0		ug/Kg		73	70 - 130	
1,2-Dichloropropane	ND		49.4	45.7		ug/Kg		92	65 - 133	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36240-9 MS

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: #4 WEST

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
cis-1,3-Dichloropropene	ND		49.4	46.2		ug/Kg		94	46 - 139	
trans-1,3-Dichloropropene	ND		49.4	48.4		ug/Kg		98	55 - 131	
Ethylbenzene	ND		49.4	45.7		ug/Kg		92	65 - 130	
Hexachlorobutadiene	ND		49.4	46.4		ug/Kg		94	58 - 132	
2-Hexanone	ND		247	219		ug/Kg		89	44 - 150	
Isopropylbenzene	ND		49.4	45.8		ug/Kg		93	65 - 130	
4-Isopropyltoluene	ND		49.4	46.0		ug/Kg		93	69 - 134	
Methylene Chloride	ND		49.4	42.5		ug/Kg		86	63 - 130	
4-Methyl-2-pentanone (MIBK)	ND		247	224		ug/Kg		91	51 - 140	
Naphthalene	ND		49.4	56.3		ug/Kg		114	45 - 146	
N-Propylbenzene	ND		49.4	43.1		ug/Kg		87	70 - 130	
Styrene	ND		49.4	48.4		ug/Kg		98	58 - 135	
1,1,1,2-Tetrachloroethane	ND		49.4	46.6		ug/Kg		94	64 - 133	
1,1,2,2-Tetrachloroethane	ND		49.4	40.3		ug/Kg		82	70 - 131	
Tetrachloroethene	ND		49.4	45.5		ug/Kg		92	67 - 130	
Toluene	ND		49.4	46.4		ug/Kg		94	70 - 130	
1,2,3-Trichlorobenzene	ND		49.4	52.4		ug/Kg		106	58 - 138	
1,2,4-Trichlorobenzene	ND		49.4	48.4		ug/Kg		98	49 - 144	
1,1,1-Trichloroethane	ND		49.4	41.9		ug/Kg		85	57 - 133	
1,1,2-Trichloroethane	ND		49.4	49.4		ug/Kg		100	68 - 132	
Trichloroethene	ND		49.4	53.4		ug/Kg		108	66 - 130	
Trichlorofluoromethane	ND		49.4	37.5		ug/Kg		76	61 - 130	
1,2,3-Trichloropropane	ND		49.4	49.8		ug/Kg		101	62 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.4	42.1		ug/Kg		85	52 - 130	
1,2,4-Trimethylbenzene	ND		49.4	45.1		ug/Kg		91	64 - 140	
1,3,5-Trimethylbenzene	ND		49.4	45.8		ug/Kg		93	67 - 134	
Vinyl acetate	ND		49.4	ND	F	ug/Kg		24	52 - 150	
Vinyl chloride	ND		49.4	35.0		ug/Kg		71	62 - 130	
m-Xylene & p-Xylene	ND		98.8	88.9		ug/Kg		90	70 - 130	
o-Xylene	ND		49.4	45.5		ug/Kg		92	68 - 130	
2,2-Dichloropropane	ND		49.4	41.7		ug/Kg		84	63 - 130	

Surrogate	MS	MS	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	94		45 - 131
1,2-Dichloroethane-d4 (Surr)	88		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: 720-36240-9 MSD

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: #4 WEST

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Methyl tert-butyl ether	ND		46.9	47.7		ug/Kg		102	69 - 130	3	20
Acetone	ND		235	198		ug/Kg		84	37 - 150	3	20
Benzene	ND		46.9	48.0		ug/Kg		102	70 - 130	3	20
Dichlorobromomethane	ND		46.9	47.8		ug/Kg		102	64 - 135	3	20
Bromobenzene	ND		46.9	49.2		ug/Kg		105	70 - 130	2	20
Chlorobromomethane	ND		46.9	50.5		ug/Kg		108	65 - 130	2	20
Bromoform	ND		46.9	49.5		ug/Kg		106	58 - 132	1	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36240-9 MSD

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: #4 WEST

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Bromomethane	ND		46.9	46.5		ug/Kg		99	56 - 130		5	20
2-Butanone (MEK)	ND		235	229		ug/Kg		98	41 - 150		1	20
n-Butylbenzene	ND		46.9	47.7		ug/Kg		102	60 - 145		3	20
sec-Butylbenzene	ND		46.9	46.9		ug/Kg		100	64 - 137		4	20
tert-Butylbenzene	ND		46.9	46.9		ug/Kg		100	63 - 134		4	20
Carbon disulfide	ND		46.9	43.7		ug/Kg		93	10 - 150		4	20
Carbon tetrachloride	ND		46.9	45.6		ug/Kg		97	54 - 130		6	20
Chlorobenzene	ND		46.9	47.3		ug/Kg		101	70 - 130		1	20
Chloroethane	ND		46.9	42.6		ug/Kg		91	61 - 130		6	20
Chloroform	ND		46.9	44.7		ug/Kg		95	67 - 130		3	20
Chloromethane	ND		46.9	39.4		ug/Kg		84	50 - 131		7	20
2-Chlorotoluene	ND		46.9	46.3		ug/Kg		99	70 - 130		2	20
4-Chlorotoluene	ND		46.9	45.4		ug/Kg		97	70 - 130		2	20
Chlorodibromomethane	ND		46.9	51.4		ug/Kg		110	60 - 141		2	20
1,2-Dichlorobenzene	ND		46.9	48.4		ug/Kg		103	70 - 130		3	20
1,3-Dichlorobenzene	ND		46.9	48.2		ug/Kg		103	70 - 130		2	20
1,4-Dichlorobenzene	ND		46.9	48.2		ug/Kg		103	70 - 130		2	20
1,3-Dichloropropane	ND		46.9	50.5		ug/Kg		108	70 - 130		2	20
1,1-Dichloropropene	ND		46.9	45.6		ug/Kg		97	67 - 130		4	20
1,2-Dibromo-3-Chloropropane	ND		46.9	51.8		ug/Kg		110	57 - 130		2	20
Ethylene Dibromide	ND		46.9	52.5		ug/Kg		112	66 - 135		1	20
Dibromomethane	ND		46.9	48.8		ug/Kg		104	65 - 131		1	20
Dichlorodifluoromethane	ND		46.9	36.2		ug/Kg		77	38 - 130		10	20
1,1-Dichloroethane	ND		46.9	44.3		ug/Kg		94	67 - 130		3	20
1,2-Dichloroethane	ND		46.9	42.4		ug/Kg		90	70 - 130		3	20
1,1-Dichloroethene	ND		46.9	42.2		ug/Kg		90	64 - 130		5	20
cis-1,2-Dichloroethene	ND		46.9	52.0		ug/Kg		111	68 - 131		3	20
trans-1,2-Dichloroethene	ND		46.9	37.3		ug/Kg		80	70 - 130		4	20
1,2-Dichloropropane	ND		46.9	46.9		ug/Kg		100	65 - 133		3	20
cis-1,3-Dichloropropene	ND		46.9	47.7		ug/Kg		102	46 - 139		3	20
trans-1,3-Dichloropropene	ND		46.9	49.3		ug/Kg		105	55 - 131		2	20
Ethylbenzene	ND		46.9	46.7		ug/Kg		100	65 - 130		2	20
Hexachlorobutadiene	ND		46.9	48.0		ug/Kg		102	58 - 132		3	20
2-Hexanone	ND		235	225		ug/Kg		96	44 - 150		3	20
Isopropylbenzene	ND		46.9	47.1		ug/Kg		100	65 - 130		3	20
4-Isopropyltoluene	ND		46.9	47.7		ug/Kg		102	69 - 134		3	20
Methylene Chloride	ND		46.9	43.5		ug/Kg		93	63 - 130		2	20
4-Methyl-2-pentanone (MIBK)	ND		235	228		ug/Kg		97	51 - 140		2	20
Naphthalene	ND		46.9	58.3		ug/Kg		124	45 - 146		4	20
N-Propylbenzene	ND		46.9	44.3		ug/Kg		94	70 - 130		3	20
Styrene	ND		46.9	49.2		ug/Kg		105	58 - 135		2	20
1,1,1,2-Tetrachloroethane	ND		46.9	47.7		ug/Kg		102	64 - 133		2	20
1,1,1,2,2-Tetrachloroethane	ND		46.9	40.5		ug/Kg		86	70 - 131		1	20
Tetrachloroethene	ND		46.9	47.5		ug/Kg		101	67 - 130		4	20
Toluene	ND		46.9	47.7		ug/Kg		102	70 - 130		3	20
1,2,3-Trichlorobenzene	ND		46.9	54.2		ug/Kg		116	58 - 138		3	20
1,2,4-Trichlorobenzene	ND		46.9	50.3		ug/Kg		107	49 - 144		4	20
1,1,1-Trichloroethane	ND		46.9	43.9		ug/Kg		94	57 - 133		5	20
1,1,2-Trichloroethane	ND		46.9	49.9		ug/Kg		106	68 - 132		1	20
Trichloroethene	ND		46.9	55.3		ug/Kg		118	66 - 130		4	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36240-9 MSD

Matrix: Solid

Analysis Batch: 95307

Client Sample ID: #4 WEST

Prep Type: Total/NA

Prep Batch: 95379

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Trichlorofluoromethane	ND		46.9	40.5		ug/Kg		86	61 - 130	8	20	
1,2,3-Trichloropropane	ND		46.9	50.3		ug/Kg		107	62 - 150	1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		46.9	44.1		ug/Kg		94	52 - 130	5	20	
1,2,4-Trimethylbenzene	ND		46.9	46.0		ug/Kg		98	64 - 140	2	20	
1,3,5-Trimethylbenzene	ND		46.9	47.5		ug/Kg		101	67 - 134	3	20	
Vinyl acetate	ND		46.9	ND	F	ug/Kg		25	52 - 150	2	20	
Vinyl chloride	ND		46.9	37.5		ug/Kg		80	62 - 130	7	20	
m-Xylene & p-Xylene	ND		93.8	91.2		ug/Kg		97	70 - 130	2	20	
o-Xylene	ND		46.9	46.3		ug/Kg		99	68 - 130	2	20	
2,2-Dichloropropane	ND		46.9	43.3		ug/Kg		92	63 - 130	4	20	

Surrogate	MSD	MSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	86		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: MB 720-95527/1-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95527

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Acetone	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Benzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Bromobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chlorobromomethane	ND		20		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Bromoform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Bromomethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2-Butanone (MEK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
n-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Carbon disulfide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chloroethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chloroform	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chloromethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95527/1-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95527

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dibromomethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Ethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2-Hexanone	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Isopropylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Methylene Chloride	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Naphthalene	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
N-Propylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Styrene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Tetrachloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Toluene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Trichloroethene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Vinyl acetate	ND		50		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Vinyl chloride	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
o-Xylene	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Xylenes, Total	ND		10		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/19/11 08:30	07/19/11 10:48	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/19/11 08:30	07/19/11 10:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	96		45 - 131	07/19/11 08:30	07/19/11 10:48	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 140	07/19/11 08:30	07/19/11 10:48	1
Toluene-d8 (Surr)	97		58 - 140	07/19/11 08:30	07/19/11 10:48	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95527/2-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec. Limits
	Added	Result	Qualifier				
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	71 - 144
Acetone	250	251		ug/Kg		101	30 - 162
Benzene	50.0	47.8		ug/Kg		96	82 - 124
Dichlorobromomethane	50.0	51.6		ug/Kg		103	86 - 131
Bromobenzene	50.0	49.4		ug/Kg		99	88 - 120
Chlorobromomethane	50.0	49.4		ug/Kg		99	81 - 116
Bromoform	50.0	53.6		ug/Kg		107	59 - 158
Bromomethane	50.0	46.2		ug/Kg		92	59 - 132
2-Butanone (MEK)	250	256		ug/Kg		102	61 - 150
n-Butylbenzene	50.0	51.4		ug/Kg		103	80 - 142
sec-Butylbenzene	50.0	50.0		ug/Kg		100	85 - 136
tert-Butylbenzene	50.0	51.4		ug/Kg		103	71 - 130
Carbon disulfide	50.0	50.6		ug/Kg		101	60 - 136
Carbon tetrachloride	50.0	50.8		ug/Kg		102	81 - 138
Chlorobenzene	50.0	47.8		ug/Kg		96	87 - 113
Chloroethane	50.0	46.8		ug/Kg		94	69 - 141
Chloroform	50.0	47.6		ug/Kg		95	77 - 127
Chloromethane	50.0	44.2		ug/Kg		88	60 - 149
2-Chlorotoluene	50.0	48.4		ug/Kg		97	80 - 138
4-Chlorotoluene	50.0	48.8		ug/Kg		98	79 - 136
Chlorodibromomethane	50.0	54.8		ug/Kg		110	75 - 146
1,2-Dichlorobenzene	50.0	47.4		ug/Kg		95	84 - 130
1,3-Dichlorobenzene	50.0	48.2		ug/Kg		96	84 - 131
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	85 - 125
1,3-Dichloropropane	50.0	49.2		ug/Kg		98	79 - 140
1,1-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/Kg		98	68 - 145
Ethylene Dibromide	50.0	51.6		ug/Kg		103	79 - 140
Dibromomethane	50.0	49.4		ug/Kg		99	80 - 139
Dichlorodifluoromethane	50.0	43.4		ug/Kg		87	37 - 158
1,1-Dichloroethane	50.0	47.6		ug/Kg		95	85 - 124
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	72 - 130
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	76 - 122
cis-1,2-Dichloroethene	50.0	47.0		ug/Kg		94	87 - 138
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	67 - 108
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	54.0		ug/Kg		108	68 - 147
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	84 - 136
Ethylbenzene	50.0	48.8		ug/Kg		98	80 - 137
Hexachlorobutadiene	50.0	48.0		ug/Kg		96	72 - 132
2-Hexanone	250	264		ug/Kg		106	60 - 161
Isopropylbenzene	50.0	51.0		ug/Kg		102	88 - 128
4-Isopropyltoluene	50.0	49.2		ug/Kg		98	85 - 133
Methylene Chloride	50.0	48.2		ug/Kg		96	72 - 134
4-Methyl-2-pentanone (MIBK)	250	258		ug/Kg		103	69 - 160
Naphthalene	50.0	51.0		ug/Kg		102	70 - 147
N-Propylbenzene	50.0	50.2		ug/Kg		100	72 - 125
Styrene	50.0	54.2		ug/Kg		108	89 - 126
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	90 - 130

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95527/2-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.	
	Added	Result	Qualifier				Limits	RPD
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	82 - 146	
Tetrachloroethene	50.0	51.4		ug/Kg		103	78 - 132	
Toluene	50.0	48.2		ug/Kg		96	83 - 128	
1,2,3-Trichlorobenzene	50.0	49.6		ug/Kg		99	82 - 135	
1,2,4-Trichlorobenzene	50.0	51.0		ug/Kg		102	70 - 131	
1,1,1-Trichloroethane	50.0	49.6		ug/Kg		99	80 - 127	
1,1,2-Trichloroethane	50.0	51.0		ug/Kg		102	82 - 125	
Trichloroethene	50.0	49.8		ug/Kg		100	81 - 133	
Trichlorofluoromethane	50.0	48.2		ug/Kg		96	71 - 139	
1,2,3-Trichloropropane	50.0	48.0		ug/Kg		96	76 - 146	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	70 - 130	
1,2,4-Trimethylbenzene	50.0	51.6		ug/Kg		103	84 - 130	
1,3,5-Trimethylbenzene	50.0	51.8		ug/Kg		104	82 - 131	
Vinyl acetate	50.0	53.4		ug/Kg		107	38 - 176	
Vinyl chloride	50.0	45.6		ug/Kg		91	63 - 140	
m-Xylene & p-Xylene	100	98.6		ug/Kg		99	79 - 146	
o-Xylene	50.0	48.6		ug/Kg		97	84 - 140	
2,2-Dichloropropane	50.0	51.2		ug/Kg		102	73 - 162	

Surrogate	LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	94		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Lab Sample ID: LCS 720-95527/4-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.	
	Added	Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO) -C5-C12	1000	1010		ug/Kg		101	61 - 128	

Surrogate	LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Lab Sample ID: LCSD 720-95527/3-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCSD	LCSD	Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Methyl tert-butyl ether	50.0	55.4		ug/Kg		111	71 - 144	12	20	
Acetone	250	261		ug/Kg		104	30 - 162	4	30	
Benzene	50.0	49.4		ug/Kg		99	82 - 124	3	20	
Dichlorobromomethane	50.0	55.0		ug/Kg		110	86 - 131	6	20	
Bromobenzene	50.0	52.2		ug/Kg		104	88 - 120	6	20	
Chlorobromomethane	50.0	54.0		ug/Kg		108	81 - 116	9	20	
Bromoform	50.0	58.0		ug/Kg		116	59 - 158	8	20	

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS D 720-95527/3-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike	LCS D	LCS D	Unit	D	% Rec	% Rec.	RPD	RPD	Limit
	Added	Result	Qualifier				Limits			
Bromomethane	50.0	48.0		ug/Kg		96	59 - 132	4	20	
2-Butanone (MEK)	250	276		ug/Kg		110	61 - 150	7	20	
n-Butylbenzene	50.0	52.0		ug/Kg		104	80 - 142	1	20	
sec-Butylbenzene	50.0	49.8		ug/Kg		100	85 - 136	0	20	
tert-Butylbenzene	50.0	51.4		ug/Kg		103	71 - 130	0	20	
Carbon disulfide	50.0	51.4		ug/Kg		103	60 - 136	2	20	
Carbon tetrachloride	50.0	51.0		ug/Kg		102	81 - 138	0	20	
Chlorobenzene	50.0	49.4		ug/Kg		99	87 - 113	3	20	
Chloroethane	50.0	47.6		ug/Kg		95	69 - 141	2	20	
Chloroform	50.0	50.2		ug/Kg		100	77 - 127	5	20	
Chloromethane	50.0	45.8		ug/Kg		92	60 - 149	4	20	
2-Chlorotoluene	50.0	49.4		ug/Kg		99	80 - 138	2	20	
4-Chlorotoluene	50.0	49.6		ug/Kg		99	79 - 136	2	20	
Chlorodibromomethane	50.0	59.4		ug/Kg		119	75 - 146	8	20	
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	84 - 130	5	20	
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	84 - 131	3	20	
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	85 - 125	3	20	
1,3-Dichloropropane	50.0	53.0		ug/Kg		106	79 - 140	7	20	
1,1-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 130	0	20	
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/Kg		106	68 - 145	8	20	
Ethylene Dibromide	50.0	55.6		ug/Kg		111	79 - 140	7	20	
Dibromomethane	50.0	53.4		ug/Kg		107	80 - 139	8	20	
Dichlorodifluoromethane	50.0	42.2		ug/Kg		84	37 - 158	3	20	
1,1-Dichloroethane	50.0	49.4		ug/Kg		99	85 - 124	4	20	
1,2-Dichloroethane	50.0	51.4		ug/Kg		103	72 - 130	8	20	
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	76 - 122	0	20	
cis-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	87 - 138	5	20	
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	67 - 108	3	20	
1,2-Dichloropropane	50.0	51.2		ug/Kg		102	73 - 127	5	20	
cis-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	68 - 147	6	20	
trans-1,3-Dichloropropene	50.0	59.4		ug/Kg		119	84 - 136	7	20	
Ethylbenzene	50.0	49.4		ug/Kg		99	80 - 137	1	20	
Hexachlorobutadiene	50.0	50.6		ug/Kg		101	72 - 132	5	20	
2-Hexanone	250	291		ug/Kg		116	60 - 161	10	20	
Isopropylbenzene	50.0	51.6		ug/Kg		103	88 - 128	1	20	
4-Isopropyltoluene	50.0	49.4		ug/Kg		99	85 - 133	0	20	
Methylene Chloride	50.0	51.6		ug/Kg		103	72 - 134	7	20	
4-Methyl-2-pentanone (MIBK)	250	282		ug/Kg		113	69 - 160	9	20	
Naphthalene	50.0	56.0		ug/Kg		112	70 - 147	9	20	
N-Propylbenzene	50.0	50.6		ug/Kg		101	72 - 125	1	20	
Styrene	50.0	56.2		ug/Kg		112	89 - 126	4	20	
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	90 - 130	4	20	
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	82 - 146	7	20	
Tetrachloroethene	50.0	51.4		ug/Kg		103	78 - 132	0	20	
Toluene	50.0	48.4		ug/Kg		97	83 - 128	0	20	
1,2,3-Trichlorobenzene	50.0	53.4		ug/Kg		107	82 - 135	7	20	
1,2,4-Trichlorobenzene	50.0	54.0		ug/Kg		108	70 - 131	6	20	
1,1,1-Trichloroethane	50.0	49.8		ug/Kg		100	80 - 127	0	20	
1,1,2-Trichloroethane	50.0	55.0		ug/Kg		110	82 - 125	8	20	
Trichloroethene	50.0	50.6		ug/Kg		101	81 - 133	2	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95527/3-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Trichlorofluoromethane	50.0	46.6		ug/Kg		93	71 - 139	3	20	
1,2,3-Trichloropropane	50.0	51.4		ug/Kg		103	76 - 146	7	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	70 - 130	0	20	
1,2,4-Trimethylbenzene	50.0	52.6		ug/Kg		105	84 - 130	2	20	
1,3,5-Trimethylbenzene	50.0	52.0		ug/Kg		104	82 - 131	0	20	
Vinyl acetate	50.0	56.8		ug/Kg		114	38 - 176	6	20	
Vinyl chloride	50.0	46.4		ug/Kg		93	63 - 140	2	20	
m-Xylene & p-Xylene	100	99.4		ug/Kg		99	79 - 146	1	20	
o-Xylene	50.0	50.2		ug/Kg		100	84 - 140	3	20	
2,2-Dichloropropane	50.0	51.8		ug/Kg		104	73 - 162	1	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Lab Sample ID: LCSD 720-95527/5-A

Matrix: Solid

Analysis Batch: 95458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95527

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	868		ug/Kg		87	61 - 128	15	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-95374/1-A

Matrix: Solid

Analysis Batch: 95445

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 95374

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/18/11 08:55	07/19/11 13:51	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Capric Acid (Surr)	0.2		0 - 5	07/18/11 08:55	07/19/11 13:51	1
p-Terphenyl	102		50 - 150	07/18/11 08:55	07/19/11 13:51	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-95374/2-A
Matrix: Solid
Analysis Batch: 95445

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 95374

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Diesel Range Organics [C10-C28]	82.4	72.6		mg/Kg		88	50 - 150	
Surrogate		% Recovery	Qualifier					
p-Terphenyl		99					50 - 150	

Lab Sample ID: LCSD 720-95374/3-A
Matrix: Solid
Analysis Batch: 95445

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 95374

Analyte	Spike Added	LCSD		Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Diesel Range Organics [C10-C28]	83.3	78.2		mg/Kg		94	50 - 150	7	35	
Surrogate		% Recovery	Qualifier							
p-Terphenyl		110					50 - 150			

Lab Sample ID: 720-36240-14 MS
Matrix: Solid
Analysis Batch: 95444

Client Sample ID: #2 WEST
Prep Type: Silica Gel Cleanup
Prep Batch: 95374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	
				Result	Qualifier				Limits	RPD
Diesel Range Organics [C10-C28]	450		82.1	615	4	mg/Kg		204	50 - 150	
Surrogate										
p-Terphenyl		0	D						50 - 150	

Lab Sample ID: 720-36240-14 MSD
Matrix: Solid
Analysis Batch: 95444

Client Sample ID: #2 WEST
Prep Type: Silica Gel Cleanup
Prep Batch: 95374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	% Rec	% Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Diesel Range Organics [C10-C28]	450		82.6	558	4	mg/Kg		133	50 - 150	10	20	
Surrogate												
p-Terphenyl		0	D						50 - 150			

Lab Sample ID: MB 720-95487/1-A
Matrix: Solid
Analysis Batch: 95547

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 95487

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/19/11 13:33	07/20/11 13:44	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/19/11 13:33	07/20/11 13:44	1
p-Terphenyl	89		50 - 150				07/19/11 13:33	07/20/11 13:44	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-95487/2-A
Matrix: Solid
Analysis Batch: 95547

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 95487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Diesel Range Organics [C10-C28]	83.0	74.4		mg/Kg		90	50 - 150
Surrogate		LCS % Recovery	LCS Qualifier				Limits
p-Terphenyl		97					50 - 150

Lab Sample ID: LCSD 720-95487/3-A
Matrix: Solid
Analysis Batch: 95547

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 95487

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.4	78.3		mg/Kg		94	50 - 150	5	35
Surrogate		LCSD % Recovery	LCSD Qualifier				Limits		
p-Terphenyl		105					50 - 150		

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

GC/MS VOA

Analysis Batch: 95307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95379/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95379
LCS 720-95379/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95379
LCSD 720-95379/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95379
LCS 720-95379/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95379
LCSD 720-95379/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-6	#4 NORTH	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-7	#4 SOUTH	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-8	#4 EAST	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-9	#4 WEST	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-9 MS	#4 WEST	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-9 MSD	#4 WEST	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-10	#4 BASE	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-11	#2 NORTH	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-13	#2 EAST	Total/NA	Solid	8260B/CA_LUFT MS	95379
720-36240-15	#2 BASE	Total/NA	Solid	8260B/CA_LUFT MS	95379

Prep Batch: 95379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95379/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95379/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95379/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95379/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95379/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36240-6	#4 NORTH	Total/NA	Solid	5030B	
720-36240-7	#4 SOUTH	Total/NA	Solid	5030B	
720-36240-8	#4 EAST	Total/NA	Solid	5030B	
720-36240-9	#4 WEST	Total/NA	Solid	5030B	
720-36240-9 MS	#4 WEST	Total/NA	Solid	5030B	
720-36240-9 MSD	#4 WEST	Total/NA	Solid	5030B	
720-36240-10	#4 BASE	Total/NA	Solid	5030B	
720-36240-11	#2 NORTH	Total/NA	Solid	5030B	
720-36240-13	#2 EAST	Total/NA	Solid	5030B	
720-36240-15	#2 BASE	Total/NA	Solid	5030B	

Analysis Batch: 95458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95527/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95527
LCS 720-95527/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95527
LCSD 720-95527/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95527



QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

GC/MS VOA (Continued)

Analysis Batch: 95458 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-95527/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95527
LCSD 720-95527/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36240-1	#5 NORTH	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36240-2	#5 SOUTH	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36240-3	#5 EAST	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36240-4	#5 WEST	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36240-5	#5 BASE	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36240-12	#2 SOUTH	Total/NA	Solid	8260B/CA_LUFT MS	95527
720-36240-14	#2 WEST	Total/NA	Solid	8260B/CA_LUFT MS	95527

Prep Batch: 95527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95527/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95527/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95527/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95527/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95527/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36240-1	#5 NORTH	Total/NA	Solid	5030B	
720-36240-2	#5 SOUTH	Total/NA	Solid	5030B	
720-36240-3	#5 EAST	Total/NA	Solid	5030B	
720-36240-4	#5 WEST	Total/NA	Solid	5030B	
720-36240-5	#5 BASE	Total/NA	Solid	5030B	
720-36240-12	#2 SOUTH	Total/NA	Solid	5030B	
720-36240-14	#2 WEST	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 95374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95374/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-95374/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-95374/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36240-7	#4 SOUTH	Silica Gel Cleanup	Solid	3546	
720-36240-14	#2 WEST	Silica Gel Cleanup	Solid	3546	
720-36240-14 MS	#2 WEST	Silica Gel Cleanup	Solid	3546	
720-36240-14 MSD	#2 WEST	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 95444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36240-14	#2 WEST	Silica Gel Cleanup	Solid	8015B	95374
720-36240-14 MS	#2 WEST	Silica Gel Cleanup	Solid	8015B	95374
720-36240-14 MSD	#2 WEST	Silica Gel Cleanup	Solid	8015B	95374

QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

GC Semi VOA (Continued)

Analysis Batch: 95445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-95374/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	95374
LCSD 720-95374/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	95374
MB 720-95374/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	95374
720-36240-7	#4 SOUTH	Silica Gel Cleanup	Solid	8015B	95374

Prep Batch: 95487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95487/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-95487/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-95487/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36240-1	#5 NORTH	Silica Gel Cleanup	Solid	3546	
720-36240-2	#5 SOUTH	Silica Gel Cleanup	Solid	3546	
720-36240-3	#5 EAST	Silica Gel Cleanup	Solid	3546	
720-36240-4	#5 WEST	Silica Gel Cleanup	Solid	3546	
720-36240-5	#5 BASE	Silica Gel Cleanup	Solid	3546	
720-36240-6	#4 NORTH	Silica Gel Cleanup	Solid	3546	
720-36240-8	#4 EAST	Silica Gel Cleanup	Solid	3546	
720-36240-9	#4 WEST	Silica Gel Cleanup	Solid	3546	
720-36240-10	#4 BASE	Silica Gel Cleanup	Solid	3546	
720-36240-11	#2 NORTH	Silica Gel Cleanup	Solid	3546	
720-36240-12	#2 SOUTH	Silica Gel Cleanup	Solid	3546	
720-36240-13	#2 EAST	Silica Gel Cleanup	Solid	3546	
720-36240-15	#2 BASE	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 95533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36240-1	#5 NORTH	Silica Gel Cleanup	Solid	8015B	95487
720-36240-2	#5 SOUTH	Silica Gel Cleanup	Solid	8015B	95487
720-36240-3	#5 EAST	Silica Gel Cleanup	Solid	8015B	95487
720-36240-4	#5 WEST	Silica Gel Cleanup	Solid	8015B	95487
720-36240-5	#5 BASE	Silica Gel Cleanup	Solid	8015B	95487
720-36240-12	#2 SOUTH	Silica Gel Cleanup	Solid	8015B	95487

Analysis Batch: 95547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95487/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	95487
LCS 720-95487/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	95487
LCSD 720-95487/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	95487
720-36240-6	#4 NORTH	Silica Gel Cleanup	Solid	8015B	95487
720-36240-8	#4 EAST	Silica Gel Cleanup	Solid	8015B	95487
720-36240-9	#4 WEST	Silica Gel Cleanup	Solid	8015B	95487
720-36240-10	#4 BASE	Silica Gel Cleanup	Solid	8015B	95487
720-36240-11	#2 NORTH	Silica Gel Cleanup	Solid	8015B	95487
720-36240-13	#2 EAST	Silica Gel Cleanup	Solid	8015B	95487
720-36240-15	#2 BASE	Silica Gel Cleanup	Solid	8015B	95487

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Client Sample ID: #5 NORTH

Lab Sample ID: 720-36240-1

Date Collected: 07/13/11 08:00

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 13:31	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95533	07/20/11 16:29	DH	TAL SF

Client Sample ID: #5 SOUTH

Lab Sample ID: 720-36240-2

Date Collected: 07/13/11 08:10

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 14:30	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95533	07/20/11 16:53	DH	TAL SF

Client Sample ID: #5 EAST

Lab Sample ID: 720-36240-3

Date Collected: 07/13/11 08:05

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 14:59	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95533	07/20/11 17:41	DH	TAL SF

Client Sample ID: #5 WEST

Lab Sample ID: 720-36240-4

Date Collected: 07/13/11 08:20

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 15:28	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95533	07/20/11 18:06	DH	TAL SF

Client Sample ID: #5 BASE

Lab Sample ID: 720-36240-5

Date Collected: 07/13/11 08:15

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 15:57	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95533	07/20/11 18:54	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Client Sample ID: #4 NORTH

Lab Sample ID: 720-36240-6

Date Collected: 07/13/11 11:46

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 00:25	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95547	07/20/11 14:55	DH	TAL SF

Client Sample ID: #4 SOUTH

Lab Sample ID: 720-36240-7

Date Collected: 07/13/11 11:40

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 00:54	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95445	07/19/11 15:44	DH	TAL SF

Client Sample ID: #4 EAST

Lab Sample ID: 720-36240-8

Date Collected: 07/13/11 11:48

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 01:23	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95547	07/20/11 15:19	DH	TAL SF

Client Sample ID: #4 WEST

Lab Sample ID: 720-36240-9

Date Collected: 07/13/11 11:38

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 01:51	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95547	07/20/11 15:42	DH	TAL SF

Client Sample ID: #4 BASE

Lab Sample ID: 720-36240-10

Date Collected: 07/13/11 13:00

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 03:18	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95547	07/20/11 16:06	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Client Sample ID: #2 NORTH

Lab Sample ID: 720-36240-11

Date Collected: 07/13/11 10:23

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 03:47	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95547	07/20/11 16:29	DH	TAL SF

Client Sample ID: #2 SOUTH

Lab Sample ID: 720-36240-12

Date Collected: 07/13/11 10:25

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 16:26	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95533	07/20/11 19:19	DH	TAL SF

Client Sample ID: #2 EAST

Lab Sample ID: 720-36240-13

Date Collected: 07/13/11 10:20

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 04:44	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95547	07/20/11 16:53	DH	TAL SF

Client Sample ID: #2 WEST

Lab Sample ID: 720-36240-14

Date Collected: 07/13/11 10:24

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95527	07/19/11 08:30	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95458	07/19/11 18:24	LL	TAL SF
Silica Gel Cleanup	Prep	3546			95374	07/18/11 08:55	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95444	07/19/11 13:03	DH	TAL SF

Client Sample ID: #2 BASE

Lab Sample ID: 720-36240-15

Date Collected: 07/13/11 10:15

Matrix: Solid

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95379	07/15/11 18:29	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95307	07/16/11 05:42	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95487	07/19/11 13:33	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95547	07/20/11 17:16	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM	8260B / CA LUFT MS	SW846	TAL SF
S			
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36240-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36240-1	#5 NORTH	Solid	07/13/11 08:00	07/13/11 17:20
720-36240-2	#5 SOUTH	Solid	07/13/11 08:10	07/13/11 17:20
720-36240-3	#5 EAST	Solid	07/13/11 08:05	07/13/11 17:20
720-36240-4	#5 WEST	Solid	07/13/11 08:20	07/13/11 17:20
720-36240-5	#5 BASE	Solid	07/13/11 08:15	07/13/11 17:20
720-36240-6	#4 NORTH	Solid	07/13/11 11:46	07/13/11 17:20
720-36240-7	#4 SOUTH	Solid	07/13/11 11:40	07/13/11 17:20
720-36240-8	#4 EAST	Solid	07/13/11 11:48	07/13/11 17:20
720-36240-9	#4 WEST	Solid	07/13/11 11:38	07/13/11 17:20
720-36240-10	#4 BASE	Solid	07/13/11 13:00	07/13/11 17:20
720-36240-11	#2 NORTH	Solid	07/13/11 10:23	07/13/11 17:20
720-36240-12	#2 SOUTH	Solid	07/13/11 10:25	07/13/11 17:20
720-36240-13	#2 EAST	Solid	07/13/11 10:20	07/13/11 17:20
720-36240-14	#2 WEST	Solid	07/13/11 10:24	07/13/11 17:20
720-36240-15	#2 BASE	Solid	07/13/11 10:15	07/13/11 17:20

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770-36240

Report To:

Analysis Request

Attn: **Richard Gandolfo**
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Phone: **209 684 7609** Email: **rgandolfo@engeco.com**
Bill To: **above** Sampled By: **R. Gandolfo**
Attn: **above** Phone: **(209) 321 2665**

Sample ID	Date	Time	Mat /ix	Preserv	TPH EPA 8015M <input checked="" type="checkbox"/> <input type="checkbox"/> MTBE	Gas w/ <input checked="" type="checkbox"/> BTEX <input type="checkbox"/>	Silica Gel <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Diesel <input type="checkbox"/>	EPA 8260B <input type="checkbox"/> Gas <input type="checkbox"/> BTEX	EPA 8260B <input type="checkbox"/> Ethanol <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/>	(HVOCs) EPA 8021 by 8260B <input type="checkbox"/>	Volatiles Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/>	EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total <input type="checkbox"/>	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608	PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471) <input type="checkbox"/>	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	Low Level Metals by EPA 200.8/6020 (ICP-MS): <input type="checkbox"/>	WET (STLC) <input type="checkbox"/>	TCLP <input type="checkbox"/>	Hexavalent Chromium <input type="checkbox"/>	pH (24h hold time for H ₂ O) <input type="checkbox"/>	Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/>	TSS <input type="checkbox"/> TDS <input type="checkbox"/>	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄ <input type="checkbox"/>	Number of Containers						
#5 North	7/13/11	8:00	5	ice																															
#5 South		8:10																																	
#5 East		8:05																																	
#5 West		8:20																																	
#5 Base		8:15																																	
#4 North		11:46																																	
#4 South		11:46																																	
#4 East		11:48																																	
#4 West		11:30																																	
#4 Base		13:00																																	

Project Name: **Macedo Remediation** # of Containers: _____
Project#: **7380.OCW.003** Head Space: _____
PO#: _____ Temp: **2.8°**
Credit Card#: _____ Conforms to record: _____

1) Relinquished by: _____ (770)
Signature _____ Time _____
Richard Gandolfo 7/13/11
Printed Name _____ Date _____
ENGEO
Company _____

2) Relinquished by: _____
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Relinquished by: _____
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

Report: Routine Level 3 Level 4 EDD State Tank Fund EDP
Special Instructions / Comments: Global ID _____

1) Received by: _____ (770)
Signature _____ Time _____
Mullen 7-13-11
Printed Name _____ Date _____
of Air
Company _____

2) Received by: _____
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Received by: _____
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

See Terms and Conditions on reverse
*TestAmerica SF report 15M from C₈-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₄

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07/22/2011



Only for
Gray in Box
INTB

720-36240

Report To **Analysis Request**

Attn: **RICHARD GANDOLFO**
 Company: **ENGE O**
 Address: **580 N. Wilma, Ste A, Ripon**
 Phone: **(209) 684 7609** Email: **rgandolfo@engeo.com**
 Bill To: **above** Sampled By: **R. Gandolfo**
 Attn: **above** Phone: **(209) 321 2665**

Sample ID	Date	Time	Mat rix	Preser vative	TPH EPA 8015M EL Gas w/ Silica Gel	Diesel Motor Oil	EPA 8260B Gas BTEX 5 Oxygenates DCA, EOB Ethanol	(HVOCS) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) EPA 8260B 624	Semivolatiles GC/MS EPA 8270 625	Oil and Grease Petroleum (EPA 1664) Total	Pesticides EPA 8081 608 PCBs EPA 8082 608	PNAs by EPA 8270 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: Lead LUFF RCRA Other	Low Level Metals by EPA 200.8/6020 (ICP-MS)	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec. Cond. Alkalinity TSS TDS	Anions: Cl SO ₄ NO ₃ F Br NO ₂ PO ₄	Number of Containers	
#2 North	7/12	10:23	5	ice	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
#2 South		10:25			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
#2 East		10:20			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
#2 West		10:24			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
#2 Barr		10:15			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

Project Info

Project Name: **Macedo Remediation**

Project#: **7380.000.003**

PO#: _____

Credit Card#: _____

Sample Receipt

of Containers: _____

Head Space: _____

Temp: **2.8°C**

Conforms to record: _____

1) Relinquished by:

[Signature] **1720**

Signature: **Richard Gandolfo** Time: **7/12/11**

Printed Name: **ENGE O** Date: _____

Company: _____

2) Relinquished by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

3) Relinquished by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

TAT: **5** Day 3 Day 2 Day 1 Day

Report: Routine Level 3 Level 4 EDD State Tank Fund EDF

Special Instructions / Comments: Global ID _____

1) Received by:

[Signature] **1720**

Signature: **Muller** Time: **7-13-11**

Printed Name: **est Amie** Date: _____

Company: _____

2) Received by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

3) Received by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

See Terms and Conditions
 *TestAmerica SF req. Inverse 15M from C₉-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₈

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07/22/2011



Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36240-1

Login Number: 36240

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36241-1
Client Project/Site: Macedo Remediation

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, California 95366-9502

Attn: Mr. Richard Gandolfo



Authorized for release by:
07/20/2011 04:41:37 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

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Case Narrative

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Job ID: 720-36241-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36241-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

- 1
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Detection Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Client Sample ID: DEEP

Lab Sample ID: 720-36241-1

No Detections.

Client Sample ID: SHALLOW

Lab Sample ID: 720-36241-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	3.6		0.50		ug/L	1		8260B/CA_LUFTM	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: DEEP

Date Collected: 07/13/11 00:00

Date Received: 07/13/11 17:20

Lab Sample ID: 720-36241-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			07/15/11 13:03	1
Acetone	ND		50		ug/L			07/15/11 13:03	1
Benzene	ND		0.50		ug/L			07/15/11 13:03	1
Dichlorobromomethane	ND		0.50		ug/L			07/15/11 13:03	1
Bromobenzene	ND		1.0		ug/L			07/15/11 13:03	1
Chlorobromomethane	ND		1.0		ug/L			07/15/11 13:03	1
Bromoform	ND		1.0		ug/L			07/15/11 13:03	1
Bromomethane	ND		1.0		ug/L			07/15/11 13:03	1
2-Butanone (MEK)	ND		50		ug/L			07/15/11 13:03	1
n-Butylbenzene	ND		1.0		ug/L			07/15/11 13:03	1
sec-Butylbenzene	ND		1.0		ug/L			07/15/11 13:03	1
tert-Butylbenzene	ND		1.0		ug/L			07/15/11 13:03	1
Carbon disulfide	ND		5.0		ug/L			07/15/11 13:03	1
Carbon tetrachloride	ND		0.50		ug/L			07/15/11 13:03	1
Chlorobenzene	ND		0.50		ug/L			07/15/11 13:03	1
Chloroethane	ND		1.0		ug/L			07/15/11 13:03	1
Chloroform	ND		1.0		ug/L			07/15/11 13:03	1
Chloromethane	ND		1.0		ug/L			07/15/11 13:03	1
2-Chlorotoluene	ND		0.50		ug/L			07/15/11 13:03	1
4-Chlorotoluene	ND		0.50		ug/L			07/15/11 13:03	1
Chlorodibromomethane	ND		0.50		ug/L			07/15/11 13:03	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/15/11 13:03	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/15/11 13:03	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/15/11 13:03	1
1,3-Dichloropropane	ND		1.0		ug/L			07/15/11 13:03	1
1,1-Dichloropropene	ND		0.50		ug/L			07/15/11 13:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/15/11 13:03	1
Ethylene Dibromide	ND		0.50		ug/L			07/15/11 13:03	1
Dibromomethane	ND		0.50		ug/L			07/15/11 13:03	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/15/11 13:03	1
1,1-Dichloroethane	ND		0.50		ug/L			07/15/11 13:03	1
1,2-Dichloroethane	ND		0.50		ug/L			07/15/11 13:03	1
1,1-Dichloroethene	ND		0.50		ug/L			07/15/11 13:03	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/15/11 13:03	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/15/11 13:03	1
1,2-Dichloropropane	ND		0.50		ug/L			07/15/11 13:03	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/15/11 13:03	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/15/11 13:03	1
Ethylbenzene	ND		0.50		ug/L			07/15/11 13:03	1
Hexachlorobutadiene	ND		1.0		ug/L			07/15/11 13:03	1
2-Hexanone	ND		50		ug/L			07/15/11 13:03	1
Isopropylbenzene	ND		0.50		ug/L			07/15/11 13:03	1
4-Isopropyltoluene	ND		1.0		ug/L			07/15/11 13:03	1
Methylene Chloride	ND		5.0		ug/L			07/15/11 13:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/15/11 13:03	1
Naphthalene	ND		1.0		ug/L			07/15/11 13:03	1
N-Propylbenzene	ND		1.0		ug/L			07/15/11 13:03	1
Styrene	ND		0.50		ug/L			07/15/11 13:03	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/15/11 13:03	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: DEEP

Date Collected: 07/13/11 00:00

Date Received: 07/13/11 17:20

Lab Sample ID: 720-36241-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/15/11 13:03	1
Tetrachloroethene	ND		0.50		ug/L			07/15/11 13:03	1
Toluene	ND		0.50		ug/L			07/15/11 13:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/15/11 13:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/15/11 13:03	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/15/11 13:03	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/15/11 13:03	1
Trichloroethene	ND		0.50		ug/L			07/15/11 13:03	1
Trichlorofluoromethane	ND		1.0		ug/L			07/15/11 13:03	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/15/11 13:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/15/11 13:03	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/15/11 13:03	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/15/11 13:03	1
Vinyl acetate	ND		10		ug/L			07/15/11 13:03	1
Vinyl chloride	ND		0.50		ug/L			07/15/11 13:03	1
Xylenes, Total	ND		1.0		ug/L			07/15/11 13:03	1
2,2-Dichloropropane	ND		0.50		ug/L			07/15/11 13:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/15/11 13:03	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		67 - 130		07/15/11 13:03	1
1,2-Dichloroethane-d4 (Surr)	94		67 - 130		07/15/11 13:03	1
Toluene-d8 (Surr)	97		70 - 130		07/15/11 13:03	1

Client Sample ID: SHALLOW

Date Collected: 07/13/11 00:00

Date Received: 07/13/11 17:20

Lab Sample ID: 720-36241-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	3.6		0.50		ug/L			07/15/11 15:27	1
Acetone	ND		50		ug/L			07/15/11 15:27	1
Benzene	ND		0.50		ug/L			07/15/11 15:27	1
Dichlorobromomethane	ND		0.50		ug/L			07/15/11 15:27	1
Bromobenzene	ND		1.0		ug/L			07/15/11 15:27	1
Chlorobromomethane	ND		1.0		ug/L			07/15/11 15:27	1
Bromoform	ND		1.0		ug/L			07/15/11 15:27	1
Bromomethane	ND		1.0		ug/L			07/15/11 15:27	1
2-Butanone (MEK)	ND		50		ug/L			07/15/11 15:27	1
n-Butylbenzene	ND		1.0		ug/L			07/15/11 15:27	1
sec-Butylbenzene	ND		1.0		ug/L			07/15/11 15:27	1
tert-Butylbenzene	ND		1.0		ug/L			07/15/11 15:27	1
Carbon disulfide	ND		5.0		ug/L			07/15/11 15:27	1
Carbon tetrachloride	ND		0.50		ug/L			07/15/11 15:27	1
Chlorobenzene	ND		0.50		ug/L			07/15/11 15:27	1
Chloroethane	ND		1.0		ug/L			07/15/11 15:27	1
Chloroform	ND		1.0		ug/L			07/15/11 15:27	1
Chloromethane	ND		1.0		ug/L			07/15/11 15:27	1
2-Chlorotoluene	ND		0.50		ug/L			07/15/11 15:27	1
4-Chlorotoluene	ND		0.50		ug/L			07/15/11 15:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SHALLOW
Date Collected: 07/13/11 00:00
Date Received: 07/13/11 17:20

Lab Sample ID: 720-36241-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50		ug/L			07/15/11 15:27	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/15/11 15:27	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/15/11 15:27	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/15/11 15:27	1
1,3-Dichloropropane	ND		1.0		ug/L			07/15/11 15:27	1
1,1-Dichloropropene	ND		0.50		ug/L			07/15/11 15:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/15/11 15:27	1
Ethylene Dibromide	ND		0.50		ug/L			07/15/11 15:27	1
Dibromomethane	ND		0.50		ug/L			07/15/11 15:27	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/15/11 15:27	1
1,1-Dichloroethane	ND		0.50		ug/L			07/15/11 15:27	1
1,2-Dichloroethane	ND		0.50		ug/L			07/15/11 15:27	1
1,1-Dichloroethene	ND		0.50		ug/L			07/15/11 15:27	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/15/11 15:27	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/15/11 15:27	1
1,2-Dichloropropane	ND		0.50		ug/L			07/15/11 15:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/15/11 15:27	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/15/11 15:27	1
Ethylbenzene	ND		0.50		ug/L			07/15/11 15:27	1
Hexachlorobutadiene	ND		1.0		ug/L			07/15/11 15:27	1
2-Hexanone	ND		50		ug/L			07/15/11 15:27	1
Isopropylbenzene	ND		0.50		ug/L			07/15/11 15:27	1
4-Isopropyltoluene	ND		1.0		ug/L			07/15/11 15:27	1
Methylene Chloride	ND		5.0		ug/L			07/15/11 15:27	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/15/11 15:27	1
Naphthalene	ND		1.0		ug/L			07/15/11 15:27	1
N-Propylbenzene	ND		1.0		ug/L			07/15/11 15:27	1
Styrene	ND		0.50		ug/L			07/15/11 15:27	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/15/11 15:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/15/11 15:27	1
Tetrachloroethene	ND		0.50		ug/L			07/15/11 15:27	1
Toluene	ND		0.50		ug/L			07/15/11 15:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/15/11 15:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/15/11 15:27	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/15/11 15:27	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/15/11 15:27	1
Trichloroethene	ND		0.50		ug/L			07/15/11 15:27	1
Trichlorofluoromethane	ND		1.0		ug/L			07/15/11 15:27	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/15/11 15:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/15/11 15:27	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/15/11 15:27	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/15/11 15:27	1
Vinyl acetate	ND		10		ug/L			07/15/11 15:27	1
Vinyl chloride	ND		0.50		ug/L			07/15/11 15:27	1
Xylenes, Total	ND		1.0		ug/L			07/15/11 15:27	1
2,2-Dichloropropane	ND		0.50		ug/L			07/15/11 15:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/15/11 15:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	97		67 - 130		07/15/11 15:27	1
1,2-Dichloroethane-d4 (Surr)	97		67 - 130		07/15/11 15:27	1
Toluene-d8 (Surr)	97		70 - 130		07/15/11 15:27	1

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: DEEP

Date Collected: 07/13/11 00:00

Date Received: 07/13/11 17:20

Lab Sample ID: 720-36241-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		52		ug/L		07/19/11 11:56	07/20/11 10:26	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/19/11 11:56	07/20/11 10:26	1
p-Terphenyl	76		31 - 150				07/19/11 11:56	07/20/11 10:26	1

Client Sample ID: SHALLOW

Date Collected: 07/13/11 00:00

Date Received: 07/13/11 17:20

Lab Sample ID: 720-36241-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		60		ug/L		07/19/11 11:56	07/20/11 10:50	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.03		0 - 5				07/19/11 11:56	07/20/11 10:50	1
p-Terphenyl	81		31 - 150				07/19/11 11:56	07/20/11 10:50	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-95238/4
Matrix: Water
Analysis Batch: 95238

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50		ug/L			07/15/11 09:46	1
Acetone	ND		50		ug/L			07/15/11 09:46	1
Benzene	ND		0.50		ug/L			07/15/11 09:46	1
Dichlorobromomethane	ND		0.50		ug/L			07/15/11 09:46	1
Bromobenzene	ND		1.0		ug/L			07/15/11 09:46	1
Chlorobromomethane	ND		1.0		ug/L			07/15/11 09:46	1
Bromoform	ND		1.0		ug/L			07/15/11 09:46	1
Bromomethane	ND		1.0		ug/L			07/15/11 09:46	1
2-Butanone (MEK)	ND		50		ug/L			07/15/11 09:46	1
n-Butylbenzene	ND		1.0		ug/L			07/15/11 09:46	1
sec-Butylbenzene	ND		1.0		ug/L			07/15/11 09:46	1
tert-Butylbenzene	ND		1.0		ug/L			07/15/11 09:46	1
Carbon disulfide	ND		5.0		ug/L			07/15/11 09:46	1
Carbon tetrachloride	ND		0.50		ug/L			07/15/11 09:46	1
Chlorobenzene	ND		0.50		ug/L			07/15/11 09:46	1
Chloroethane	ND		1.0		ug/L			07/15/11 09:46	1
Chloroform	ND		1.0		ug/L			07/15/11 09:46	1
Chloromethane	ND		1.0		ug/L			07/15/11 09:46	1
2-Chlorotoluene	ND		0.50		ug/L			07/15/11 09:46	1
4-Chlorotoluene	ND		0.50		ug/L			07/15/11 09:46	1
Chlorodibromomethane	ND		0.50		ug/L			07/15/11 09:46	1
1,2-Dichlorobenzene	ND		0.50		ug/L			07/15/11 09:46	1
1,3-Dichlorobenzene	ND		0.50		ug/L			07/15/11 09:46	1
1,4-Dichlorobenzene	ND		0.50		ug/L			07/15/11 09:46	1
1,3-Dichloropropane	ND		1.0		ug/L			07/15/11 09:46	1
1,1-Dichloropropene	ND		0.50		ug/L			07/15/11 09:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			07/15/11 09:46	1
Ethylene Dibromide	ND		0.50		ug/L			07/15/11 09:46	1
Dibromomethane	ND		0.50		ug/L			07/15/11 09:46	1
Dichlorodifluoromethane	ND		0.50		ug/L			07/15/11 09:46	1
1,1-Dichloroethane	ND		0.50		ug/L			07/15/11 09:46	1
1,2-Dichloroethane	ND		0.50		ug/L			07/15/11 09:46	1
1,1-Dichloroethene	ND		0.50		ug/L			07/15/11 09:46	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			07/15/11 09:46	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			07/15/11 09:46	1
1,2-Dichloropropane	ND		0.50		ug/L			07/15/11 09:46	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			07/15/11 09:46	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			07/15/11 09:46	1
Ethylbenzene	ND		0.50		ug/L			07/15/11 09:46	1
Hexachlorobutadiene	ND		1.0		ug/L			07/15/11 09:46	1
2-Hexanone	ND		50		ug/L			07/15/11 09:46	1
Isopropylbenzene	ND		0.50		ug/L			07/15/11 09:46	1
4-Isopropyltoluene	ND		1.0		ug/L			07/15/11 09:46	1
Methylene Chloride	ND		5.0		ug/L			07/15/11 09:46	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/15/11 09:46	1
Naphthalene	ND		1.0		ug/L			07/15/11 09:46	1
N-Propylbenzene	ND		1.0		ug/L			07/15/11 09:46	1
Styrene	ND		0.50		ug/L			07/15/11 09:46	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			07/15/11 09:46	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95238/4

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/15/11 09:46	1
Tetrachloroethene	ND		0.50		ug/L			07/15/11 09:46	1
Toluene	ND		0.50		ug/L			07/15/11 09:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/15/11 09:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/15/11 09:46	1
1,1,1-Trichloroethane	ND		0.50		ug/L			07/15/11 09:46	1
1,1,2-Trichloroethane	ND		0.50		ug/L			07/15/11 09:46	1
Trichloroethene	ND		0.50		ug/L			07/15/11 09:46	1
Trichlorofluoromethane	ND		1.0		ug/L			07/15/11 09:46	1
1,2,3-Trichloropropane	ND		0.50		ug/L			07/15/11 09:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			07/15/11 09:46	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			07/15/11 09:46	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			07/15/11 09:46	1
Vinyl acetate	ND		10		ug/L			07/15/11 09:46	1
Vinyl chloride	ND		0.50		ug/L			07/15/11 09:46	1
m-Xylene & p-Xylene	ND		1.0		ug/L			07/15/11 09:46	1
o-Xylene	ND		0.50		ug/L			07/15/11 09:46	1
Xylenes, Total	ND		1.0		ug/L			07/15/11 09:46	1
2,2-Dichloropropane	ND		0.50		ug/L			07/15/11 09:46	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/15/11 09:46	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	96		67 - 130		07/15/11 09:46	1
1,2-Dichloroethane-d4 (Surr)	94		67 - 130		07/15/11 09:46	1
Toluene-d8 (Surr)	98		70 - 130		07/15/11 09:46	1

Lab Sample ID: LCS 720-95238/5

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	125	107		ug/L		85	26 - 180
Benzene	25.0	25.7		ug/L		103	82 - 127
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Bromobenzene	25.0	25.7		ug/L		103	79 - 127
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Bromoform	25.0	25.8		ug/L		103	68 - 136
Bromomethane	25.0	26.4		ug/L		106	43 - 151
2-Butanone (MEK)	125	120		ug/L		96	66 - 149
n-Butylbenzene	25.0	26.4		ug/L		106	79 - 142
sec-Butylbenzene	25.0	25.0		ug/L		100	81 - 134
tert-Butylbenzene	25.0	24.7		ug/L		99	82 - 135
Carbon disulfide	25.0	23.7		ug/L		95	58 - 124
Carbon tetrachloride	25.0	24.7		ug/L		99	77 - 146
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130
Chloroethane	25.0	24.4		ug/L		98	62 - 138
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	22.3		ug/L		89	52 - 175

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95238/5

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
Chlorodibromomethane	25.0	27.5		ug/L		110	78 - 145
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	87 - 118
1,3-Dichloropropane	25.0	26.5		ug/L		106	82 - 128
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.8		ug/L		99	72 - 136
Ethylene Dibromide	25.0	27.6		ug/L		110	70 - 130
Dibromomethane	25.0	25.9		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	21.0		ug/L		84	33 - 125
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130
1,2-Dichloroethane	25.0	22.5		ug/L		90	70 - 126
1,1-Dichloroethene	25.0	22.7		ug/L		91	64 - 128
cis-1,2-Dichloroethene	25.0	27.7		ug/L		111	70 - 130
trans-1,2-Dichloroethene	25.0	20.1		ug/L		80	68 - 118
1,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130
cis-1,3-Dichloropropene	25.0	26.1		ug/L		104	88 - 137
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	83 - 140
Ethylbenzene	25.0	25.3		ug/L		101	86 - 135
Hexachlorobutadiene	25.0	25.7		ug/L		103	70 - 130
2-Hexanone	125	115		ug/L		92	60 - 164
Isopropylbenzene	25.0	25.6		ug/L		102	70 - 130
4-Isopropyltoluene	25.0	25.6		ug/L		102	70 - 130
Methylene Chloride	25.0	22.9		ug/L		92	73 - 147
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	63 - 165
Naphthalene	25.0	28.2		ug/L		113	78 - 135
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130
Styrene	25.0	26.6		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
Toluene	25.0	25.6		ug/L		102	83 - 129
1,2,3-Trichlorobenzene	25.0	27.8		ug/L		111	70 - 130
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	26.6		ug/L		106	82 - 128
Trichloroethene	25.0	26.0		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	24.0		ug/L		96	72 - 135
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5		ug/L		98	42 - 162
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 132
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130
Vinyl acetate	25.0	23.1		ug/L		92	43 - 163
Vinyl chloride	25.0	21.7		ug/L		87	65 - 156
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	70 - 142
o-Xylene	25.0	24.9		ug/L		100	89 - 136
2,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95238/5

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	86		67 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 720-95238/7

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	500	439		ug/L		88	62 - 117

Surrogate	LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	97		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		67 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-95238/6

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	% Rec	% Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Methyl tert-butyl ether	25.0	25.7		ug/L		103	62 - 130	2	20
Acetone	125	90.8		ug/L		73	26 - 180	16	30
Benzene	25.0	25.4		ug/L		102	82 - 127	1	20
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130	0	20
Bromobenzene	25.0	25.3		ug/L		101	79 - 127	2	20
Chlorobromomethane	25.0	26.4		ug/L		106	70 - 130	0	20
Bromoform	25.0	26.4		ug/L		106	68 - 136	2	20
Bromomethane	25.0	25.8		ug/L		103	43 - 151	2	20
2-Butanone (MEK)	125	113		ug/L		90	66 - 149	6	20
n-Butylbenzene	25.0	25.9		ug/L		104	79 - 142	2	20
sec-Butylbenzene	25.0	24.4		ug/L		98	81 - 134	2	20
tert-Butylbenzene	25.0	24.1		ug/L		96	82 - 135	2	20
Carbon disulfide	25.0	23.2		ug/L		93	58 - 124	2	20
Carbon tetrachloride	25.0	24.6		ug/L		98	77 - 146	0	20
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130	1	20
Chloroethane	25.0	23.9		ug/L		96	62 - 138	2	20
Chloroform	25.0	23.5		ug/L		94	70 - 130	1	20
Chloromethane	25.0	22.2		ug/L		89	52 - 175	0	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	2	20
4-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
Chlorodibromomethane	25.0	27.6		ug/L		110	78 - 145	0	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	87 - 118	0	20
1,3-Dichloropropane	25.0	26.8		ug/L		107	82 - 128	1	20
1,1-Dichloropropene	25.0	24.9		ug/L		100	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	26.4		ug/L		106	72 - 136	6	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95238/6

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Ethylene Dibromide	25.0	28.0		ug/L		112	70 - 130	1	20
Dibromomethane	25.0	26.1		ug/L		104	70 - 130	1	20
Dichlorodifluoromethane	25.0	21.1		ug/L		84	33 - 125	0	20
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130	1	20
1,2-Dichloroethane	25.0	22.6		ug/L		90	70 - 126	0	20
1,1-Dichloroethene	25.0	22.4		ug/L		90	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	27.3		ug/L		109	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	19.7		ug/L		79	68 - 118	2	20
1,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	88 - 137	1	20
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	83 - 140	1	20
Ethylbenzene	25.0	25.0		ug/L		100	86 - 135	1	20
Hexachlorobutadiene	25.0	25.7		ug/L		103	70 - 130	0	20
2-Hexanone	125	110		ug/L		88	60 - 164	4	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	2	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	2	20
Methylene Chloride	25.0	22.7		ug/L		91	73 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	63 - 165	2	20
Naphthalene	25.0	30.1		ug/L		120	78 - 135	7	20
N-Propylbenzene	25.0	23.2		ug/L		93	70 - 130	3	20
Styrene	25.0	26.3		ug/L		105	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130	0	20
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130	2	20
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130	2	20
Toluene	25.0	25.1		ug/L		100	83 - 129	2	20
1,2,3-Trichlorobenzene	25.0	29.3		ug/L		117	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	27.8		ug/L		111	70 - 130	3	20
1,1,1-Trichloroethane	25.0	23.4		ug/L		94	70 - 130	2	20
1,1,2-Trichloroethane	25.0	26.9		ug/L		108	82 - 128	1	20
Trichloroethene	25.0	25.6		ug/L		102	70 - 130	2	20
Trichlorofluoromethane	25.0	23.3		ug/L		93	72 - 135	3	20
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9		ug/L		96	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 132	2	20
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	2	20
Vinyl acetate	25.0	24.5		ug/L		98	43 - 163	6	20
Vinyl chloride	25.0	21.2		ug/L		85	65 - 156	2	20
m-Xylene & p-Xylene	50.0	48.8		ug/L		98	70 - 142	1	20
o-Xylene	25.0	24.5		ug/L		98	89 - 136	2	20
2,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 140	2	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	87		67 - 130
Toluene-d8 (Surr)	99		70 - 130

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95238/8

Matrix: Water

Analysis Batch: 95238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	446		ug/L		89	62 - 117	2	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	88		67 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 720-36241-1 MS

Matrix: Water

Analysis Batch: 95238

Client Sample ID: DEEP

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	ND		25.0	21.7		ug/L		87	60 - 138
Acetone	ND		125	66.9	F	ug/L		54	60 - 140
Benzene	ND		25.0	24.8		ug/L		99	60 - 140
Dichlorobromomethane	ND		25.0	23.7		ug/L		95	60 - 140
Bromobenzene	ND		25.0	25.3		ug/L		101	60 - 140
Chlorobromomethane	ND		25.0	23.9		ug/L		96	60 - 140
Bromoform	ND		25.0	23.0		ug/L		92	56 - 140
Bromomethane	ND		25.0	25.5		ug/L		102	23 - 140
2-Butanone (MEK)	ND		125	95.2		ug/L		76	60 - 140
n-Butylbenzene	ND		25.0	26.9		ug/L		108	60 - 140
sec-Butylbenzene	ND		25.0	26.5		ug/L		106	60 - 140
tert-Butylbenzene	ND		25.0	26.1		ug/L		104	60 - 140
Carbon disulfide	ND		25.0	23.6		ug/L		94	38 - 140
Carbon tetrachloride	ND		25.0	24.7		ug/L		99	60 - 140
Chlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140
Chloroethane	ND		25.0	24.2		ug/L		97	51 - 140
Chloroform	ND		25.0	22.9		ug/L		92	60 - 140
Chloromethane	ND		25.0	22.2		ug/L		89	52 - 140
2-Chlorotoluene	ND		25.0	25.2		ug/L		101	60 - 140
4-Chlorotoluene	ND		25.0	24.6		ug/L		98	60 - 140
Chlorodibromomethane	ND		25.0	24.0		ug/L		96	60 - 140
1,2-Dichlorobenzene	ND		25.0	24.6		ug/L		98	60 - 140
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,3-Dichloropropane	ND		25.0	23.3		ug/L		93	60 - 140
1,1-Dichloropropene	ND		25.0	24.8		ug/L		99	60 - 140
1,2-Dibromo-3-Chloropropane	ND		25.0	24.4		ug/L		98	60 - 140
Ethylene Dibromide	ND		25.0	23.8		ug/L		95	60 - 140
Dibromomethane	ND		25.0	22.6		ug/L		90	60 - 140
Dichlorodifluoromethane	ND		25.0	21.5		ug/L		86	38 - 140
1,1-Dichloroethane	ND		25.0	23.0		ug/L		92	60 - 140
1,2-Dichloroethane	ND		25.0	20.0		ug/L		80	60 - 140
1,1-Dichloroethene	ND		25.0	22.9		ug/L		92	60 - 140
cis-1,2-Dichloroethene	ND		25.0	26.4		ug/L		106	60 - 140
trans-1,2-Dichloroethene	ND		25.0	19.6		ug/L		78	60 - 140
1,2-Dichloropropane	ND		25.0	23.6		ug/L		94	60 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36241-1 MS

Matrix: Water

Analysis Batch: 95238

Client Sample ID: DEEP

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
cis-1,3-Dichloropropene	ND		25.0	23.3		ug/L		93	60 - 140	
trans-1,3-Dichloropropene	ND		25.0	23.6		ug/L		94	60 - 140	
Ethylbenzene	ND		25.0	25.3		ug/L		101	60 - 140	
Hexachlorobutadiene	ND		25.0	26.4		ug/L		106	60 - 140	
2-Hexanone	ND		125	90.8		ug/L		73	60 - 140	
Isopropylbenzene	ND		25.0	25.6		ug/L		102	60 - 140	
4-Isopropyltoluene	ND		25.0	26.5		ug/L		106	60 - 140	
Methylene Chloride	ND		25.0	21.3		ug/L		85	40 - 140	
4-Methyl-2-pentanone (MIBK)	ND		125	102		ug/L		82	60 - 140	
Naphthalene	ND		25.0	26.7		ug/L		107	56 - 140	
N-Propylbenzene	ND		25.0	25.1		ug/L		100	60 - 140	
Styrene	ND		25.0	21.5		ug/L		86	60 - 140	
1,1,1,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	60 - 140	
1,1,2,2-Tetrachloroethane	ND		25.0	23.2		ug/L		93	60 - 140	
Tetrachloroethene	ND		25.0	24.9		ug/L		100	60 - 140	
Toluene	ND		25.0	25.6		ug/L		101	60 - 140	
1,2,3-Trichlorobenzene	ND		25.0	26.3		ug/L		105	60 - 140	
1,2,4-Trichlorobenzene	ND		25.0	25.6		ug/L		102	60 - 140	
1,1,1-Trichloroethane	ND		25.0	23.6		ug/L		94	60 - 140	
1,1,2-Trichloroethane	ND		25.0	23.2		ug/L		93	60 - 140	
Trichloroethene	ND		25.0	25.2		ug/L		101	60 - 140	
Trichlorofluoromethane	ND		25.0	24.2		ug/L		97	60 - 140	
1,2,3-Trichloropropane	ND		25.0	23.9		ug/L		96	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.1		ug/L		96	60 - 140	
1,2,4-Trimethylbenzene	ND		25.0	25.0		ug/L		100	60 - 140	
1,3,5-Trimethylbenzene	ND		25.0	26.1		ug/L		104	60 - 140	
Vinyl acetate	ND		25.0	18.3		ug/L		73	40 - 140	
Vinyl chloride	ND		25.0	21.9		ug/L		88	58 - 140	
m-Xylene & p-Xylene	ND		50.0	48.9		ug/L		98	60 - 140	
o-Xylene	ND		25.0	24.4		ug/L		98	60 - 140	
2,2-Dichloropropane	ND		25.0	23.4		ug/L		94	60 - 140	

Surrogate	MS MS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		67 - 130
1,2-Dichloroethane-d4 (Surr)	78		67 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 720-36241-1 MSD

Matrix: Water

Analysis Batch: 95238

Client Sample ID: DEEP

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Methyl tert-butyl ether	ND		25.0	27.1	F	ug/L		108	60 - 138	22	20
Acetone	ND		125	75.0		ug/L		60	60 - 140	11	20
Benzene	ND		25.0	25.7		ug/L		103	60 - 140	4	20
Dichlorobromomethane	ND		25.0	26.6		ug/L		106	60 - 140	12	20
Bromobenzene	ND		25.0	26.1		ug/L		104	60 - 140	3	20
Chlorobromomethane	ND		25.0	27.6		ug/L		110	60 - 140	14	20
Bromoform	ND		25.0	27.5		ug/L		110	56 - 140	18	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36241-1 MSD

Matrix: Water

Analysis Batch: 95238

Client Sample ID: DEEP

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	
Bromomethane	ND		25.0	25.8		ug/L		103	23 - 140	1	20
2-Butanone (MEK)	ND		125	109		ug/L		87	60 - 140	13	20
n-Butylbenzene	ND		25.0	25.1		ug/L		100	60 - 140	7	20
sec-Butylbenzene	ND		25.0	24.4		ug/L		98	60 - 140	8	20
tert-Butylbenzene	ND		25.0	24.4		ug/L		98	60 - 140	7	20
Carbon disulfide	ND		25.0	23.1		ug/L		92	38 - 140	2	20
Carbon tetrachloride	ND		25.0	24.3		ug/L		97	60 - 140	2	20
Chlorobenzene	ND		25.0	25.2		ug/L		101	60 - 140	2	20
Chloroethane	ND		25.0	23.9		ug/L		96	51 - 140	1	20
Chloroform	ND		25.0	24.2		ug/L		97	60 - 140	6	20
Chloromethane	ND		25.0	22.2		ug/L		89	52 - 140	0	20
2-Chlorotoluene	ND		25.0	24.4		ug/L		98	60 - 140	3	20
4-Chlorotoluene	ND		25.0	23.8		ug/L		95	60 - 140	3	20
Chlorodibromomethane	ND		25.0	29.1		ug/L		116	60 - 140	19	20
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	60 - 140	4	20
1,3-Dichlorobenzene	ND		25.0	25.5		ug/L		102	60 - 140	0	20
1,4-Dichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140	2	20
1,3-Dichloropropane	ND		25.0	28.2		ug/L		113	60 - 140	19	20
1,1-Dichloropropene	ND		25.0	24.5		ug/L		98	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	27.5		ug/L		110	60 - 140	12	20
Ethylene Dibromide	ND		25.0	29.5	F	ug/L		118	60 - 140	21	20
Dibromomethane	ND		25.0	27.3		ug/L		109	60 - 140	19	20
Dichlorodifluoromethane	ND		25.0	20.8		ug/L		83	38 - 140	3	20
1,1-Dichloroethane	ND		25.0	23.7		ug/L		95	60 - 140	3	20
1,2-Dichloroethane	ND		25.0	23.7		ug/L		95	60 - 140	17	20
1,1-Dichloroethene	ND		25.0	22.0		ug/L		88	60 - 140	4	20
cis-1,2-Dichloroethene	ND		25.0	27.8		ug/L		111	60 - 140	5	20
trans-1,2-Dichloroethene	ND		25.0	19.6		ug/L		78	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	25.9		ug/L		104	60 - 140	9	20
cis-1,3-Dichloropropene	ND		25.0	26.7		ug/L		107	60 - 140	14	20
trans-1,3-Dichloropropene	ND		25.0	28.2		ug/L		113	60 - 140	18	20
Ethylbenzene	ND		25.0	24.7		ug/L		99	60 - 140	2	20
Hexachlorobutadiene	ND		25.0	24.6		ug/L		98	60 - 140	7	20
2-Hexanone	ND		125	112	F	ug/L		90	60 - 140	21	20
Isopropylbenzene	ND		25.0	24.9		ug/L		100	60 - 140	3	20
4-Isopropyltoluene	ND		25.0	24.7		ug/L		99	60 - 140	7	20
Methylene Chloride	ND		25.0	23.3		ug/L		93	40 - 140	9	20
4-Methyl-2-pentanone (MIBK)	ND		125	126	F	ug/L		101	60 - 140	21	20
Naphthalene	ND		25.0	31.0		ug/L		124	56 - 140	15	20
N-Propylbenzene	ND		25.0	23.1		ug/L		92	60 - 140	8	20
Styrene	ND		25.0	22.9		ug/L		92	60 - 140	6	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	60 - 140	7	20
1,1,1,2,2-Tetrachloroethane	ND		25.0	26.6		ug/L		106	60 - 140	14	20
Tetrachloroethene	ND		25.0	24.8		ug/L		99	60 - 140	0	20
Toluene	ND		25.0	25.0		ug/L		99	60 - 140	2	20
1,2,3-Trichlorobenzene	ND		25.0	29.1		ug/L		116	60 - 140	10	20
1,2,4-Trichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140	6	20
1,1,1-Trichloroethane	ND		25.0	23.5		ug/L		94	60 - 140	0	20
1,1,2-Trichloroethane	ND		25.0	28.5	F	ug/L		114	60 - 140	21	20
Trichloroethene	ND		25.0	25.4		ug/L		102	60 - 140	1	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36241-1 MSD

Matrix: Water

Analysis Batch: 95238

Client Sample ID: DEEP

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	% Rec	% Rec.		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Trichlorofluoromethane	ND		25.0	23.1		ug/L		92	60 - 140	5	20
1,2,3-Trichloropropane	ND		25.0	27.0		ug/L		108	60 - 140	12	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.5		ug/L		94	60 - 140	3	20
1,2,4-Trimethylbenzene	ND		25.0	24.2		ug/L		97	60 - 140	3	20
1,3,5-Trimethylbenzene	ND		25.0	24.6		ug/L		98	60 - 140	6	20
Vinyl acetate	ND		25.0	22.3		ug/L		89	40 - 140	20	20
Vinyl chloride	ND		25.0	21.0		ug/L		84	58 - 140	4	20
m-Xylene & p-Xylene	ND		50.0	48.2		ug/L		96	60 - 140	1	20
o-Xylene	ND		25.0	24.7		ug/L		99	60 - 140	1	20
2,2-Dichloropropane	ND		25.0	22.8		ug/L		91	60 - 140	3	20

Surrogate	MSD % Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	89		67 - 130
Toluene-d8 (Surr)	99		70 - 130

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-95476/1-A

Matrix: Water

Analysis Batch: 95548

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 95476

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		50		ug/L		07/19/11 11:56	07/20/11 09:16	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.06		0 - 5	07/19/11 11:56	07/20/11 09:16	1
p-Terphenyl	92		31 - 150	07/19/11 11:56	07/20/11 09:16	1

Lab Sample ID: LCS 720-95476/2-A

Matrix: Water

Analysis Batch: 95548

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 95476

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Diesel Range Organics [C10-C28]	2500	1980		ug/L		79	32 - 119	

Surrogate	LCS % Recovery	LCS Qualifier	Limits
p-Terphenyl	102		31 - 150

Lab Sample ID: LCSD 720-95476/3-A

Matrix: Water

Analysis Batch: 95548

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 95476

Analyte	Spike Added	LCSD	LCSD	Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Diesel Range Organics [C10-C28]	2500	1940		ug/L		78	32 - 119	2	35	

QC Sample Results

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-95476/3-A

Matrix: Water

Analysis Batch: 95548

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 95476

<i>Surrogate</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>% Recovery</i>	<i>Qualifier</i>	
<i>p-Terphenyl</i>	92		31 - 150

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QC Association Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

GC/MS VOA

Analysis Batch: 95238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95238/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-95238/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-95238/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-95238/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-95238/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
720-36241-1	DEEP	Total/NA	Water	8260B/CA_LUFT MS	
720-36241-1 MS	DEEP	Total/NA	Water	8260B/CA_LUFT MS	
720-36241-1 MSD	DEEP	Total/NA	Water	8260B/CA_LUFT MS	
720-36241-2	SHALLOW	Total/NA	Water	8260B/CA_LUFT MS	

GC Semi VOA

Prep Batch: 95476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95476/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-95476/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-95476/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
720-36241-1	DEEP	Silica Gel Cleanup	Water	3510C SGC	
720-36241-2	SHALLOW	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 95548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95476/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	95476
LCS 720-95476/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	95476
LCSD 720-95476/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	95476
720-36241-1	DEEP	Silica Gel Cleanup	Water	8015B	95476
720-36241-2	SHALLOW	Silica Gel Cleanup	Water	8015B	95476

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Client Sample ID: DEEP

Lab Sample ID: 720-36241-1

Date Collected: 07/13/11 00:00

Matrix: Water

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	95238	07/15/11 13:03	LL	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			95476	07/19/11 11:56	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95548	07/20/11 10:26	DH	TAL SF

Client Sample ID: SHALLOW

Lab Sample ID: 720-36241-2

Date Collected: 07/13/11 00:00

Matrix: Water

Date Received: 07/13/11 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	95238	07/15/11 15:27	LL	TAL SF
Silica Gel Cleanup	Prep	3510C SGC			95476	07/19/11 11:56	RU	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95548	07/20/11 10:50	DH	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Method Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

Client: Engeo, Inc.
Project/Site: Macedo Remediation

TestAmerica Job ID: 720-36241-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36241-1	DEEP	Water	07/13/11 00:00	07/13/11 17:20
720-36241-2	SHALLOW	Water	07/13/11 00:00	07/13/11 17:20

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Report To **Analysis Request**

Attn: RICHARD Gandolfo
 Company: ENGEO
 Address: _____
 Phone: _____ Email: _____
 Bill To: _____ Sampled By: R. Gandolfo
 Attn: _____ Phone: _____

Sample ID	Date	Time	Mat. in.	Preserv.	TPH EPA 8260B <input checked="" type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other _____	EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, ED8 <input type="checkbox"/> Ethanol	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS EPA 827D <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 601074707471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	Low Level Metals by EPA 200.8/6020 (ICP-MS): _____	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H ₂ O)	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers
Deep	7/12/11		W	HC1/pe	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	5
Shallow	7/13/11		W	HC1/pe	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	5

Project Info **Sample Receipt**

Project Name: Macedo (off site) # of Containers: _____
 Project#: 7380.000.003 Head Space: _____
 PO#: _____ Temp: 2.8°C
 Credit Card#: _____ Conforms to record: _____

1) Relinquished by:
[Signature] 17:20
 Signature _____ Time _____
Richard Gandolfo 7/13/11
 Printed Name _____ Date _____
ENGEO
 Company _____

2) Relinquished by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

3) Relinquished by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

TAT Day 3 Day 2 Day 1 Day Other: _____
 Report: Routine Level 3 Level 4 EDD Slate Tank
 Fund EDF _____
 Special Instructions / Comments: Global ID _____
Gas (8015)

1) Received by:
[Signature] 1720
 Signature _____ Time _____
Mullen 7-13-11
 Printed Name _____ Date _____
Test America
 Company _____

2) Received by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

3) Received by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36241-1

Login Number: 36241

List Source: TestAmerica San Francisco

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-36352-1
Client Project/Site: 1000 N vasco RD

For:
Engeo, Inc.
2010 Crow Canyon Place
Suite 250
San Ramon, California 94583

Attn: Mr. Jeff Adams



Authorized for release by:
07/25/2011 05:25:01 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Case Narrative

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Job ID: 720-36352-1

Laboratory: TestAmerica San Francisco

Narrative

Job Narrative
720-36352-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The following sample 720-36352-2 was diluted due to the abundance of non-target analytes: 3 WSW- A (720-36352-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-36352-2 MS), (720-36352-2 MSD), 3 WSW- A (720-36352-2).

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 95653 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SP-I,J,K,L (720-36352-27), SP-M,N,O,P (720-36352-32).

Method(s) 8015B: Capric acid surrogate recovery for the following sample(s) was outside control limits: SP-A,B,C,D (720-36352-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Client Sample ID: 3 BASE- A

Lab Sample ID: 720-36352-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.2		1.0		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: 3 WSW- A

Lab Sample ID: 720-36352-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1100		10		mg/Kg	10		8015B	Silica Gel Clear

Client Sample ID: 3 WSW- B

Lab Sample ID: 720-36352-3

No Detections.

Client Sample ID: 1 WSW- A

Lab Sample ID: 720-36352-4

No Detections.

Client Sample ID: 1 SSW-

Lab Sample ID: 720-36352-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		0.99		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: 1 ESW-A

Lab Sample ID: 720-36352-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.4		0.99		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: 1 ESW-B

Lab Sample ID: 720-36352-7

No Detections.

Client Sample ID: 1 BASE-A

Lab Sample ID: 720-36352-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	6.6		1.0		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: 1 BASE-B

Lab Sample ID: 720-36352-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.6		1.0		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: 1 BASE-C

Lab Sample ID: 720-36352-10

No Detections.

Client Sample ID: 1 WSW-B

Lab Sample ID: 720-36352-11

No Detections.

Client Sample ID: 3 SSW

Lab Sample ID: 720-36352-12

No Detections.

Client Sample ID: SP-A,B,C,D

Lab Sample ID: 720-36352-17

Detection Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Client Sample ID: SP-A,B,C,D (Continued)

Lab Sample ID: 720-36352-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	250		240		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	57		0.99		mg/Kg	1		8015B	Silica Gel Clear

Client Sample ID: SP-E,F,G,H

Lab Sample ID: 720-36352-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	2100		250		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	360		3.0		mg/Kg	3		8015B	Silica Gel Clear

Client Sample ID: SP-I,J,K,L

Lab Sample ID: 720-36352-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	6.6		4.9		ug/Kg	1		8260B/CA_LUFTM	Total/NA
sec-Butylbenzene	5.8		4.9		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2800		240		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	720		9.9		mg/Kg	10		8015B	Silica Gel Clear
Chromium	22		2.0		mg/Kg	4		6010B	Total/NA
Nickel	28		2.0		mg/Kg	4		6010B	Total/NA
Lead	7.4		2.0		mg/Kg	4		6010B	Total/NA
Zinc	35		5.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SP-M,N,O,P

Lab Sample ID: 720-36352-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1300		250		ug/Kg	1		8260B/CA_LUFTM	Total/NA
Diesel Range Organics [C10-C28]	1200		20		mg/Kg	20		8015B	Silica Gel Clear
Chromium	21		1.9		mg/Kg	4		6010B	Total/NA
Nickel	25		1.9		mg/Kg	4		6010B	Total/NA
Lead	6.2		1.9		mg/Kg	4		6010B	Total/NA
Zinc	48		5.8		mg/Kg	4		6010B	Total/NA

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: 3 BASE- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Acetone	ND		48		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Benzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Bromobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Chlorobromomethane	ND		19		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Bromoform	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Bromomethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
2-Butanone (MEK)	ND		48		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
n-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Carbon disulfide	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Chlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Chloroethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Chloroform	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Chloromethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Dibromomethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Ethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
2-Hexanone	ND		48		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Isopropylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Methylene Chloride	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Naphthalene	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
N-Propylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Styrene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3 BASE- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Tetrachloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Toluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Trichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Vinyl acetate	ND		48		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Vinyl chloride	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Xylenes, Total	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 12:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/22/11 07:50	07/22/11 12:59	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131	07/22/11 07:50	07/22/11 12:59	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140	07/22/11 07:50	07/22/11 12:59	1
Toluene-d8 (Surr)	103		58 - 140	07/22/11 07:50	07/22/11 12:59	1

Client Sample ID: 3 WSW- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Acetone	ND		250		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Benzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Dichlorobromomethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Bromobenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Chlorobromomethane	ND		98		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Bromoform	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Bromomethane	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
2-Butanone (MEK)	ND		250		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
n-Butylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
sec-Butylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
tert-Butylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Carbon disulfide	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Carbon tetrachloride	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Chlorobenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Chloroethane	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Chloroform	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Chloromethane	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
2-Chlorotoluene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
4-Chlorotoluene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3 WSW- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2-Dichlorobenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,3-Dichlorobenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,4-Dichlorobenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,3-Dichloropropane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1-Dichloropropene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2-Dibromo-3-Chloropropane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Ethylene Dibromide	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Dibromomethane	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Dichlorodifluoromethane	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1-Dichloroethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2-Dichloroethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1-Dichloroethene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
cis-1,2-Dichloroethene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
trans-1,2-Dichloroethene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2-Dichloropropane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
cis-1,3-Dichloropropene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
trans-1,3-Dichloropropene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Ethylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Hexachlorobutadiene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
2-Hexanone	ND		250		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Isopropylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
4-Isopropyltoluene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Methylene Chloride	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
4-Methyl-2-pentanone (MIBK)	ND		250		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Naphthalene	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
N-Propylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Styrene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1,1,2-Tetrachloroethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1,2,2-Tetrachloroethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Tetrachloroethene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Toluene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2,3-Trichlorobenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2,4-Trichlorobenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1,1-Trichloroethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1,2-Trichloroethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Trichloroethene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Trichlorofluoromethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2,3-Trichloropropane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,2,4-Trimethylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
1,3,5-Trimethylbenzene	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Vinyl acetate	ND		250		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Vinyl chloride	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Xylenes, Total	ND		49		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
2,2-Dichloropropane	ND		25		ug/Kg		07/21/11 17:35	07/21/11 23:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		1200		ug/Kg		07/21/11 17:35	07/21/11 23:13	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	118		45 - 131	07/21/11 17:35	07/21/11 23:13	1
1,2-Dichloroethane-d4 (Surr)	117		60 - 140	07/21/11 17:35	07/21/11 23:13	1
Toluene-d8 (Surr)	126		58 - 140	07/21/11 17:35	07/21/11 23:13	1

Client Sample ID: 3 WSW- B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Acetone	ND		50		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Benzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Bromobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Chlorobromomethane	ND		20		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Bromoform	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Bromomethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
2-Butanone (MEK)	ND		50		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
n-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Carbon disulfide	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Chlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Chloroethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Chloroform	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Chloromethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Dibromomethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Ethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
2-Hexanone	ND		50		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Isopropylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Methylene Chloride	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3 WSW- B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Naphthalene	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
N-Propylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Styrene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Tetrachloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Toluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Trichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Vinyl acetate	ND		50		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Vinyl chloride	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Xylenes, Total	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 12:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/22/11 07:50	07/22/11 12:30	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131	07/22/11 07:50	07/22/11 12:30	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140	07/22/11 07:50	07/22/11 12:30	1
Toluene-d8 (Surr)	107		58 - 140	07/22/11 07:50	07/22/11 12:30	1

Client Sample ID: 1 WSW- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Acetone	ND		48		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Benzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Bromobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Chlorobromomethane	ND		19		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Bromoform	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Bromomethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
2-Butanone (MEK)	ND		48		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
n-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Carbon disulfide	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Chlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 WSW- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Chloroform	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Chloromethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Dibromomethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Ethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
2-Hexanone	ND		48		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Isopropylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Methylene Chloride	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Naphthalene	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
N-Propylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Styrene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Tetrachloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Toluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Trichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Vinyl acetate	ND		48		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Vinyl chloride	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 WSW- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		9.6		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/22/11 07:50	07/22/11 13:28	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		45 - 131				07/22/11 07:50	07/22/11 13:28	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140				07/22/11 07:50	07/22/11 13:28	1
Toluene-d8 (Surr)	112		58 - 140				07/22/11 07:50	07/22/11 13:28	1

Client Sample ID: 1 SSW-
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Acetone	ND		46		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Benzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Dichlorobromomethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Bromobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Chlorobromomethane	ND		18		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Bromoform	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Bromomethane	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
2-Butanone (MEK)	ND		46		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
n-Butylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
sec-Butylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
tert-Butylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Carbon disulfide	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Carbon tetrachloride	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Chlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Chloroethane	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Chloroform	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Chloromethane	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
2-Chlorotoluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
4-Chlorotoluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Chlorodibromomethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,3-Dichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1-Dichloropropene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Ethylene Dibromide	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Dibromomethane	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1-Dichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,2-Dichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1-Dichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 SSW-
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Ethylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Hexachlorobutadiene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
2-Hexanone	ND		46		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Isopropylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
4-Isopropyltoluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Methylene Chloride	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Naphthalene	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
N-Propylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Styrene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Tetrachloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Toluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Trichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Trichlorofluoromethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Vinyl acetate	ND		46		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Vinyl chloride	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Xylenes, Total	ND		9.2		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
2,2-Dichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 13:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		07/22/11 07:50	07/22/11 13:56	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	07/22/11 07:50	07/22/11 13:56	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140	07/22/11 07:50	07/22/11 13:56	1
Toluene-d8 (Surr)	104		58 - 140	07/22/11 07:50	07/22/11 13:56	1

Client Sample ID: 1 ESW-A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Acetone	ND		48		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Benzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Bromobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Chlorobromomethane	ND		19		ug/Kg		07/22/11 07:50	07/22/11 14:25	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 ESW-A

Lab Sample ID: 720-36352-6

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Bromomethane	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
2-Butanone (MEK)	ND		48		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
n-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Carbon disulfide	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Chlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Chloroethane	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Chloroform	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Chloromethane	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Dibromomethane	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Ethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
2-Hexanone	ND		48		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Isopropylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Methylene Chloride	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Naphthalene	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
N-Propylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Styrene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Tetrachloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Toluene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 ESW-A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Trichloroethene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Vinyl acetate	ND		48		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Vinyl chloride	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Xylenes, Total	ND		9.7		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/22/11 07:50	07/22/11 14:25	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131				07/22/11 07:50	07/22/11 14:25	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140				07/22/11 07:50	07/22/11 14:25	1
Toluene-d8 (Surr)	104		58 - 140				07/22/11 07:50	07/22/11 14:25	1

Client Sample ID: 1 ESW-B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Acetone	ND		47		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Benzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Dichlorobromomethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Bromobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Chlorobromomethane	ND		19		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Bromoform	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Bromomethane	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
2-Butanone (MEK)	ND		47		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
n-Butylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
sec-Butylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
tert-Butylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Carbon disulfide	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Carbon tetrachloride	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Chlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Chloroethane	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Chloroform	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Chloromethane	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
2-Chlorotoluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
4-Chlorotoluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Chlorodibromomethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,3-Dichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1-Dichloropropene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 ESW-B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Ethylene Dibromide	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Dibromomethane	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1-Dichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,2-Dichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1-Dichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,2-Dichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Ethylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Hexachlorobutadiene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
2-Hexanone	ND		47		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Isopropylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
4-Isopropyltoluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Methylene Chloride	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Naphthalene	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
N-Propylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Styrene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Tetrachloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Toluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Trichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Trichlorofluoromethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Vinyl acetate	ND		47		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Vinyl chloride	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Xylenes, Total	ND		9.5		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
2,2-Dichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/22/11 07:50	07/22/11 14:54	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131				07/22/11 07:50	07/22/11 14:54	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140				07/22/11 07:50	07/22/11 14:54	1
Toluene-d8 (Surr)	108		58 - 140				07/22/11 07:50	07/22/11 14:54	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: 1 BASE-A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Acetone	ND		47		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Benzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Dichlorobromomethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Bromobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Chlorobromomethane	ND		19		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Bromoform	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Bromomethane	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
2-Butanone (MEK)	ND		47		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
n-Butylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
sec-Butylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
tert-Butylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Carbon disulfide	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Carbon tetrachloride	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Chlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Chloroethane	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Chloroform	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Chloromethane	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
2-Chlorotoluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
4-Chlorotoluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Chlorodibromomethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,3-Dichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,1-Dichloropropene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Ethylene Dibromide	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Dibromomethane	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,1-Dichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2-Dichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,1-Dichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2-Dichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Ethylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Hexachlorobutadiene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
2-Hexanone	ND		47		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Isopropylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
4-Isopropyltoluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Methylene Chloride	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Naphthalene	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
N-Propylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Styrene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 BASE-A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Tetrachloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Toluene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Trichloroethene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Trichlorofluoromethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Vinyl acetate	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Vinyl chloride	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Xylenes, Total	ND		9.4		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
2,2-Dichloropropane	ND		4.7		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/22/11 07:50	07/22/11 15:22	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131				07/22/11 07:50	07/22/11 15:22	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140				07/22/11 07:50	07/22/11 15:22	1
Toluene-d8 (Surr)	105		58 - 140				07/22/11 07:50	07/22/11 15:22	1

Client Sample ID: 1 BASE-B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Acetone	ND		46		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Benzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Dichlorobromomethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Bromobenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Chlorobromomethane	ND		18		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Bromoform	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Bromomethane	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
2-Butanone (MEK)	ND		46		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
n-Butylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
sec-Butylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
tert-Butylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Carbon disulfide	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Carbon tetrachloride	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Chlorobenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Chloroethane	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Chloroform	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Chloromethane	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
2-Chlorotoluene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
4-Chlorotoluene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 BASE-B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,3-Dichloropropane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1-Dichloropropene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Ethylene Dibromide	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Dibromomethane	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1-Dichloroethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2-Dichloroethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1-Dichloroethene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2-Dichloropropane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Ethylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Hexachlorobutadiene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
2-Hexanone	ND		46		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Isopropylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
4-Isopropyltoluene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Methylene Chloride	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Naphthalene	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
N-Propylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Styrene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Tetrachloroethene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Toluene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Trichloroethene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Trichlorofluoromethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Vinyl acetate	ND		46		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Vinyl chloride	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Xylenes, Total	ND		9.2		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
2,2-Dichloropropane	ND		4.6		ug/Kg		07/23/11 09:47	07/23/11 14:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		07/23/11 09:47	07/23/11 14:27	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131	07/23/11 09:47	07/23/11 14:27	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 140	07/23/11 09:47	07/23/11 14:27	1
Toluene-d8 (Surr)	98		58 - 140	07/23/11 09:47	07/23/11 14:27	1

Client Sample ID: 1 BASE-C
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Acetone	ND		50		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Benzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Bromobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Chlorobromomethane	ND		20		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Bromoform	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Bromomethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
2-Butanone (MEK)	ND		50		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
n-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Carbon disulfide	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Chlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Chloroethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Chloroform	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Chloromethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Dibromomethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Ethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
2-Hexanone	ND		50		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Isopropylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Methylene Chloride	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 BASE-C
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Naphthalene	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
N-Propylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Styrene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Tetrachloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Toluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Trichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Vinyl acetate	ND		50		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Vinyl chloride	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Xylenes, Total	ND		9.9		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/22/11 07:50	07/22/11 16:20	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131				07/22/11 07:50	07/22/11 16:20	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				07/22/11 07:50	07/22/11 16:20	1
Toluene-d8 (Surr)	106		58 - 140				07/22/11 07:50	07/22/11 16:20	1

Client Sample ID: 1 WSW-B
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Acetone	ND		46		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Benzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Dichlorobromomethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Bromobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Chlorobromomethane	ND		19		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Bromoform	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Bromomethane	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
2-Butanone (MEK)	ND		46		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
n-Butylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
sec-Butylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
tert-Butylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Carbon disulfide	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Carbon tetrachloride	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Chlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 WSW-B
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Chloroform	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Chloromethane	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
2-Chlorotoluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
4-Chlorotoluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Chlorodibromomethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,3-Dichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1-Dichloropropene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Ethylene Dibromide	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Dibromomethane	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Dichlorodifluoromethane	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1-Dichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2-Dichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1-Dichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2-Dichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Ethylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Hexachlorobutadiene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
2-Hexanone	ND		46		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Isopropylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
4-Isopropyltoluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Methylene Chloride	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Naphthalene	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
N-Propylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Styrene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Tetrachloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Toluene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Trichloroethene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Trichlorofluoromethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Vinyl acetate	ND		46		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Vinyl chloride	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 1 WSW-B
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		9.3		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
2,2-Dichloropropane	ND		4.6		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		07/22/11 07:50	07/22/11 16:48	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131				07/22/11 07:50	07/22/11 16:48	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140				07/22/11 07:50	07/22/11 16:48	1
Toluene-d8 (Surr)	104		58 - 140				07/22/11 07:50	07/22/11 16:48	1

Client Sample ID: 3 SSW
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Acetone	ND		48		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Benzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Dichlorobromomethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Bromobenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Chlorobromomethane	ND		19		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Bromoform	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Bromomethane	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
2-Butanone (MEK)	ND		48		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
n-Butylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
sec-Butylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
tert-Butylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Carbon disulfide	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Carbon tetrachloride	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Chlorobenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Chloroethane	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Chloroform	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Chloromethane	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
2-Chlorotoluene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
4-Chlorotoluene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Chlorodibromomethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,3-Dichloropropane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1-Dichloropropene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Ethylene Dibromide	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Dibromomethane	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1-Dichloroethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,2-Dichloroethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1-Dichloroethene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: 3 SSW
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Ethylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Hexachlorobutadiene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
2-Hexanone	ND		48		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Isopropylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
4-Isopropyltoluene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Methylene Chloride	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Naphthalene	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
N-Propylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Styrene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Tetrachloroethene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Toluene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Trichloroethene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Trichlorofluoromethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Vinyl acetate	ND		48		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Vinyl chloride	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Xylenes, Total	ND		9.6		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
2,2-Dichloropropane	ND		4.8		ug/Kg		07/23/11 09:47	07/23/11 14:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		07/23/11 09:47	07/23/11 14:58	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131	07/23/11 09:47	07/23/11 14:58	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 140	07/23/11 09:47	07/23/11 14:58	1
Toluene-d8 (Surr)	97		58 - 140	07/23/11 09:47	07/23/11 14:58	1

Client Sample ID: SP-A,B,C,D
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Acetone	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Benzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Dichlorobromomethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Bromobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Chlorobromomethane	ND		19		ug/Kg		07/21/11 19:34	07/22/11 05:07	1

TestAmerica San Francisco

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP-A,B,C,D
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Bromomethane	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
2-Butanone (MEK)	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
n-Butylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
sec-Butylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
tert-Butylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Carbon disulfide	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Carbon tetrachloride	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Chlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Chloroethane	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Chloroform	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Chloromethane	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
2-Chlorotoluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
4-Chlorotoluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Chlorodibromomethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,3-Dichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,1-Dichloropropene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Ethylene Dibromide	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Dibromomethane	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,1-Dichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2-Dichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,1-Dichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2-Dichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Ethylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Hexachlorobutadiene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
2-Hexanone	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Isopropylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
4-Isopropyltoluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Methylene Chloride	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Naphthalene	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
N-Propylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Styrene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Tetrachloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Toluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP-A,B,C,D
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Trichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Trichlorofluoromethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Vinyl acetate	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Vinyl chloride	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Xylenes, Total	ND		9.7		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
2,2-Dichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
Gasoline Range Organics (GRO)	250		240		ug/Kg		07/21/11 19:34	07/22/11 05:07	1
-C5-C12									

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		45 - 131	07/21/11 19:34	07/22/11 05:07	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140	07/21/11 19:34	07/22/11 05:07	1
Toluene-d8 (Surr)	95		58 - 140	07/21/11 19:34	07/22/11 05:07	1

Client Sample ID: SP-E,F,G,H
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Acetone	ND		47		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Benzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Dichlorobromomethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Bromobenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Chlorobromomethane	ND		19		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Bromoform	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Bromomethane	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
2-Butanone (MEK)	ND		47		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
n-Butylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
sec-Butylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
tert-Butylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Carbon disulfide	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Carbon tetrachloride	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Chlorobenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Chloroethane	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Chloroform	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Chloromethane	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
2-Chlorotoluene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
4-Chlorotoluene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Chlorodibromomethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,3-Dichloropropane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1-Dichloropropene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP-E,F,G,H
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Ethylene Dibromide	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Dibromomethane	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1-Dichloroethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,2-Dichloroethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1-Dichloroethene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,2-Dichloropropane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Ethylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Hexachlorobutadiene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
2-Hexanone	ND		47		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Isopropylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
4-Isopropyltoluene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Methylene Chloride	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Naphthalene	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
N-Propylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Styrene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Tetrachloroethene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Toluene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Trichloroethene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Trichlorofluoromethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Vinyl acetate	ND		47		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Vinyl chloride	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Xylenes, Total	ND		9.5		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
2,2-Dichloropropane	ND		4.7		ug/Kg		07/21/11 19:34	07/22/11 06:40	1
Gasoline Range Organics (GRO)	2100		250		ug/Kg		07/23/11 09:47	07/23/11 16:00	1
-C5-C12									

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		45 - 131	07/21/11 19:34	07/22/11 06:40	1
4-Bromofluorobenzene	96		45 - 131	07/23/11 09:47	07/23/11 16:00	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 140	07/21/11 19:34	07/22/11 06:40	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140	07/23/11 09:47	07/23/11 16:00	1
Toluene-d8 (Surr)	96		58 - 140	07/21/11 19:34	07/22/11 06:40	1
Toluene-d8 (Surr)	94		58 - 140	07/23/11 09:47	07/23/11 16:00	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: SP-I,J,K,L
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-27
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Acetone	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Benzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Dichlorobromomethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Bromobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Bromoform	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Bromomethane	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
2-Butanone (MEK)	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
n-Butylbenzene	6.6		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
sec-Butylbenzene	5.8		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
tert-Butylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Carbon disulfide	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Carbon tetrachloride	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Chlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Chloroethane	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Chloroform	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Chloromethane	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
2-Chlorotoluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
4-Chlorotoluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Chlorodibromomethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,3-Dichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,1-Dichloropropene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Ethylene Dibromide	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Dibromomethane	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,1-Dichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2-Dichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,1-Dichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2-Dichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Ethylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Hexachlorobutadiene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
2-Hexanone	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Isopropylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
4-Isopropyltoluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Methylene Chloride	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Naphthalene	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
N-Propylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Styrene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP-I,J,K,L
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-27
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Tetrachloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Toluene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Trichloroethene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Trichlorofluoromethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Vinyl acetate	ND		49		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Vinyl chloride	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Xylenes, Total	ND		9.8		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
2,2-Dichloropropane	ND		4.9		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
Gasoline Range Organics (GRO)	2800		240		ug/Kg		07/21/11 19:34	07/22/11 05:38	1
-C5-C12									

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	07/21/11 19:34	07/22/11 05:38	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 140	07/21/11 19:34	07/22/11 05:38	1
Toluene-d8 (Surr)	97		58 - 140	07/21/11 19:34	07/22/11 05:38	1

Client Sample ID: SP-M,N,O,P
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-32
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Acetone	ND		50		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Benzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Bromobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Bromoform	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Bromomethane	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
2-Butanone (MEK)	ND		50		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
n-Butylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Carbon disulfide	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Chlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Chloroethane	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Chloroform	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Chloromethane	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: SP-M,N,O,P
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-32
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Dibromomethane	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Ethylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
2-Hexanone	ND		50		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Isopropylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Methylene Chloride	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Naphthalene	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
N-Propylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Styrene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Tetrachloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Toluene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Trichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Vinyl acetate	ND		50		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Vinyl chloride	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Xylenes, Total	ND		9.9		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/22/11 06:09	1
Gasoline Range Organics (GRO)	1300		250		ug/Kg		07/23/11 09:47	07/23/11 16:31	1
-C5-C12									

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene	92		45 - 131	07/21/11 19:34	07/22/11 06:09	1
4-Bromofluorobenzene	84		45 - 131	07/23/11 09:47	07/23/11 16:31	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 140	07/21/11 19:34	07/22/11 06:09	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 140	07/23/11 09:47	07/23/11 16:31	1
Toluene-d8 (Surr)	92		58 - 140	07/21/11 19:34	07/22/11 06:09	1
Toluene-d8 (Surr)	97		58 - 140	07/23/11 09:47	07/23/11 16:31	1

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Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: 3 BASE- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.2		1.0		mg/Kg		07/21/11 09:57	07/22/11 15:46	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.4		0 - 5				07/21/11 09:57	07/22/11 15:46	1
p-Terphenyl	107		38 - 148				07/21/11 09:57	07/22/11 15:46	1

Client Sample ID: 3 WSW- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1100		10		mg/Kg		07/21/11 09:57	07/22/11 13:49	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/21/11 09:57	07/22/11 13:49	10
p-Terphenyl	0	D	38 - 148				07/21/11 09:57	07/22/11 13:49	10

Client Sample ID: 3 WSW- B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/21/11 09:57	07/22/11 16:10	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.1		0 - 5				07/21/11 09:57	07/22/11 16:10	1
p-Terphenyl	101		38 - 148				07/21/11 09:57	07/22/11 16:10	1

Client Sample ID: 1 WSW- A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		07/21/11 09:57	07/22/11 16:33	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 5				07/21/11 09:57	07/22/11 16:33	1
p-Terphenyl	97		38 - 148				07/21/11 09:57	07/22/11 16:33	1

Client Sample ID: 1 SSW-
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.1		0.99		mg/Kg		07/21/11 09:57	07/22/11 16:57	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.4		0 - 5				07/21/11 09:57	07/22/11 16:57	1
p-Terphenyl	107		38 - 148				07/21/11 09:57	07/22/11 16:57	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: 1 ESW-A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.4		0.99		mg/Kg		07/21/11 09:57	07/22/11 17:21	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.6		0 - 5				07/21/11 09:57	07/22/11 17:21	1
p-Terphenyl	105		38 - 148				07/21/11 09:57	07/22/11 17:21	1

Client Sample ID: 1 ESW-B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/21/11 09:57	07/22/11 17:44	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.2		0 - 5				07/21/11 09:57	07/22/11 17:44	1
p-Terphenyl	106		38 - 148				07/21/11 09:57	07/22/11 17:44	1

Client Sample ID: 1 BASE-A
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.6		1.0		mg/Kg		07/21/11 09:57	07/22/11 18:08	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.7		0 - 5				07/21/11 09:57	07/22/11 18:08	1
p-Terphenyl	94		38 - 148				07/21/11 09:57	07/22/11 18:08	1

Client Sample ID: 1 BASE-B
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-9
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.6		1.0		mg/Kg		07/21/11 09:57	07/22/11 18:31	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.8		0 - 5				07/21/11 09:57	07/22/11 18:31	1
p-Terphenyl	97		38 - 148				07/21/11 09:57	07/22/11 18:31	1

Client Sample ID: 1 BASE-C
Date Collected: 07/18/11 09:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-10
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/22/11 13:06	07/23/11 11:43	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.02		0 - 5				07/22/11 13:06	07/23/11 11:43	1
p-Terphenyl	98		38 - 148				07/22/11 13:06	07/23/11 11:43	1

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: 1 WSW-B
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-11
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/22/11 13:06	07/23/11 12:07	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 5				07/22/11 13:06	07/23/11 12:07	1
p-Terphenyl	101		38 - 148				07/22/11 13:06	07/23/11 12:07	1

Client Sample ID: 3 SSW
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/22/11 13:06	07/23/11 12:31	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.01		0 - 5				07/22/11 13:06	07/23/11 12:31	1
p-Terphenyl	96		38 - 148				07/22/11 13:06	07/23/11 12:31	1

Client Sample ID: SP-A,B,C,D
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	57		0.99		mg/Kg		07/22/11 13:06	07/25/11 10:10	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	10	X	0 - 5				07/22/11 13:06	07/25/11 10:10	1
p-Terphenyl	79		38 - 148				07/22/11 13:06	07/25/11 10:10	1

Client Sample ID: SP-E,F,G,H
Date Collected: 07/18/11 11:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	360		3.0		mg/Kg		07/22/11 13:06	07/25/11 10:34	3
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/22/11 13:06	07/25/11 10:34	3
p-Terphenyl	71		38 - 148				07/22/11 13:06	07/25/11 10:34	3

Client Sample ID: SP-I,J,K,L
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-27
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	720		9.9		mg/Kg		07/22/11 13:06	07/25/11 11:09	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/22/11 13:06	07/25/11 11:09	10
p-Terphenyl	0	D	38 - 148				07/22/11 13:06	07/25/11 11:09	10

Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: SP-M,N,O,P
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-32
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1200		20		mg/Kg		07/22/11 13:06	07/25/11 11:34	20
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				07/22/11 13:06	07/25/11 11:34	20
p-Terphenyl	0	D	38 - 148				07/22/11 13:06	07/25/11 11:34	20

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Client Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 6010B - Metals (ICP)

Client Sample ID: SP-I,J,K,L
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-27
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.50		mg/Kg		07/20/11 16:21	07/21/11 15:50	4
Chromium	22		2.0		mg/Kg		07/20/11 16:21	07/21/11 15:50	4
Nickel	28		2.0		mg/Kg		07/20/11 16:21	07/21/11 15:50	4
Lead	7.4		2.0		mg/Kg		07/20/11 16:21	07/21/11 15:50	4
Zinc	35		5.9		mg/Kg		07/20/11 16:21	07/21/11 15:50	4

Client Sample ID: SP-M,N,O,P
Date Collected: 07/18/11 12:00
Date Received: 07/18/11 14:32

Lab Sample ID: 720-36352-32
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.49		mg/Kg		07/20/11 16:21	07/21/11 15:54	4
Chromium	21		1.9		mg/Kg		07/20/11 16:21	07/21/11 15:54	4
Nickel	25		1.9		mg/Kg		07/20/11 16:21	07/21/11 15:54	4
Lead	6.2		1.9		mg/Kg		07/20/11 16:21	07/21/11 15:54	4
Zinc	48		5.8		mg/Kg		07/20/11 16:21	07/21/11 15:54	4

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-95743/1-A
Matrix: Solid
Analysis Batch: 95703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95743

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Acetone	ND		50		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Benzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Bromobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Bromoform	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Bromomethane	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
2-Butanone (MEK)	ND		50		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
n-Butylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Carbon disulfide	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Chlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Chloroethane	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Chloroform	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Chloromethane	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Dibromomethane	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Ethylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
2-Hexanone	ND		50		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Isopropylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Methylene Chloride	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Naphthalene	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
N-Propylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Styrene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95743/1-A

Matrix: Solid

Analysis Batch: 95703

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95743

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Tetrachloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Toluene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Trichloroethene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Vinyl acetate	ND		50		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Vinyl chloride	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
o-Xylene	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Xylenes, Total	ND		10		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 19:34	07/21/11 20:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/21/11 19:34	07/21/11 20:52	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	98		45 - 131	07/21/11 19:34	07/21/11 20:52	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140	07/21/11 19:34	07/21/11 20:52	1
Toluene-d8 (Surr)	97		58 - 140	07/21/11 19:34	07/21/11 20:52	1

Lab Sample ID: LCS 720-95743/2-A

Matrix: Solid

Analysis Batch: 95703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	71 - 144	
Acetone	250	195		ug/Kg		78	30 - 162	
Benzene	50.0	48.0		ug/Kg		96	82 - 124	
Dichlorobromomethane	50.0	47.4		ug/Kg		95	86 - 131	
Bromobenzene	50.0	47.8		ug/Kg		96	88 - 120	
Chlorobromomethane	50.0	49.0		ug/Kg		98	81 - 116	
Bromoform	50.0	43.2		ug/Kg		86	59 - 158	
Bromomethane	50.0	50.4		ug/Kg		101	59 - 132	
2-Butanone (MEK)	250	233		ug/Kg		93	61 - 150	
n-Butylbenzene	50.0	50.2		ug/Kg		100	80 - 142	
sec-Butylbenzene	50.0	48.4		ug/Kg		97	85 - 136	
tert-Butylbenzene	50.0	48.6		ug/Kg		97	71 - 130	
Carbon disulfide	50.0	49.6		ug/Kg		99	60 - 136	
Carbon tetrachloride	50.0	43.4		ug/Kg		87	81 - 138	
Chlorobenzene	50.0	47.0		ug/Kg		94	87 - 113	
Chloroethane	50.0	50.6		ug/Kg		101	69 - 141	
Chloroform	50.0	46.4		ug/Kg		93	77 - 127	
Chloromethane	50.0	50.8		ug/Kg		102	60 - 149	

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95743/2-A

Matrix: Solid

Analysis Batch: 95703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95743

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec. Limits
	Added	Result	Qualifier				
2-Chlorotoluene	50.0	48.6		ug/Kg		97	80 - 138
4-Chlorotoluene	50.0	46.0		ug/Kg		92	79 - 136
Chlorodibromomethane	50.0	45.4		ug/Kg		91	75 - 146
1,2-Dichlorobenzene	50.0	47.6		ug/Kg		95	84 - 130
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	84 - 131
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	85 - 125
1,3-Dichloropropane	50.0	49.4		ug/Kg		99	79 - 140
1,1-Dichloropropene	50.0	49.0		ug/Kg		98	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/Kg		95	68 - 145
Ethylene Dibromide	50.0	50.0		ug/Kg		100	79 - 140
Dibromomethane	50.0	47.6		ug/Kg		95	80 - 139
Dichlorodifluoromethane	50.0	47.0		ug/Kg		94	37 - 158
1,1-Dichloroethane	50.0	46.8		ug/Kg		94	85 - 124
1,2-Dichloroethane	50.0	46.2		ug/Kg		92	72 - 130
1,1-Dichloroethene	50.0	50.2		ug/Kg		100	76 - 122
cis-1,2-Dichloroethene	50.0	55.0		ug/Kg		110	87 - 138
trans-1,2-Dichloroethene	50.0	42.2		ug/Kg		84	67 - 108
1,2-Dichloropropane	50.0	47.0		ug/Kg		94	73 - 127
cis-1,3-Dichloropropene	50.0	46.8		ug/Kg		94	68 - 147
trans-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	84 - 136
Ethylbenzene	50.0	46.6		ug/Kg		93	80 - 137
Hexachlorobutadiene	50.0	50.8		ug/Kg		102	72 - 132
2-Hexanone	250	220		ug/Kg		88	60 - 161
Isopropylbenzene	50.0	48.0		ug/Kg		96	88 - 128
4-Isopropyltoluene	50.0	48.6		ug/Kg		97	85 - 133
Methylene Chloride	50.0	48.2		ug/Kg		96	72 - 134
4-Methyl-2-pentanone (MIBK)	250	229		ug/Kg		92	69 - 160
Naphthalene	50.0	50.4		ug/Kg		101	70 - 147
N-Propylbenzene	50.0	45.6		ug/Kg		91	72 - 125
Styrene	50.0	47.0		ug/Kg		94	89 - 126
1,1,1,2-Tetrachloroethane	50.0	45.0		ug/Kg		90	90 - 130
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/Kg		94	82 - 146
Tetrachloroethene	50.0	50.6		ug/Kg		101	78 - 132
Toluene	50.0	47.0		ug/Kg		94	83 - 128
1,2,3-Trichlorobenzene	50.0	51.8		ug/Kg		104	82 - 135
1,2,4-Trichlorobenzene	50.0	49.2		ug/Kg		98	70 - 131
1,1,1-Trichloroethane	50.0	46.8		ug/Kg		94	80 - 127
1,1,2-Trichloroethane	50.0	48.6		ug/Kg		97	82 - 125
Trichloroethene	50.0	48.4		ug/Kg		97	81 - 133
Trichlorofluoromethane	50.0	49.8		ug/Kg		100	71 - 139
1,2,3-Trichloropropane	50.0	46.8		ug/Kg		94	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.6		ug/Kg		97	70 - 130
1,2,4-Trimethylbenzene	50.0	47.2		ug/Kg		94	84 - 130
1,3,5-Trimethylbenzene	50.0	49.2		ug/Kg		98	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		100	38 - 176
Vinyl chloride	50.0	51.2		ug/Kg		102	63 - 140
m-Xylene & p-Xylene	100	90.4		ug/Kg		90	79 - 146
o-Xylene	50.0	47.0		ug/Kg		94	84 - 140
2,2-Dichloropropane	50.0	43.4		ug/Kg		87	73 - 162

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95743/2-A
Matrix: Solid
Analysis Batch: 95703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95743

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCS 720-95743/4-A
Matrix: Solid
Analysis Batch: 95703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95743

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO) -C5-C12	1000	880		ug/Kg		88	61 - 128	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCSD 720-95743/3-A
Matrix: Solid
Analysis Batch: 95703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95743

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec.		RPD	
		Result	Qualifier				Limits	RPD	Limit	
Methyl tert-butyl ether	50.0	50.8		ug/Kg		102	71 - 144	4	20	
Acetone	250	215		ug/Kg		86	30 - 162	10	30	
Benzene	50.0	47.4		ug/Kg		95	82 - 124	1	20	
Dichlorobromomethane	50.0	47.6		ug/Kg		95	86 - 131	0	20	
Bromobenzene	50.0	49.0		ug/Kg		98	88 - 120	2	20	
Chlorobromomethane	50.0	50.4		ug/Kg		101	81 - 116	3	20	
Bromoform	50.0	47.2		ug/Kg		94	59 - 158	9	20	
Bromomethane	50.0	49.0		ug/Kg		98	59 - 132	3	20	
2-Butanone (MEK)	250	253		ug/Kg		101	61 - 150	8	20	
n-Butylbenzene	50.0	48.6		ug/Kg		97	80 - 142	3	20	
sec-Butylbenzene	50.0	47.4		ug/Kg		95	85 - 136	2	20	
tert-Butylbenzene	50.0	48.2		ug/Kg		96	71 - 130	1	20	
Carbon disulfide	50.0	48.4		ug/Kg		97	60 - 136	2	20	
Carbon tetrachloride	50.0	44.6		ug/Kg		89	81 - 138	3	20	
Chlorobenzene	50.0	46.6		ug/Kg		93	87 - 113	1	20	
Chloroethane	50.0	48.8		ug/Kg		98	69 - 141	4	20	
Chloroform	50.0	46.0		ug/Kg		92	77 - 127	1	20	
Chloromethane	50.0	47.6		ug/Kg		95	60 - 149	7	20	
2-Chlorotoluene	50.0	47.0		ug/Kg		94	80 - 138	3	20	
4-Chlorotoluene	50.0	45.2		ug/Kg		90	79 - 136	2	20	
Chlorodibromomethane	50.0	49.6		ug/Kg		99	75 - 146	9	20	
1,2-Dichlorobenzene	50.0	47.8		ug/Kg		96	84 - 130	0	20	
1,3-Dichlorobenzene	50.0	47.6		ug/Kg		95	84 - 131	0	20	
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	85 - 125	0	20	
1,3-Dichloropropane	50.0	50.6		ug/Kg		101	79 - 140	2	20	
1,1-Dichloropropene	50.0	48.0		ug/Kg		96	70 - 130	2	20	
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/Kg		101	68 - 145	6	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95743/3-A

Matrix: Solid

Analysis Batch: 95703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95743

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Added	Result	Qualifier						
Ethylene Dibromide	50.0	52.2		ug/Kg		104	79 - 140	4	20
Dibromomethane	50.0	48.4		ug/Kg		97	80 - 139	2	20
Dichlorodifluoromethane	50.0	45.8		ug/Kg		92	37 - 158	3	20
1,1-Dichloroethane	50.0	45.6		ug/Kg		91	85 - 124	3	20
1,2-Dichloroethane	50.0	45.4		ug/Kg		91	72 - 130	2	20
1,1-Dichloroethene	50.0	49.4		ug/Kg		99	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	87 - 138	5	20
trans-1,2-Dichloroethene	50.0	42.2		ug/Kg		84	67 - 108	0	20
1,2-Dichloropropane	50.0	46.6		ug/Kg		93	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	47.0		ug/Kg		94	68 - 147	0	20
trans-1,3-Dichloropropene	50.0	48.0		ug/Kg		96	84 - 136	3	20
Ethylbenzene	50.0	45.8		ug/Kg		92	80 - 137	2	20
Hexachlorobutadiene	50.0	50.0		ug/Kg		100	72 - 132	2	20
2-Hexanone	250	231		ug/Kg		92	60 - 161	5	20
Isopropylbenzene	50.0	47.4		ug/Kg		95	88 - 128	1	20
4-Isopropyltoluene	50.0	48.0		ug/Kg		96	85 - 133	1	20
Methylene Chloride	50.0	48.0		ug/Kg		96	72 - 134	0	20
4-Methyl-2-pentanone (MIBK)	250	238		ug/Kg		95	69 - 160	4	20
Naphthalene	50.0	51.2		ug/Kg		102	70 - 147	2	20
N-Propylbenzene	50.0	44.2		ug/Kg		88	72 - 125	3	20
Styrene	50.0	46.8		ug/Kg		94	89 - 126	0	20
1,1,1,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	90 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/Kg		97	82 - 146	3	20
Tetrachloroethene	50.0	52.0		ug/Kg		104	78 - 132	3	20
Toluene	50.0	45.8		ug/Kg		92	83 - 128	3	20
1,2,3-Trichlorobenzene	50.0	52.4		ug/Kg		105	82 - 135	1	20
1,2,4-Trichlorobenzene	50.0	49.4		ug/Kg		99	70 - 131	0	20
1,1,1-Trichloroethane	50.0	45.8		ug/Kg		92	80 - 127	2	20
1,1,2-Trichloroethane	50.0	50.0		ug/Kg		100	82 - 125	3	20
Trichloroethene	50.0	49.2		ug/Kg		98	81 - 133	2	20
Trichlorofluoromethane	50.0	50.0		ug/Kg		100	71 - 139	0	20
1,2,3-Trichloropropane	50.0	49.0		ug/Kg		98	76 - 146	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.6		ug/Kg		99	70 - 130	2	20
1,2,4-Trimethylbenzene	50.0	46.6		ug/Kg		93	84 - 130	1	20
1,3,5-Trimethylbenzene	50.0	48.2		ug/Kg		96	82 - 131	2	20
Vinyl acetate	50.0	ND		ug/Kg		100	38 - 176	0	20
Vinyl chloride	50.0	48.6		ug/Kg		97	63 - 140	5	20
m-Xylene & p-Xylene	100	88.8		ug/Kg		89	79 - 146	2	20
o-Xylene	50.0	45.8		ug/Kg		92	84 - 140	3	20
2,2-Dichloropropane	50.0	44.4		ug/Kg		89	73 - 162	2	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	99		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95743/5-A

Matrix: Solid

Analysis Batch: 95703

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95743

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	
							Limits	RPD	Limit	
Gasoline Range Organics (GRO) -C5-C12	1000	833		ug/Kg		83	61 - 128	5	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Lab Sample ID: MB 720-95759/1-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95759

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Acetone	ND		50		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Benzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Bromobenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Chlorobromomethane	ND		20		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Bromoform	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Bromomethane	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
2-Butanone (MEK)	ND		50		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
n-Butylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Carbon disulfide	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Chlorobenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Chloroethane	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Chloroform	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Chloromethane	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Dibromomethane	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95759/1-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95759

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Ethylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
2-Hexanone	ND		50		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Isopropylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Methylene Chloride	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Naphthalene	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
N-Propylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Styrene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Tetrachloroethene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Toluene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Trichloroethene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Vinyl acetate	ND		50		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Vinyl chloride	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
o-Xylene	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Xylenes, Total	ND		10		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/21/11 17:35	07/21/11 18:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/21/11 17:35	07/21/11 18:56	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	97		45 - 131	07/21/11 17:35	07/21/11 18:56	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140	07/21/11 17:35	07/21/11 18:56	1
Toluene-d8 (Surr)	107		58 - 140	07/21/11 17:35	07/21/11 18:56	1

Lab Sample ID: LCS 720-95759/2-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	52.2		ug/Kg		104	71 - 144
Acetone	250	200		ug/Kg		80	30 - 162
Benzene	50.0	54.8		ug/Kg		110	82 - 124
Dichlorobromomethane	50.0	55.4		ug/Kg		111	86 - 131
Bromobenzene	50.0	51.0		ug/Kg		102	88 - 120

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95759/2-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				
Chlorobromomethane	50.0	54.6		ug/Kg		109	81 - 116
Bromoform	50.0	49.4		ug/Kg		99	59 - 158
Bromomethane	50.0	57.8		ug/Kg		116	59 - 132
2-Butanone (MEK)	250	216		ug/Kg		86	61 - 150
n-Butylbenzene	50.0	56.2		ug/Kg		112	80 - 142
sec-Butylbenzene	50.0	54.6		ug/Kg		109	85 - 136
tert-Butylbenzene	50.0	54.2		ug/Kg		108	71 - 130
Carbon disulfide	50.0	51.2		ug/Kg		102	60 - 136
Carbon tetrachloride	50.0	56.0		ug/Kg		112	81 - 138
Chlorobenzene	50.0	51.2		ug/Kg		102	87 - 113
Chloroethane	50.0	51.6		ug/Kg		103	69 - 141
Chloroform	50.0	53.4		ug/Kg		107	77 - 127
Chloromethane	50.0	46.2		ug/Kg		92	60 - 149
2-Chlorotoluene	50.0	54.2		ug/Kg		108	80 - 138
4-Chlorotoluene	50.0	52.4		ug/Kg		105	79 - 136
Chlorodibromomethane	50.0	54.0		ug/Kg		108	75 - 146
1,2-Dichlorobenzene	50.0	48.0		ug/Kg		96	84 - 130
1,3-Dichlorobenzene	50.0	50.6		ug/Kg		101	84 - 131
1,4-Dichlorobenzene	50.0	49.6		ug/Kg		99	85 - 125
1,3-Dichloropropane	50.0	52.6		ug/Kg		105	79 - 140
1,1-Dichloropropene	50.0	57.4		ug/Kg		115	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.0		ug/Kg		92	68 - 145
Ethylene Dibromide	50.0	53.0		ug/Kg		106	79 - 140
Dibromomethane	50.0	52.2		ug/Kg		104	80 - 139
Dichlorodifluoromethane	50.0	46.4		ug/Kg		93	37 - 158
1,1-Dichloroethane	50.0	53.6		ug/Kg		107	85 - 124
1,2-Dichloroethane	50.0	51.2		ug/Kg		102	72 - 130
1,1-Dichloroethene	50.0	53.8		ug/Kg		108	76 - 122
cis-1,2-Dichloroethene	50.0	62.0		ug/Kg		124	87 - 138
trans-1,2-Dichloroethene	50.0	48.2		ug/Kg		96	67 - 108
1,2-Dichloropropane	50.0	53.2		ug/Kg		106	73 - 127
cis-1,3-Dichloropropene	50.0	55.4		ug/Kg		111	68 - 147
trans-1,3-Dichloropropene	50.0	55.4		ug/Kg		111	84 - 136
Ethylbenzene	50.0	53.4		ug/Kg		107	80 - 137
Hexachlorobutadiene	50.0	52.6		ug/Kg		105	72 - 132
2-Hexanone	250	232		ug/Kg		93	60 - 161
Isopropylbenzene	50.0	55.4		ug/Kg		111	88 - 128
4-Isopropyltoluene	50.0	55.4		ug/Kg		111	85 - 133
Methylene Chloride	50.0	47.0		ug/Kg		94	72 - 134
4-Methyl-2-pentanone (MIBK)	250	233		ug/Kg		93	69 - 160
Naphthalene	50.0	42.2		ug/Kg		84	70 - 147
N-Propylbenzene	50.0	52.4		ug/Kg		105	72 - 125
Styrene	50.0	54.4		ug/Kg		109	89 - 126
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	90 - 130
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/Kg		92	82 - 146
Tetrachloroethene	50.0	57.6		ug/Kg		115	78 - 132
Toluene	50.0	52.2		ug/Kg		104	83 - 128
1,2,3-Trichlorobenzene	50.0	47.0		ug/Kg		94	82 - 135
1,2,4-Trichlorobenzene	50.0	48.4		ug/Kg		97	70 - 131
1,1,1-Trichloroethane	50.0	55.8		ug/Kg		112	80 - 127

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95759/2-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
1,1,2-Trichloroethane	50.0	51.2		ug/Kg		102	82 - 125	
Trichloroethene	50.0	55.6		ug/Kg		111	81 - 133	
Trichlorofluoromethane	50.0	58.6		ug/Kg		117	71 - 139	
1,2,3-Trichloropropane	50.0	45.8		ug/Kg		92	76 - 146	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.0		ug/Kg		108	70 - 130	
1,2,4-Trimethylbenzene	50.0	53.8		ug/Kg		108	84 - 130	
1,3,5-Trimethylbenzene	50.0	55.6		ug/Kg		111	82 - 131	
Vinyl acetate	50.0	50.0		ug/Kg		100	38 - 176	
Vinyl chloride	50.0	52.2		ug/Kg		104	63 - 140	
m-Xylene & p-Xylene	100	106		ug/Kg		106	79 - 146	
o-Xylene	50.0	53.6		ug/Kg		107	84 - 140	
2,2-Dichloropropane	50.0	59.6		ug/Kg		119	73 - 162	

Surrogate	LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	113		58 - 140

Lab Sample ID: LCS 720-95759/4-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
Gasoline Range Organics (GRO) -C5-C12	1000	939		ug/Kg		94	61 - 128	

Surrogate	LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	107		60 - 140
Toluene-d8 (Surr)	114		58 - 140

Lab Sample ID: LCSD 720-95759/3-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	
							Limits		RPD	Limit
Methyl tert-butyl ether	50.0	54.6		ug/Kg		109	71 - 144		4	20
Acetone	250	206		ug/Kg		82	30 - 162		3	30
Benzene	50.0	56.0		ug/Kg		112	82 - 124		2	20
Dichlorobromomethane	50.0	56.4		ug/Kg		113	86 - 131		2	20
Bromobenzene	50.0	54.0		ug/Kg		108	88 - 120		6	20
Chlorobromomethane	50.0	54.0		ug/Kg		108	81 - 116		1	20
Bromoform	50.0	52.2		ug/Kg		104	59 - 158		6	20
Bromomethane	50.0	57.4		ug/Kg		115	59 - 132		1	20
2-Butanone (MEK)	250	222		ug/Kg		89	61 - 150		3	20
n-Butylbenzene	50.0	59.6		ug/Kg		119	80 - 142		6	20
sec-Butylbenzene	50.0	57.6		ug/Kg		115	85 - 136		5	20
tert-Butylbenzene	50.0	57.0		ug/Kg		114	71 - 130		5	20
Carbon disulfide	50.0	52.2		ug/Kg		104	60 - 136		2	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95759/3-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Carbon tetrachloride	50.0	57.0		ug/Kg		114	81 - 138	2	20
Chlorobenzene	50.0	53.4		ug/Kg		107	87 - 113	4	20
Chloroethane	50.0	53.4		ug/Kg		107	69 - 141	3	20
Chloroform	50.0	54.6		ug/Kg		109	77 - 127	2	20
Chloromethane	50.0	47.4		ug/Kg		95	60 - 149	3	20
2-Chlorotoluene	50.0	57.0		ug/Kg		114	80 - 138	5	20
4-Chlorotoluene	50.0	55.4		ug/Kg		111	79 - 136	6	20
Chlorodibromomethane	50.0	56.2		ug/Kg		112	75 - 146	4	20
1,2-Dichlorobenzene	50.0	51.2		ug/Kg		102	84 - 130	6	20
1,3-Dichlorobenzene	50.0	53.8		ug/Kg		108	84 - 131	6	20
1,4-Dichlorobenzene	50.0	53.0		ug/Kg		106	85 - 125	7	20
1,3-Dichloropropane	50.0	54.8		ug/Kg		110	79 - 140	4	20
1,1-Dichloropropene	50.0	58.6		ug/Kg		117	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/Kg		101	68 - 145	9	20
Ethylene Dibromide	50.0	55.2		ug/Kg		110	79 - 140	4	20
Dibromomethane	50.0	54.2		ug/Kg		108	80 - 139	4	20
Dichlorodifluoromethane	50.0	47.2		ug/Kg		94	37 - 158	2	20
1,1-Dichloroethane	50.0	55.2		ug/Kg		110	85 - 124	3	20
1,2-Dichloroethane	50.0	52.8		ug/Kg		106	72 - 130	3	20
1,1-Dichloroethene	50.0	54.6		ug/Kg		109	76 - 122	1	20
cis-1,2-Dichloroethene	50.0	63.4		ug/Kg		127	87 - 138	2	20
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	67 - 108	1	20
1,2-Dichloropropane	50.0	54.6		ug/Kg		109	73 - 127	3	20
cis-1,3-Dichloropropene	50.0	56.8		ug/Kg		114	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	57.6		ug/Kg		115	84 - 136	4	20
Ethylbenzene	50.0	54.8		ug/Kg		110	80 - 137	3	20
Hexachlorobutadiene	50.0	56.4		ug/Kg		113	72 - 132	7	20
2-Hexanone	250	243		ug/Kg		97	60 - 161	5	20
Isopropylbenzene	50.0	57.4		ug/Kg		115	88 - 128	4	20
4-Isopropyltoluene	50.0	58.4		ug/Kg		117	85 - 133	5	20
Methylene Chloride	50.0	48.0		ug/Kg		96	72 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	248		ug/Kg		99	69 - 160	6	20
Naphthalene	50.0	46.2		ug/Kg		92	70 - 147	9	20
N-Propylbenzene	50.0	55.2		ug/Kg		110	72 - 125	5	20
Styrene	50.0	56.8		ug/Kg		114	89 - 126	4	20
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/Kg		108	90 - 130	5	20
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	82 - 146	7	20
Tetrachloroethene	50.0	58.6		ug/Kg		117	78 - 132	2	20
Toluene	50.0	53.8		ug/Kg		108	83 - 128	3	20
1,2,3-Trichlorobenzene	50.0	51.0		ug/Kg		102	82 - 135	8	20
1,2,4-Trichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131	6	20
1,1,1-Trichloroethane	50.0	56.8		ug/Kg		114	80 - 127	2	20
1,1,2-Trichloroethane	50.0	52.8		ug/Kg		106	82 - 125	3	20
Trichloroethene	50.0	57.0		ug/Kg		114	81 - 133	2	20
Trichlorofluoromethane	50.0	59.6		ug/Kg		119	71 - 139	2	20
1,2,3-Trichloropropane	50.0	48.4		ug/Kg		97	76 - 146	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6		ug/Kg		109	70 - 130	1	20
1,2,4-Trimethylbenzene	50.0	56.4		ug/Kg		113	84 - 130	5	20
1,3,5-Trimethylbenzene	50.0	58.2		ug/Kg		116	82 - 131	5	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95759/3-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Vinyl acetate	50.0	52.6		ug/Kg		105	38 - 176	5		20
Vinyl chloride	50.0	53.0		ug/Kg		106	63 - 140	2		20
m-Xylene & p-Xylene	100	109		ug/Kg		109	79 - 146	4		20
o-Xylene	50.0	55.4		ug/Kg		111	84 - 140	3		20
2,2-Dichloropropane	50.0	60.6		ug/Kg		121	73 - 162	2		20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	105		60 - 140
Toluene-d8 (Surr)	114		58 - 140

Lab Sample ID: LCSD 720-95759/5-A

Matrix: Solid

Analysis Batch: 95710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	916		ug/Kg		92	61 - 128	2		20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	106		60 - 140
Toluene-d8 (Surr)	111		58 - 140

Lab Sample ID: MB 720-95878/1-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95878

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Acetone	ND		50		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Benzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Bromobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Chlorobromomethane	ND		20		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Bromoform	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Bromomethane	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
2-Butanone (MEK)	ND		50		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
n-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Carbon disulfide	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Chlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Chloroethane	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Chloroform	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Chloromethane	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95878/1-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95878

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlorodibromomethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Dibromomethane	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Ethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
2-Hexanone	ND		50		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Isopropylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Methylene Chloride	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Naphthalene	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
N-Propylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Styrene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Tetrachloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Toluene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Trichloroethene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Vinyl acetate	ND		50		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Vinyl chloride	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
o-Xylene	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Xylenes, Total	ND		10		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		07/22/11 07:50	07/22/11 09:56	1
-C5-C12									

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95878/1-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95878

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	100		45 - 131	07/22/11 07:50	07/22/11 09:56	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140	07/22/11 07:50	07/22/11 09:56	1
Toluene-d8 (Surr)	108		58 - 140	07/22/11 07:50	07/22/11 09:56	1

Lab Sample ID: LCS 720-95878/2-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	Limits
Acetone	250	153		ug/Kg		61	30 - 162	
Benzene	50.0	52.6		ug/Kg		105	82 - 124	
Dichlorobromomethane	50.0	54.4		ug/Kg		109	86 - 131	
Bromobenzene	50.0	50.6		ug/Kg		101	88 - 120	
Chlorobromomethane	50.0	54.8		ug/Kg		110	81 - 116	
Bromoform	50.0	48.6		ug/Kg		97	59 - 158	
Bromomethane	50.0	54.0		ug/Kg		108	59 - 132	
2-Butanone (MEK)	250	188		ug/Kg		75	61 - 150	
n-Butylbenzene	50.0	54.8		ug/Kg		110	80 - 142	
sec-Butylbenzene	50.0	53.0		ug/Kg		106	85 - 136	
tert-Butylbenzene	50.0	53.0		ug/Kg		106	71 - 130	
Carbon disulfide	50.0	48.4		ug/Kg		97	60 - 136	
Carbon tetrachloride	50.0	53.4		ug/Kg		107	81 - 138	
Chlorobenzene	50.0	50.2		ug/Kg		100	87 - 113	
Chloroethane	50.0	50.4		ug/Kg		101	69 - 141	
Chloroform	50.0	51.6		ug/Kg		103	77 - 127	
Chloromethane	50.0	43.6		ug/Kg		87	60 - 149	
2-Chlorotoluene	50.0	53.6		ug/Kg		107	80 - 138	
4-Chlorotoluene	50.0	52.2		ug/Kg		104	79 - 136	
Chlorodibromomethane	50.0	53.6		ug/Kg		107	75 - 146	
1,2-Dichlorobenzene	50.0	48.0		ug/Kg		96	84 - 130	
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	84 - 131	
1,4-Dichlorobenzene	50.0	49.4		ug/Kg		99	85 - 125	
1,3-Dichloropropane	50.0	52.0		ug/Kg		104	79 - 140	
1,1-Dichloropropene	50.0	54.6		ug/Kg		109	70 - 130	
1,2-Dibromo-3-Chloropropane	50.0	45.4		ug/Kg		91	68 - 145	
Ethylene Dibromide	50.0	51.4		ug/Kg		103	79 - 140	
Dibromomethane	50.0	51.0		ug/Kg		102	80 - 139	
Dichlorodifluoromethane	50.0	42.4		ug/Kg		85	37 - 158	
1,1-Dichloroethane	50.0	51.8		ug/Kg		104	85 - 124	
1,2-Dichloroethane	50.0	49.8		ug/Kg		100	72 - 130	
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	76 - 122	
cis-1,2-Dichloroethene	50.0	60.2		ug/Kg		120	87 - 138	
trans-1,2-Dichloroethene	50.0	45.8		ug/Kg		92	67 - 108	
1,2-Dichloropropane	50.0	52.2		ug/Kg		104	73 - 127	
cis-1,3-Dichloropropene	50.0	53.8		ug/Kg		108	68 - 147	
trans-1,3-Dichloropropene	50.0	54.2		ug/Kg		108	84 - 136	
Ethylbenzene	50.0	52.0		ug/Kg		104	80 - 137	
Hexachlorobutadiene	50.0	50.4		ug/Kg		101	72 - 132	

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95878/2-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				
2-Hexanone	250	211		ug/Kg		84	60 - 161
Isopropylbenzene	50.0	53.8		ug/Kg		108	88 - 128
4-Isopropyltoluene	50.0	54.2		ug/Kg		108	85 - 133
Methylene Chloride	50.0	45.8		ug/Kg		92	72 - 134
4-Methyl-2-pentanone (MIBK)	250	227		ug/Kg		91	69 - 160
Naphthalene	50.0	42.2		ug/Kg		84	70 - 147
N-Propylbenzene	50.0	51.2		ug/Kg		102	72 - 125
Styrene	50.0	53.8		ug/Kg		108	89 - 126
1,1,1,2-Tetrachloroethane	50.0	51.4		ug/Kg		103	90 - 130
1,1,2,2-Tetrachloroethane	50.0	45.8		ug/Kg		92	82 - 146
Tetrachloroethene	50.0	55.2		ug/Kg		110	78 - 132
Toluene	50.0	51.4		ug/Kg		103	83 - 128
1,2,3-Trichlorobenzene	50.0	47.0		ug/Kg		94	82 - 135
1,2,4-Trichlorobenzene	50.0	48.4		ug/Kg		97	70 - 131
1,1,1-Trichloroethane	50.0	53.4		ug/Kg		107	80 - 127
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	82 - 125
Trichloroethene	50.0	53.4		ug/Kg		107	81 - 133
Trichlorofluoromethane	50.0	55.8		ug/Kg		112	71 - 139
1,2,3-Trichloropropane	50.0	45.4		ug/Kg		91	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6		ug/Kg		101	70 - 130
1,2,4-Trimethylbenzene	50.0	53.4		ug/Kg		107	84 - 130
1,3,5-Trimethylbenzene	50.0	54.8		ug/Kg		110	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		98	38 - 176
Vinyl chloride	50.0	49.6		ug/Kg		99	63 - 140
m-Xylene & p-Xylene	100	104		ug/Kg		104	79 - 146
o-Xylene	50.0	53.0		ug/Kg		106	84 - 140
2,2-Dichloropropane	50.0	56.6		ug/Kg		113	73 - 162

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	109		58 - 140

Lab Sample ID: LCS 720-95878/4-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.
	Added	Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	1000	882		ug/Kg		88	61 - 128

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	109		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95878/3-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD Limit
							Limits	RPD	
Methyl tert-butyl ether	50.0	50.8		ug/Kg		102	71 - 144	2	20
Acetone	250	168		ug/Kg		67	30 - 162	9	30
Benzene	50.0	53.4		ug/Kg		107	82 - 124	2	20
Dichlorobromomethane	50.0	54.0		ug/Kg		108	86 - 131	1	20
Bromobenzene	50.0	51.6		ug/Kg		103	88 - 120	2	20
Chlorobromomethane	50.0	53.6		ug/Kg		107	81 - 116	2	20
Bromoform	50.0	49.0		ug/Kg		98	59 - 158	1	20
Bromomethane	50.0	51.4		ug/Kg		103	59 - 132	5	20
2-Butanone (MEK)	250	191		ug/Kg		76	61 - 150	2	20
n-Butylbenzene	50.0	55.6		ug/Kg		111	80 - 142	1	20
sec-Butylbenzene	50.0	54.2		ug/Kg		108	85 - 136	2	20
tert-Butylbenzene	50.0	54.2		ug/Kg		108	71 - 130	2	20
Carbon disulfide	50.0	49.6		ug/Kg		99	60 - 136	2	20
Carbon tetrachloride	50.0	54.4		ug/Kg		109	81 - 138	2	20
Chlorobenzene	50.0	50.4		ug/Kg		101	87 - 113	0	20
Chloroethane	50.0	50.2		ug/Kg		100	69 - 141	0	20
Chloroform	50.0	52.0		ug/Kg		104	77 - 127	1	20
Chloromethane	50.0	42.4		ug/Kg		85	60 - 149	3	20
2-Chlorotoluene	50.0	54.4		ug/Kg		109	80 - 138	1	20
4-Chlorotoluene	50.0	52.6		ug/Kg		105	79 - 136	1	20
Chlorodibromomethane	50.0	53.2		ug/Kg		106	75 - 146	1	20
1,2-Dichlorobenzene	50.0	48.2		ug/Kg		96	84 - 130	0	20
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	84 - 131	1	20
1,4-Dichlorobenzene	50.0	49.6		ug/Kg		99	85 - 125	0	20
1,3-Dichloropropane	50.0	52.0		ug/Kg		104	79 - 140	0	20
1,1-Dichloropropene	50.0	55.2		ug/Kg		110	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	45.4		ug/Kg		91	68 - 145	0	20
Ethylene Dibromide	50.0	51.8		ug/Kg		104	79 - 140	1	20
Dibromomethane	50.0	51.6		ug/Kg		103	80 - 139	1	20
Dichlorodifluoromethane	50.0	42.6		ug/Kg		85	37 - 158	0	20
1,1-Dichloroethane	50.0	52.6		ug/Kg		105	85 - 124	2	20
1,2-Dichloroethane	50.0	50.2		ug/Kg		100	72 - 130	1	20
1,1-Dichloroethene	50.0	52.0		ug/Kg		104	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	60.4		ug/Kg		121	87 - 138	0	20
trans-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	67 - 108	2	20
1,2-Dichloropropane	50.0	51.6		ug/Kg		103	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	53.8		ug/Kg		108	68 - 147	0	20
trans-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	84 - 136	0	20
Ethylbenzene	50.0	51.8		ug/Kg		104	80 - 137	0	20
Hexachlorobutadiene	50.0	51.2		ug/Kg		102	72 - 132	2	20
2-Hexanone	250	212		ug/Kg		85	60 - 161	1	20
Isopropylbenzene	50.0	54.2		ug/Kg		108	88 - 128	1	20
4-Isopropyltoluene	50.0	54.8		ug/Kg		110	85 - 133	1	20
Methylene Chloride	50.0	45.8		ug/Kg		92	72 - 134	0	20
4-Methyl-2-pentanone (MIBK)	250	228		ug/Kg		91	69 - 160	0	20
Naphthalene	50.0	42.6		ug/Kg		85	70 - 147	1	20
N-Propylbenzene	50.0	52.0		ug/Kg		104	72 - 125	2	20
Styrene	50.0	53.6		ug/Kg		107	89 - 126	0	20
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	90 - 130	0	20

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95878/3-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	RPD Limit
							Limits	RPD		
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/Kg		94	82 - 146	3	20	
Tetrachloroethene	50.0	55.4		ug/Kg		111	78 - 132	0	20	
Toluene	50.0	51.4		ug/Kg		103	83 - 128	0	20	
1,2,3-Trichlorobenzene	50.0	46.8		ug/Kg		94	82 - 135	0	20	
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	70 - 131	1	20	
1,1,1-Trichloroethane	50.0	54.0		ug/Kg		108	80 - 127	1	20	
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	82 - 125	0	20	
Trichloroethene	50.0	54.2		ug/Kg		108	81 - 133	1	20	
Trichlorofluoromethane	50.0	57.0		ug/Kg		114	71 - 139	2	20	
1,2,3-Trichloropropane	50.0	45.6		ug/Kg		91	76 - 146	0	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.0		ug/Kg		102	70 - 130	1	20	
1,2,4-Trimethylbenzene	50.0	53.4		ug/Kg		107	84 - 130	0	20	
1,3,5-Trimethylbenzene	50.0	55.0		ug/Kg		110	82 - 131	0	20	
Vinyl acetate	50.0	50.4		ug/Kg		101	38 - 176	2	20	
Vinyl chloride	50.0	49.8		ug/Kg		100	63 - 140	0	20	
m-Xylene & p-Xylene	100	103		ug/Kg		103	79 - 146	1	20	
o-Xylene	50.0	52.8		ug/Kg		106	84 - 140	0	20	
2,2-Dichloropropane	50.0	57.0		ug/Kg		114	73 - 162	1	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	110		58 - 140

Lab Sample ID: LCSD 720-95878/5-A

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec.		RPD	RPD Limit
							Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	906		ug/Kg		91	61 - 128	3	20	

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	110		58 - 140

Lab Sample ID: 720-36352-7 MS

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: 1 ESW-B

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	% Rec	% Rec.	
				Result	Qualifier				Limits	RPD
Methyl tert-butyl ether	ND		49.3	47.1		ug/Kg		96	69 - 130	
Acetone	ND		247	218		ug/Kg		88	37 - 150	
Benzene	ND		49.3	51.3		ug/Kg		104	70 - 130	
Dichlorobromomethane	ND		49.3	51.5		ug/Kg		104	64 - 135	
Bromobenzene	ND		49.3	47.1		ug/Kg		96	70 - 130	
Chlorobromomethane	ND		49.3	46.5		ug/Kg		94	65 - 130	
Bromoform	ND		49.3	44.4		ug/Kg		90	58 - 132	

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36352-7 MS

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: 1 ESW-B

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Bromomethane	ND		49.3	48.1		ug/Kg		98	56 - 130
2-Butanone (MEK)	ND		247	210		ug/Kg		85	41 - 150
n-Butylbenzene	ND		49.3	51.5		ug/Kg		104	60 - 145
sec-Butylbenzene	ND		49.3	51.3		ug/Kg		104	64 - 137
tert-Butylbenzene	ND		49.3	50.5		ug/Kg		102	63 - 134
Carbon disulfide	ND		49.3	47.7		ug/Kg		97	10 - 150
Carbon tetrachloride	ND		49.3	50.5		ug/Kg		102	54 - 130
Chlorobenzene	ND		49.3	47.5		ug/Kg		96	70 - 130
Chloroethane	ND		49.3	50.3		ug/Kg		102	61 - 130
Chloroform	ND		49.3	49.7		ug/Kg		101	67 - 130
Chloromethane	ND		49.3	43.8		ug/Kg		89	50 - 131
2-Chlorotoluene	ND		49.3	51.1		ug/Kg		104	70 - 130
4-Chlorotoluene	ND		49.3	48.9		ug/Kg		99	70 - 130
Chlorodibromomethane	ND		49.3	49.3		ug/Kg		100	60 - 141
1,2-Dichlorobenzene	ND		49.3	44.6		ug/Kg		90	70 - 130
1,3-Dichlorobenzene	ND		49.3	46.5		ug/Kg		94	70 - 130
1,4-Dichlorobenzene	ND		49.3	45.2		ug/Kg		92	70 - 130
1,3-Dichloropropane	ND		49.3	48.7		ug/Kg		99	70 - 130
1,1-Dichloropropene	ND		49.3	52.7		ug/Kg		107	67 - 130
1,2-Dibromo-3-Chloropropane	ND		49.3	40.8		ug/Kg		83	57 - 130
Ethylene Dibromide	ND		49.3	48.1		ug/Kg		98	66 - 135
Dibromomethane	ND		49.3	47.7		ug/Kg		97	65 - 131
Dichlorodifluoromethane	ND		49.3	41.6		ug/Kg		84	38 - 130
1,1-Dichloroethane	ND		49.3	50.5		ug/Kg		102	67 - 130
1,2-Dichloroethane	ND		49.3	46.4		ug/Kg		94	70 - 130
1,1-Dichloroethene	ND		49.3	49.3		ug/Kg		100	64 - 130
cis-1,2-Dichloroethene	ND		49.3	58.0		ug/Kg		118	68 - 131
trans-1,2-Dichloroethene	ND		49.3	44.4		ug/Kg		90	70 - 130
1,2-Dichloropropane	ND		49.3	50.3		ug/Kg		102	65 - 133
cis-1,3-Dichloropropene	ND		49.3	50.1		ug/Kg		102	46 - 139
trans-1,3-Dichloropropene	ND		49.3	49.5		ug/Kg		100	55 - 131
Ethylbenzene	ND		49.3	49.9		ug/Kg		101	65 - 130
Hexachlorobutadiene	ND		49.3	44.6		ug/Kg		90	58 - 132
2-Hexanone	ND		247	226		ug/Kg		92	44 - 150
Isopropylbenzene	ND		49.3	51.5		ug/Kg		104	65 - 130
4-Isopropyltoluene	ND		49.3	50.9		ug/Kg		103	69 - 134
Methylene Chloride	ND		49.3	44.2		ug/Kg		90	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		247	220		ug/Kg		89	51 - 140
Naphthalene	ND		49.3	36.5		ug/Kg		74	45 - 146
N-Propylbenzene	ND		49.3	49.5		ug/Kg		100	70 - 130
Styrene	ND		49.3	49.9		ug/Kg		101	58 - 135
1,1,1,2-Tetrachloroethane	ND		49.3	47.5		ug/Kg		96	64 - 133
1,1,2,2-Tetrachloroethane	ND		49.3	31.8	F	ug/Kg		64	70 - 131
Tetrachloroethene	ND		49.3	52.7		ug/Kg		107	67 - 130
Toluene	ND		49.3	48.7		ug/Kg		99	70 - 130
1,2,3-Trichlorobenzene	ND		49.3	40.6		ug/Kg		82	58 - 138
1,2,4-Trichlorobenzene	ND		49.3	41.4		ug/Kg		84	49 - 144
1,1,1-Trichloroethane	ND		49.3	50.9		ug/Kg		103	57 - 133
1,1,2-Trichloroethane	ND		49.3	46.9		ug/Kg		95	68 - 132
Trichloroethene	ND		49.3	62.9		ug/Kg		128	66 - 130

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36352-7 MS

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: 1 ESW-B

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Sample	Sample	Spike	MS		Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Trichlorofluoromethane	ND		49.3	53.5		ug/Kg		108	61 - 130	
1,2,3-Trichloropropane	ND		49.3	41.2		ug/Kg		84	62 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.3	47.5		ug/Kg		96	52 - 130	
1,2,4-Trimethylbenzene	ND		49.3	49.7		ug/Kg		101	64 - 140	
1,3,5-Trimethylbenzene	ND		49.3	51.3		ug/Kg		104	67 - 134	
Vinyl acetate	ND		49.3	ND	F	ug/Kg		18	52 - 150	
Vinyl chloride	ND		49.3	50.9		ug/Kg		103	62 - 130	
m-Xylene & p-Xylene	ND		98.6	98.4		ug/Kg		100	70 - 130	
o-Xylene	ND		49.3	50.1		ug/Kg		102	68 - 130	
2,2-Dichloropropane	ND		49.3	53.1		ug/Kg		108	63 - 130	
MS MS										
Surrogate	% Recovery		Qualifier	Limits						
4-Bromofluorobenzene	93			45 - 131						
1,2-Dichloroethane-d4 (Surr)	93			60 - 140						
Toluene-d8 (Surr)	104			58 - 140						

Lab Sample ID: 720-36352-7 MSD

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: 1 ESW-B

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Sample	Sample	Spike	MSD		Unit	D	% Rec	% Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Methyl tert-butyl ether	ND		49.1	49.5		ug/Kg		101	69 - 130		5	20
Acetone	ND		246	234		ug/Kg		95	37 - 150		7	20
Benzene	ND		49.1	52.7		ug/Kg		107	70 - 130		3	20
Dichlorobromomethane	ND		49.1	52.5		ug/Kg		107	64 - 135		2	20
Bromobenzene	ND		49.1	49.5		ug/Kg		101	70 - 130		5	20
Chlorobromomethane	ND		49.1	51.5		ug/Kg		105	65 - 130		10	20
Bromoform	ND		49.1	46.8		ug/Kg		95	58 - 132		5	20
Bromomethane	ND		49.1	51.3		ug/Kg		104	56 - 130		6	20
2-Butanone (MEK)	ND		246	228		ug/Kg		93	41 - 150		8	20
n-Butylbenzene	ND		49.1	53.6		ug/Kg		109	60 - 145		4	20
sec-Butylbenzene	ND		49.1	52.7		ug/Kg		107	64 - 137		3	20
tert-Butylbenzene	ND		49.1	52.5		ug/Kg		107	63 - 134		4	20
Carbon disulfide	ND		49.1	48.7		ug/Kg		99	10 - 150		2	20
Carbon tetrachloride	ND		49.1	51.9		ug/Kg		106	54 - 130		3	20
Chlorobenzene	ND		49.1	48.7		ug/Kg		99	70 - 130		2	20
Chloroethane	ND		49.1	51.3		ug/Kg		104	61 - 130		2	20
Chloroform	ND		49.1	50.9		ug/Kg		104	67 - 130		2	20
Chloromethane	ND		49.1	44.4		ug/Kg		90	50 - 131		1	20
2-Chlorotoluene	ND		49.1	53.0		ug/Kg		108	70 - 130		4	20
4-Chlorotoluene	ND		49.1	51.3		ug/Kg		104	70 - 130		5	20
Chlorodibromomethane	ND		49.1	50.7		ug/Kg		103	60 - 141		3	20
1,2-Dichlorobenzene	ND		49.1	46.4		ug/Kg		94	70 - 130		4	20
1,3-Dichlorobenzene	ND		49.1	48.7		ug/Kg		99	70 - 130		5	20
1,4-Dichlorobenzene	ND		49.1	47.3		ug/Kg		96	70 - 130		5	20
1,3-Dichloropropane	ND		49.1	50.5		ug/Kg		103	70 - 130		4	20
1,1-Dichloropropene	ND		49.1	53.8		ug/Kg		110	67 - 130		2	20
1,2-Dibromo-3-Chloropropane	ND		49.1	44.2		ug/Kg		90	57 - 130		8	20
Ethylene Dibromide	ND		49.1	50.1		ug/Kg		102	66 - 135		4	20

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-36352-7 MSD

Matrix: Solid

Analysis Batch: 95732

Client Sample ID: 1 ESW-B

Prep Type: Total/NA

Prep Batch: 95878

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Dibromomethane	ND		49.1	49.9		ug/Kg		102	65 - 131	4	20
Dichlorodifluoromethane	ND		49.1	42.4		ug/Kg		86	38 - 130	2	20
1,1-Dichloroethane	ND		49.1	51.5		ug/Kg		105	67 - 130	2	20
1,2-Dichloroethane	ND		49.1	48.3		ug/Kg		98	70 - 130	4	20
1,1-Dichloroethene	ND		49.1	50.1		ug/Kg		102	64 - 130	2	20
cis-1,2-Dichloroethene	ND		49.1	58.9		ug/Kg		120	68 - 131	2	20
trans-1,2-Dichloroethene	ND		49.1	45.4		ug/Kg		92	70 - 130	2	20
1,2-Dichloropropane	ND		49.1	51.3		ug/Kg		104	65 - 133	2	20
cis-1,3-Dichloropropene	ND		49.1	51.9		ug/Kg		106	46 - 139	3	20
trans-1,3-Dichloropropene	ND		49.1	51.9		ug/Kg		106	55 - 131	5	20
Ethylbenzene	ND		49.1	50.9		ug/Kg		104	65 - 130	2	20
Hexachlorobutadiene	ND		49.1	48.1		ug/Kg		98	58 - 132	8	20
2-Hexanone	ND		246	248		ug/Kg		101	44 - 150	9	20
Isopropylbenzene	ND		49.1	52.7		ug/Kg		107	65 - 130	2	20
4-Isopropyltoluene	ND		49.1	52.7		ug/Kg		107	69 - 134	3	20
Methylene Chloride	ND		49.1	44.8		ug/Kg		91	63 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		246	242		ug/Kg		99	51 - 140	9	20
Naphthalene	ND		49.1	40.3		ug/Kg		82	45 - 146	10	20
N-Propylbenzene	ND		49.1	51.3		ug/Kg		104	70 - 130	4	20
Styrene	ND		49.1	51.9		ug/Kg		106	58 - 135	4	20
1,1,1,2-Tetrachloroethane	ND		49.1	49.3		ug/Kg		100	64 - 133	4	20
1,1,2,2-Tetrachloroethane	ND		49.1	32.2	F	ug/Kg		66	70 - 131	1	20
Tetrachloroethene	ND		49.1	53.4		ug/Kg		109	67 - 130	1	20
Toluene	ND		49.1	50.3		ug/Kg		102	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		49.1	43.4		ug/Kg		88	58 - 138	7	20
1,2,4-Trichlorobenzene	ND		49.1	44.2		ug/Kg		90	49 - 144	7	20
1,1,1-Trichloroethane	ND		49.1	52.1		ug/Kg		106	57 - 133	2	20
1,1,2-Trichloroethane	ND		49.1	49.3		ug/Kg		100	68 - 132	5	20
Trichloroethene	ND		49.1	65.8	F	ug/Kg		134	66 - 130	4	20
Trichlorofluoromethane	ND		49.1	54.4		ug/Kg		111	61 - 130	2	20
1,2,3-Trichloropropane	ND		49.1	45.6		ug/Kg		93	62 - 150	10	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.1	48.5		ug/Kg		99	52 - 130	2	20
1,2,4-Trimethylbenzene	ND		49.1	51.5		ug/Kg		105	64 - 140	3	20
1,3,5-Trimethylbenzene	ND		49.1	54.0		ug/Kg		110	67 - 134	5	20
Vinyl acetate	ND		49.1	ND	F	ug/Kg		14	52 - 150	24	20
Vinyl chloride	ND		49.1	51.5		ug/Kg		105	62 - 130	1	20
m-Xylene & p-Xylene	ND		98.2	101		ug/Kg		102	70 - 130	2	20
o-Xylene	ND		49.1	51.3		ug/Kg		104	68 - 130	2	20
2,2-Dichloropropane	ND		49.1	53.8		ug/Kg		110	63 - 130	1	20

Surrogate	MSD	MSD	Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	108		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95899/1-A
Matrix: Solid
Analysis Batch: 95819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95899

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Acetone	ND		50		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Benzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Dichlorobromomethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Bromobenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Chlorobromomethane	ND		20		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Bromoform	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Bromomethane	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
2-Butanone (MEK)	ND		50		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
n-Butylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
sec-Butylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
tert-Butylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Carbon disulfide	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Carbon tetrachloride	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Chlorobenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Chloroethane	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Chloroform	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Chloromethane	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Chlorodibromomethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,3-Dichloropropane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,1-Dichloropropene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Ethylene Dibromide	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Dibromomethane	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Dichlorodifluoromethane	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,1-Dichloroethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2-Dichloroethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2-Dichloropropane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Ethylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Hexachlorobutadiene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
2-Hexanone	ND		50		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Isopropylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
4-Isopropyltoluene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Methylene Chloride	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Naphthalene	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
N-Propylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Styrene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-95899/1-A

Matrix: Solid

Analysis Batch: 95819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95899

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Tetrachloroethene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Toluene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Trichloroethene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Trichlorofluoromethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Vinyl acetate	ND		50		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Vinyl chloride	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
o-Xylene	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Xylenes, Total	ND		10		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/23/11 09:47	07/23/11 11:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		07/23/11 09:47	07/23/11 11:32	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
4-Bromofluorobenzene	99		45 - 131	07/23/11 09:47	07/23/11 11:32	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140	07/23/11 09:47	07/23/11 11:32	1
Toluene-d8 (Surr)	97		58 - 140	07/23/11 09:47	07/23/11 11:32	1

Lab Sample ID: LCS 720-95899/2-A

Matrix: Solid

Analysis Batch: 95819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95899

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	49.8		ug/Kg		100	71 - 144
Acetone	250	236		ug/Kg		94	30 - 162
Benzene	50.0	50.2		ug/Kg		100	82 - 124
Dichlorobromomethane	50.0	48.6		ug/Kg		97	86 - 131
Bromobenzene	50.0	50.6		ug/Kg		101	88 - 120
Chlorobromomethane	50.0	51.8		ug/Kg		104	81 - 116
Bromoform	50.0	45.2		ug/Kg		90	59 - 158
Bromomethane	50.0	46.8		ug/Kg		94	59 - 132
2-Butanone (MEK)	250	258		ug/Kg		103	61 - 150
n-Butylbenzene	50.0	52.4		ug/Kg		105	80 - 142
sec-Butylbenzene	50.0	50.6		ug/Kg		101	85 - 136
tert-Butylbenzene	50.0	51.8		ug/Kg		104	71 - 130
Carbon disulfide	50.0	56.2		ug/Kg		112	60 - 136
Carbon tetrachloride	50.0	47.6		ug/Kg		95	81 - 138
Chlorobenzene	50.0	49.6		ug/Kg		99	87 - 113
Chloroethane	50.0	44.6		ug/Kg		89	69 - 141
Chloroform	50.0	48.8		ug/Kg		98	77 - 127
Chloromethane	50.0	44.8		ug/Kg		90	60 - 149

TestAmerica San Francisco

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95899/2-A

Matrix: Solid

Analysis Batch: 95819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95899

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec. Limits
	Added	Result	Qualifier				
2-Chlorotoluene	50.0	49.8		ug/Kg		100	80 - 138
4-Chlorotoluene	50.0	48.4		ug/Kg		97	79 - 136
Chlorodibromomethane	50.0	48.0		ug/Kg		96	75 - 146
1,2-Dichlorobenzene	50.0	49.6		ug/Kg		99	84 - 130
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	84 - 131
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	85 - 125
1,3-Dichloropropane	50.0	50.4		ug/Kg		101	79 - 140
1,1-Dichloropropene	50.0	51.8		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/Kg		99	68 - 145
Ethylene Dibromide	50.0	52.2		ug/Kg		104	79 - 140
Dibromomethane	50.0	49.0		ug/Kg		98	80 - 139
Dichlorodifluoromethane	50.0	40.8		ug/Kg		82	37 - 158
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	85 - 124
1,2-Dichloroethane	50.0	47.4		ug/Kg		95	72 - 130
1,1-Dichloroethene	50.0	55.6		ug/Kg		111	76 - 122
cis-1,2-Dichloroethene	50.0	56.2		ug/Kg		112	87 - 138
trans-1,2-Dichloroethene	50.0	45.8		ug/Kg		92	67 - 108
1,2-Dichloropropane	50.0	47.4		ug/Kg		95	73 - 127
cis-1,3-Dichloropropene	50.0	48.0		ug/Kg		96	68 - 147
trans-1,3-Dichloropropene	50.0	48.0		ug/Kg		96	84 - 136
Ethylbenzene	50.0	49.2		ug/Kg		98	80 - 137
Hexachlorobutadiene	50.0	55.2		ug/Kg		110	72 - 132
2-Hexanone	250	231		ug/Kg		92	60 - 161
Isopropylbenzene	50.0	51.0		ug/Kg		102	88 - 128
4-Isopropyltoluene	50.0	51.4		ug/Kg		103	85 - 133
Methylene Chloride	50.0	50.8		ug/Kg		102	72 - 134
4-Methyl-2-pentanone (MIBK)	250	233		ug/Kg		93	69 - 160
Naphthalene	50.0	51.4		ug/Kg		103	70 - 147
N-Propylbenzene	50.0	47.8		ug/Kg		96	72 - 125
Styrene	50.0	49.0		ug/Kg		98	89 - 126
1,1,1,2-Tetrachloroethane	50.0	46.2		ug/Kg		92	90 - 130
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	82 - 146
Tetrachloroethene	50.0	56.4		ug/Kg		113	78 - 132
Toluene	50.0	50.0		ug/Kg		100	83 - 128
1,2,3-Trichlorobenzene	50.0	54.8		ug/Kg		110	82 - 135
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	70 - 131
1,1,1-Trichloroethane	50.0	50.2		ug/Kg		100	80 - 127
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	82 - 125
Trichloroethene	50.0	52.8		ug/Kg		106	81 - 133
Trichlorofluoromethane	50.0	50.8		ug/Kg		102	71 - 139
1,2,3-Trichloropropane	50.0	49.8		ug/Kg		100	76 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.4		ug/Kg		115	70 - 130
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	84 - 130
1,3,5-Trimethylbenzene	50.0	51.2		ug/Kg		102	82 - 131
Vinyl acetate	50.0	ND		ug/Kg		92	38 - 176
Vinyl chloride	50.0	44.8		ug/Kg		90	63 - 140
m-Xylene & p-Xylene	100	95.4		ug/Kg		95	79 - 146
o-Xylene	50.0	49.0		ug/Kg		98	84 - 140
2,2-Dichloropropane	50.0	48.6		ug/Kg		97	73 - 162

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-95899/2-A

Matrix: Solid

Analysis Batch: 95819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95899

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCS 720-95899/4-A

Matrix: Solid

Analysis Batch: 95819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95899

Analyte	Spike Added	LCS LCS		Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO) -C5-C12	1000	864		ug/Kg		86	61 - 128	

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCSD 720-95899/3-A

Matrix: Solid

Analysis Batch: 95819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95899

Analyte	Spike Added	LCSD LCSD		Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Methyl tert-butyl ether	50.0	49.8		ug/Kg		100	71 - 144	0	20	
Acetone	250	197		ug/Kg		79	30 - 162	18	30	
Benzene	50.0	50.0		ug/Kg		100	82 - 124	0	20	
Dichlorobromomethane	50.0	50.0		ug/Kg		100	86 - 131	3	20	
Bromobenzene	50.0	51.4		ug/Kg		103	88 - 120	2	20	
Chlorobromomethane	50.0	53.2		ug/Kg		106	81 - 116	3	20	
Bromoform	50.0	46.6		ug/Kg		93	59 - 158	3	20	
Bromomethane	50.0	46.0		ug/Kg		92	59 - 132	2	20	
2-Butanone (MEK)	250	241		ug/Kg		96	61 - 150	7	20	
n-Butylbenzene	50.0	50.4		ug/Kg		101	80 - 142	4	20	
sec-Butylbenzene	50.0	49.4		ug/Kg		99	85 - 136	2	20	
tert-Butylbenzene	50.0	50.8		ug/Kg		102	71 - 130	2	20	
Carbon disulfide	50.0	53.6		ug/Kg		107	60 - 136	5	20	
Carbon tetrachloride	50.0	47.0		ug/Kg		94	81 - 138	1	20	
Chlorobenzene	50.0	49.8		ug/Kg		100	87 - 113	0	20	
Chloroethane	50.0	44.6		ug/Kg		89	69 - 141	0	20	
Chloroform	50.0	48.4		ug/Kg		97	77 - 127	1	20	
Chloromethane	50.0	45.2		ug/Kg		90	60 - 149	1	20	
2-Chlorotoluene	50.0	49.6		ug/Kg		99	80 - 138	0	20	
4-Chlorotoluene	50.0	47.6		ug/Kg		95	79 - 136	2	20	
Chlorodibromomethane	50.0	50.0		ug/Kg		100	75 - 146	4	20	
1,2-Dichlorobenzene	50.0	49.8		ug/Kg		100	84 - 130	0	20	
1,3-Dichlorobenzene	50.0	51.0		ug/Kg		102	84 - 131	1	20	
1,4-Dichlorobenzene	50.0	49.8		ug/Kg		100	85 - 125	1	20	
1,3-Dichloropropane	50.0	52.4		ug/Kg		105	79 - 140	4	20	
1,1-Dichloropropene	50.0	51.0		ug/Kg		102	70 - 130	2	20	
1,2-Dibromo-3-Chloropropane	50.0	47.0		ug/Kg		94	68 - 145	5	20	

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95899/3-A

Matrix: Solid

Analysis Batch: 95819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95899

Analyte	Spike	LCSD	LCSD	Unit	D	% Rec	% Rec.	RPD	RPD
	Added	Result	Qualifier						
Ethylene Dibromide	50.0	53.6		ug/Kg		107	79 - 140	3	20
Dibromomethane	50.0	50.4		ug/Kg		101	80 - 139	3	20
Dichlorodifluoromethane	50.0	40.4		ug/Kg		81	37 - 158	1	20
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	85 - 124	3	20
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	72 - 130	1	20
1,1-Dichloroethene	50.0	53.8		ug/Kg		108	76 - 122	3	20
cis-1,2-Dichloroethene	50.0	55.6		ug/Kg		111	87 - 138	1	20
trans-1,2-Dichloroethene	50.0	44.6		ug/Kg		89	67 - 108	3	20
1,2-Dichloropropane	50.0	49.2		ug/Kg		98	73 - 127	4	20
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 147	3	20
trans-1,3-Dichloropropene	50.0	49.6		ug/Kg		99	84 - 136	3	20
Ethylbenzene	50.0	48.4		ug/Kg		97	80 - 137	2	20
Hexachlorobutadiene	50.0	51.4		ug/Kg		103	72 - 132	7	20
2-Hexanone	250	222		ug/Kg		89	60 - 161	4	20
Isopropylbenzene	50.0	50.2		ug/Kg		100	88 - 128	2	20
4-Isopropyltoluene	50.0	49.8		ug/Kg		100	85 - 133	3	20
Methylene Chloride	50.0	50.2		ug/Kg		100	72 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	232		ug/Kg		93	69 - 160	1	20
Naphthalene	50.0	50.0		ug/Kg		100	70 - 147	3	20
N-Propylbenzene	50.0	46.4		ug/Kg		93	72 - 125	3	20
Styrene	50.0	49.2		ug/Kg		98	89 - 126	0	20
1,1,1,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	90 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/Kg		94	82 - 146	1	20
Tetrachloroethene	50.0	55.4		ug/Kg		111	78 - 132	2	20
Toluene	50.0	49.4		ug/Kg		99	83 - 128	1	20
1,2,3-Trichlorobenzene	50.0	53.4		ug/Kg		107	82 - 135	3	20
1,2,4-Trichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131	3	20
1,1,1-Trichloroethane	50.0	49.0		ug/Kg		98	80 - 127	2	20
1,1,2-Trichloroethane	50.0	51.6		ug/Kg		103	82 - 125	4	20
Trichloroethene	50.0	52.4		ug/Kg		105	81 - 133	1	20
Trichlorofluoromethane	50.0	51.6		ug/Kg		103	71 - 139	2	20
1,2,3-Trichloropropane	50.0	49.0		ug/Kg		98	76 - 146	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.2		ug/Kg		108	70 - 130	6	20
1,2,4-Trimethylbenzene	50.0	48.8		ug/Kg		98	84 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	82 - 131	1	20
Vinyl acetate	50.0	ND		ug/Kg		93	38 - 176	2	20
Vinyl chloride	50.0	45.0		ug/Kg		90	63 - 140	0	20
m-Xylene & p-Xylene	100	94.4		ug/Kg		94	79 - 146	1	20
o-Xylene	50.0	48.8		ug/Kg		98	84 - 140	0	20
2,2-Dichloropropane	50.0	46.6		ug/Kg		93	73 - 162	4	20

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	98		58 - 140

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-95899/5-A
Matrix: Solid
Analysis Batch: 95819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95899

Analyte	Spike Added	LCSD		Unit	D	% Rec	% Rec.		RPD
		Result	Qualifier				Limits	RPD	
Gasoline Range Organics (GRO) -C5-C12	1000	858		ug/Kg		86	61 - 128	1	20
Surrogate		% Recovery	Qualifier	Limits					
4-Bromofluorobenzene		97		45 - 131					
1,2-Dichloroethane-d4 (Surr)		96		60 - 140					
Toluene-d8 (Surr)		97		58 - 140					

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-95653/1-A
Matrix: Solid
Analysis Batch: 95726

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 95653

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/21/11 09:57	07/22/11 11:20	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.3		0 - 5				07/21/11 09:57	07/22/11 11:20	1
p-Terphenyl	101		38 - 148				07/21/11 09:57	07/22/11 11:20	1

Lab Sample ID: LCS 720-95653/2-A
Matrix: Solid
Analysis Batch: 95726

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 95653

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.		RPD
		Result	Qualifier				Limits	RPD	
Diesel Range Organics [C10-C28]	82.5	69.6		mg/Kg		84	50 - 150		
Surrogate		% Recovery	Qualifier	Limits					
p-Terphenyl		101		38 - 148					

Lab Sample ID: LCSD 720-95653/3-A
Matrix: Solid
Analysis Batch: 95726

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 95653

Analyte	Spike Added	LCSD		Unit	D	% Rec	% Rec.		RPD
		Result	Qualifier				Limits	RPD	
Diesel Range Organics [C10-C28]	82.6	69.0		mg/Kg		84	50 - 150	1	35
Surrogate		% Recovery	Qualifier	Limits					
p-Terphenyl		97		38 - 148					

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-36352-2 MS
Matrix: Solid
Analysis Batch: 95726

Client Sample ID: 3 WSW- A
Prep Type: Silica Gel Cleanup
Prep Batch: 95653

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Diesel Range Organics [C10-C28]	1100		82.5	878	4	mg/Kg		-280	50 - 150	
Surrogate	% Recovery	Qualifier	Limits							
<i>p-Terphenyl</i>	0	D	38 - 148							

Lab Sample ID: 720-36352-2 MSD
Matrix: Solid
Analysis Batch: 95726

Client Sample ID: 3 WSW- A
Prep Type: Silica Gel Cleanup
Prep Batch: 95653

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	% Rec	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Diesel Range Organics [C10-C28]	1100		83.3	801	4	mg/Kg		-371	50 - 150	9	20	
Surrogate	% Recovery	Qualifier	Limits									
<i>p-Terphenyl</i>	0	D	38 - 148									

Lab Sample ID: MB 720-95747/1-A
Matrix: Solid
Analysis Batch: 95811

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 95747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/22/11 09:31	07/23/11 16:10	1
Surrogate	% Recovery	Qualifier	Limits						
<i>Capric Acid (Surr)</i>	0.04		0 - 5						
<i>p-Terphenyl</i>	93		38 - 148						

Lab Sample ID: LCS 720-95747/2-A
Matrix: Solid
Analysis Batch: 95811

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 95747

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	% Rec.	
		Result	Qualifier				Limits	RPD
Diesel Range Organics [C10-C28]	82.6	75.2		mg/Kg		91	50 - 150	
Surrogate	% Recovery	Qualifier	Limits					
<i>p-Terphenyl</i>	95		38 - 148					

Lab Sample ID: LCSD 720-95747/3-A
Matrix: Solid
Analysis Batch: 95811

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 95747

Analyte	Spike Added	LCSD	LCSD	Unit	D	% Rec	% Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
Diesel Range Organics [C10-C28]	82.6	79.9		mg/Kg		97	50 - 150	6	35	
Surrogate	% Recovery	Qualifier	Limits							
<i>p-Terphenyl</i>	97		38 - 148							

QC Sample Results

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-95601/1-A
Matrix: Solid
Analysis Batch: 95708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95601

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	ND		0.13		mg/Kg		07/20/11 16:21	07/21/11 14:32	1
Chromium	ND		0.50		mg/Kg		07/20/11 16:21	07/21/11 14:32	1
Nickel	ND		0.50		mg/Kg		07/20/11 16:21	07/21/11 14:32	1
Lead	ND		0.50		mg/Kg		07/20/11 16:21	07/21/11 14:32	1
Zinc	ND		1.5		mg/Kg		07/20/11 16:21	07/21/11 14:32	1

Lab Sample ID: LCS 720-95601/2-A
Matrix: Solid
Analysis Batch: 95708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	50.0	51.0		mg/Kg		102	80 - 120
Nickel	50.0	48.7		mg/Kg		97	80 - 120
Lead	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 720-95601/3-A
Matrix: Solid
Analysis Batch: 95708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	
								RPD	Limit
Cadmium	50.0	48.0		mg/Kg		96	80 - 120	1	20
Chromium	50.0	50.1		mg/Kg		100	80 - 120	2	20
Nickel	50.0	48.5		mg/Kg		97	80 - 120	0	20
Lead	50.0	48.0		mg/Kg		96	80 - 120	0	20
Zinc	50.0	47.3		mg/Kg		95	80 - 120	1	20

QC Association Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

GC/MS VOA

Analysis Batch: 95703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95743/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95743
LCS 720-95743/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95743
LCSD 720-95743/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95743
LCS 720-95743/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95743
LCSD 720-95743/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95743
720-36352-17	SP-A,B,C,D	Total/NA	Solid	8260B/CA_LUFT MS	95743
720-36352-27	SP-I,J,K,L	Total/NA	Solid	8260B/CA_LUFT MS	95743
720-36352-32	SP-M,N,O,P	Total/NA	Solid	8260B/CA_LUFT MS	95743
720-36352-22	SP-E,F,G,H	Total/NA	Solid	8260B/CA_LUFT MS	95743

Analysis Batch: 95710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95759/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95759
LCS 720-95759/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95759
LCSD 720-95759/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95759
LCS 720-95759/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95759
LCSD 720-95759/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95759
720-36352-2	3 WSW- A	Total/NA	Solid	8260B/CA_LUFT MS	95759

Analysis Batch: 95732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95878/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95878
LCS 720-95878/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95878
LCSD 720-95878/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95878
LCS 720-95878/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95878
LCSD 720-95878/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-3	3 WSW- B	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-1	3 BASE- A	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-4	1 WSW- A	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-5	1 SSW-	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-6	1 ESW-A	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-7	1 ESW-B	Total/NA	Solid	8260B/CA_LUFT MS	95878



QC Association Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

GC/MS VOA (Continued)

Analysis Batch: 95732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36352-8	1 BASE-A	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-10	1 BASE-C	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-11	1 WSW-B	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-7 MS	1 ESW-B	Total/NA	Solid	8260B/CA_LUFT MS	95878
720-36352-7 MSD	1 ESW-B	Total/NA	Solid	8260B/CA_LUFT MS	95878

Prep Batch: 95743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95743/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95743/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95743/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95743/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95743/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36352-17	SP-A,B,C,D	Total/NA	Solid	5030B	
720-36352-27	SP-I,J,K,L	Total/NA	Solid	5030B	
720-36352-32	SP-M,N,O,P	Total/NA	Solid	5030B	
720-36352-22	SP-E,F,G,H	Total/NA	Solid	5030B	

Prep Batch: 95759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95759/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95759/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95759/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95759/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95759/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36352-2	3 WSW- A	Total/NA	Solid	5030B	

Analysis Batch: 95819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95899/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	95899
LCS 720-95899/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95899
LCSD 720-95899/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95899
LCS 720-95899/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	95899
LCSD 720-95899/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	95899
720-36352-9	1 BASE-B	Total/NA	Solid	8260B/CA_LUFT MS	95899
720-36352-12	3 SSW	Total/NA	Solid	8260B/CA_LUFT MS	95899
720-36352-22	SP-E,F,G,H	Total/NA	Solid	8260B/CA_LUFT MS	95899
720-36352-32	SP-M,N,O,P	Total/NA	Solid	8260B/CA_LUFT MS	95899

Prep Batch: 95878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95878/1-A	Method Blank	Total/NA	Solid	5030B	

QC Association Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

GC/MS VOA (Continued)

Prep Batch: 95878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-95878/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95878/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95878/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95878/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36352-3	3 WSW- B	Total/NA	Solid	5030B	
720-36352-1	3 BASE- A	Total/NA	Solid	5030B	
720-36352-4	1 WSW- A	Total/NA	Solid	5030B	
720-36352-5	1 SSW-	Total/NA	Solid	5030B	
720-36352-6	1 ESW-A	Total/NA	Solid	5030B	
720-36352-7	1 ESW-B	Total/NA	Solid	5030B	
720-36352-8	1 BASE-A	Total/NA	Solid	5030B	
720-36352-10	1 BASE-C	Total/NA	Solid	5030B	
720-36352-11	1 WSW-B	Total/NA	Solid	5030B	
720-36352-7 MS	1 ESW-B	Total/NA	Solid	5030B	
720-36352-7 MSD	1 ESW-B	Total/NA	Solid	5030B	

Prep Batch: 95899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95899/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 720-95899/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95899/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS 720-95899/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-95899/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
720-36352-9	1 BASE-B	Total/NA	Solid	5030B	
720-36352-12	3 SSW	Total/NA	Solid	5030B	
720-36352-22	SP-E,F,G,H	Total/NA	Solid	5030B	
720-36352-32	SP-M,N,O,P	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 95653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95653/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-95653/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-95653/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36352-1	3 BASE- A	Silica Gel Cleanup	Solid	3546	
720-36352-2	3 WSW- A	Silica Gel Cleanup	Solid	3546	
720-36352-2 MS	3 WSW- A	Silica Gel Cleanup	Solid	3546	
720-36352-2 MSD	3 WSW- A	Silica Gel Cleanup	Solid	3546	
720-36352-3	3 WSW- B	Silica Gel Cleanup	Solid	3546	
720-36352-4	1 WSW- A	Silica Gel Cleanup	Solid	3546	
720-36352-5	1 SSW-	Silica Gel Cleanup	Solid	3546	
720-36352-6	1 ESW-A	Silica Gel Cleanup	Solid	3546	
720-36352-7	1 ESW-B	Silica Gel Cleanup	Solid	3546	
720-36352-8	1 BASE-A	Silica Gel Cleanup	Solid	3546	
720-36352-9	1 BASE-B	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 95726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-95653/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	95653
LCSD 720-95653/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	95653
MB 720-95653/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	95653

QC Association Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

GC Semi VOA (Continued)

Analysis Batch: 95726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36352-2 MS	3 WSW- A	Silica Gel Cleanup	Solid	8015B	95653
720-36352-2 MSD	3 WSW- A	Silica Gel Cleanup	Solid	8015B	95653
720-36352-2	3 WSW- A	Silica Gel Cleanup	Solid	8015B	95653
720-36352-1	3 BASE- A	Silica Gel Cleanup	Solid	8015B	95653
720-36352-3	3 WSW- B	Silica Gel Cleanup	Solid	8015B	95653
720-36352-4	1 WSW- A	Silica Gel Cleanup	Solid	8015B	95653
720-36352-5	1 SSW-	Silica Gel Cleanup	Solid	8015B	95653
720-36352-6	1 ESW-A	Silica Gel Cleanup	Solid	8015B	95653
720-36352-7	1 ESW-B	Silica Gel Cleanup	Solid	8015B	95653
720-36352-8	1 BASE-A	Silica Gel Cleanup	Solid	8015B	95653
720-36352-9	1 BASE-B	Silica Gel Cleanup	Solid	8015B	95653

Prep Batch: 95747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95747/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 720-95747/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-95747/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
720-36352-10	1 BASE-C	Silica Gel Cleanup	Solid	3546	
720-36352-11	1 WSW-B	Silica Gel Cleanup	Solid	3546	
720-36352-12	3 SSW	Silica Gel Cleanup	Solid	3546	
720-36352-17	SP-A,B,C,D	Silica Gel Cleanup	Solid	3546	
720-36352-22	SP-E,F,G,H	Silica Gel Cleanup	Solid	3546	
720-36352-27	SP-I,J,K,L	Silica Gel Cleanup	Solid	3546	
720-36352-32	SP-M,N,O,P	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 95811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36352-10	1 BASE-C	Silica Gel Cleanup	Solid	8015B	95747
720-36352-11	1 WSW-B	Silica Gel Cleanup	Solid	8015B	95747
720-36352-12	3 SSW	Silica Gel Cleanup	Solid	8015B	95747
LCS 720-95747/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	95747
LCSD 720-95747/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	95747
MB 720-95747/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	95747

Analysis Batch: 95863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-36352-17	SP-A,B,C,D	Silica Gel Cleanup	Solid	8015B	95747
720-36352-22	SP-E,F,G,H	Silica Gel Cleanup	Solid	8015B	95747
720-36352-27	SP-I,J,K,L	Silica Gel Cleanup	Solid	8015B	95747
720-36352-32	SP-M,N,O,P	Silica Gel Cleanup	Solid	8015B	95747

Metals

Prep Batch: 95601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95601/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-95601/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-95601/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
720-36352-27	SP-I,J,K,L	Total/NA	Solid	3050B	
720-36352-32	SP-M,N,O,P	Total/NA	Solid	3050B	

QC Association Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Metals (Continued)

Analysis Batch: 95708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-95601/1-A	Method Blank	Total/NA	Solid	6010B	95601
LCS 720-95601/2-A	Lab Control Sample	Total/NA	Solid	6010B	95601
LCSD 720-95601/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	95601
720-36352-27	SP-I,J,K,L	Total/NA	Solid	6010B	95601
720-36352-32	SP-M,N,O,P	Total/NA	Solid	6010B	95601

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- 13
- 14

Lab Chronicle

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Client Sample ID: 3 BASE- A

Lab Sample ID: 720-36352-1

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 12:59	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 15:46	DH	TAL SF

Client Sample ID: 3 WSW- A

Lab Sample ID: 720-36352-2

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95759	07/21/11 17:35	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95710	07/21/11 23:13	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		10	95726	07/22/11 13:49	DH	TAL SF

Client Sample ID: 3 WSW- B

Lab Sample ID: 720-36352-3

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 12:30	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 16:10	DH	TAL SF

Client Sample ID: 1 WSW- A

Lab Sample ID: 720-36352-4

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 13:28	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 16:33	DH	TAL SF

Client Sample ID: 1 SSW-

Lab Sample ID: 720-36352-5

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 13:56	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 16:57	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Client Sample ID: 1 ESW-A

Lab Sample ID: 720-36352-6

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 14:25	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 17:21	DH	TAL SF

Client Sample ID: 1 ESW-B

Lab Sample ID: 720-36352-7

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 14:54	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 17:44	DH	TAL SF

Client Sample ID: 1 BASE-A

Lab Sample ID: 720-36352-8

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 15:22	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 18:08	DH	TAL SF

Client Sample ID: 1 BASE-B

Lab Sample ID: 720-36352-9

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95899	07/23/11 09:47	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95819	07/23/11 14:27	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95653	07/21/11 09:57	AM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95726	07/22/11 18:31	DH	TAL SF

Client Sample ID: 1 BASE-C

Lab Sample ID: 720-36352-10

Date Collected: 07/18/11 09:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 16:20	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95747	07/22/11 13:06	JRM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95811	07/23/11 11:43	DH	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Client Sample ID: 1 WSW-B

Lab Sample ID: 720-36352-11

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95878	07/22/11 07:50	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95732	07/22/11 16:48	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95747	07/22/11 13:06	JRM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95811	07/23/11 12:07	DH	TAL SF

Client Sample ID: 3 SSW

Lab Sample ID: 720-36352-12

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95899	07/23/11 09:47	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95819	07/23/11 14:58	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95747	07/22/11 13:06	JRM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95811	07/23/11 12:31	DH	TAL SF

Client Sample ID: SP-A,B,C,D

Lab Sample ID: 720-36352-17

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95743	07/21/11 19:34	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95703	07/22/11 05:07	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95747	07/22/11 13:06	JRM	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	95863	07/25/11 10:10	DH	TAL SF

Client Sample ID: SP-E,F,G,H

Lab Sample ID: 720-36352-22

Date Collected: 07/18/11 11:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95743	07/21/11 19:34	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95703	07/22/11 06:40	AC	TAL SF
Total/NA	Prep	5030B			95899	07/23/11 09:47	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95819	07/23/11 16:00	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95747	07/22/11 13:06	JRM	TAL SF
Silica Gel Cleanup	Analysis	8015B		3	95863	07/25/11 10:34	DH	TAL SF

Client Sample ID: SP-I,J,K,L

Lab Sample ID: 720-36352-27

Date Collected: 07/18/11 12:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95743	07/21/11 19:34	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95703	07/22/11 05:38	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95747	07/22/11 13:06	JRM	TAL SF

Lab Chronicle

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Client Sample ID: SP-I,J,K,L

Lab Sample ID: 720-36352-27

Date Collected: 07/18/11 12:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Silica Gel Cleanup	Analysis	8015B		10	95863	07/25/11 11:09	DH	TAL SF
Total/NA	Prep	3050B			95601	07/20/11 16:21	JR	TAL SF
Total/NA	Analysis	6010B		4	95708	07/21/11 15:50	BA	TAL SF

Client Sample ID: SP-M,N,O,P

Lab Sample ID: 720-36352-32

Date Collected: 07/18/11 12:00

Matrix: Solid

Date Received: 07/18/11 14:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			95743	07/21/11 19:34	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95703	07/22/11 06:09	AC	TAL SF
Total/NA	Prep	5030B			95899	07/23/11 09:47	AC	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	95819	07/23/11 16:31	AC	TAL SF
Silica Gel Cleanup	Prep	3546			95747	07/22/11 13:06	JRM	TAL SF
Silica Gel Cleanup	Analysis	8015B		20	95863	07/25/11 11:34	DH	TAL SF
Total/NA	Prep	3050B			95601	07/20/11 16:21	JR	TAL SF
Total/NA	Analysis	6010B		4	95708	07/21/11 15:54	BA	TAL SF

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Certification Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica San Francisco	California	State Program	9	2496

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

- 1
- 2
- 3
- 4
- 5
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- 13
- 14

Method Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

- 1
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- 14

Sample Summary

Client: Engeo, Inc.
Project/Site: 1000 N vasco RD

TestAmerica Job ID: 720-36352-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-36352-1	3 BASE- A	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-2	3 WSW- A	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-3	3 WSW- B	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-4	1 WSW- A	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-5	1 SSW-	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-6	1 ESW-A	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-7	1 ESW-B	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-8	1 BASE-A	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-9	1 BASE-B	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-10	1 BASE-C	Solid	07/18/11 09:00	07/18/11 14:32
720-36352-11	1 WSW-B	Solid	07/18/11 11:00	07/18/11 14:32
720-36352-12	3 SSW	Solid	07/18/11 11:00	07/18/11 14:32
720-36352-17	SP-A,B,C,D	Solid	07/18/11 11:00	07/18/11 14:32
720-36352-22	SP-E,F,G,H	Solid	07/18/11 11:00	07/18/11 14:32
720-36352-27	SP-I,J,K,L	Solid	07/18/11 12:00	07/18/11 14:32
720-36352-32	SP-M,N,O,P	Solid	07/18/11 12:00	07/18/11 14:32

Report To **Analysis Request**

Attn: Jeff Adams
 Company: ENGEO
 Address: 2213 Plaza Dr, Rocklin, CA
 Phone: _____ Email: jadams@engeo.com
 Bill To: ENGEO (San Ramon) Sampled By: Morgan Johnson
 Attn: _____ Phone: 916-580-6518

TPH EPA: 8260B Gas w/ BTEX MTBE
 TEPM EPA 8015M* Silica Gel Diesel Motor Oil Other
 EPA 8260B: Gas BTEX 5 Oxygenates DCA, EDB Ethanol
 (HVOCs) EPA 8021 by 8260B
 Volatile Organics GC/MS (VOCs) EPA 8260B 624
 Semivolatiles GC/MS EPA 8270 825
 Oil and Grease Petroleum (EPA 1664) Total
 Pesticides EPA 8081 608 EPA 8082 508
 PCBs
 PNAs by 8270 8310
 CAM17 Metals (EPA 6010/7470/7471)
 Metals: Lead LUFT RCRA Other
 Low Level Metals by EPA 200.8/6020 (ICP-MS):
 WET (STLC) TCLP
 Hexavalent Chromium pH (24h hold time for H₂O)
 Spec. Cond. Alkalinity TSS TDS
 Anions: Cl SO₄ NO₃ F Br NO₂ PO₄
 Number of Containers

Sample ID	Date	Time	Mat	Preserv	TPH EPA	TEPM EPA	EPA 8260B	(HVOCs)	Volatile Organics	Semivolatiles	Oil and Grease	Pesticides	PCBs	PNAs	CAM17 Metals	Metals	Low Level Metals	WET	TCLP	Hexavalent Chromium	pH	Spec. Cond.	Alkalinity	TSS	TDS	Anions	Number of Containers
1-3BASE-A	7/18/11	9:00	Soil		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																				
2-3WSW-A																											
3-3WSW-B																											
4-1WSW-A																											
5-1SSW																											
6-1ESW-A																											
7-1ESW-B																											
8-1BASE-A																											
9-1BASE-B																											
10-1BASE-C																											

Project Info
 Project Name: 1000 N Vasco Rd
 Project#: 7380000003
 PO#: 7380000003
 Credit Card#: _____

Sample Receipt
 # of Containers: 28
 Head Space: _____
 Temp: 26.72
 Conforms to record: _____

1) Relinquished by:
 Signature: [Signature] Time: 2:32
 Printed Name: Morgan Johnson Date: 7/18/11
 Company: _____

2) Relinquished by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3) Relinquished by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
 Special Instructions / Comments: Global ID _____
Four Composites (4 to 1)

See Terms and Conditions on reverse
 *TestAmerica SF reports 8015M from C₉-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₄

1) Received by:
 Signature: [Signature] Time: 1432
 Printed Name: [Name] Date: 7/18/11
 Company: TESTAMERICA

2) Received by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3) Received by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

Report To **Analysis Request**

Attn: _____
 Company: _____
 Address: _____
 Phone: _____ Email: _____
 Bill To: _____ Sampled By: _____
 Attn: _____ Phone: _____

TPH EPA: 8260B Gas w/ BTEX MTBE
 TEPH EPA 8015M* Silica Gel Diesel Motor Oil Other _____
 EPA 8260B: Gas BTEX 5 Drygenates DCA, EDB Ethanol
 (HVOCs) EPA 8021 by 8260B
 Volatile Organics GC/MS (VOCs) EPA 8260B 624
 Semivolatiles GC/MS EPA 8270 625
 Oil and Grease Petroleum (EPA 1664) Total
 Pesticides EPA 8081 608 608
 PCBs EPA 8082 608
 PNAs by 8270 8310
 CAM17 Metals (EPA 6010/7470/7471)
 Metals: Lead LUFT RCRA Other _____
 Low Level Metals by EPA 200.8/6020 (ICP-MS):
 WET (STLC) TCLP
 Hexavalent Chromium pH (24h hold time for H₂O)
 Spec. Cond. Alkalinity TSS TDS
 Anions: Cl SO₄ NO₃ F Br NO₂ PO₄

Sample ID	Date	Time	Mat	Preserv	TPH EPA	TEPH EPA	EPA 8260B	(HVOCs)	Volatile Organics	Semivolatiles	Oil and Grease	Pesticides	PCBs	PNAs	CAM17 Metals	Metals	Low Level Metals	WET	TCLP	Hexavalent Chromium	pH	Spec. Cond.	Alkalinity	TSS	TDS	Anions	Number of Containers
11-1 WSW-B	7/18/11	11:00	Soil			X	X	X																			
12-3 SSW																											
13-SP-A																											
14-SP-B																											
15-SP-C																											
16-SP-D																											
18-SP-E																											
19-SP-F																											
20-SP-G																											
21-SP-H																											

Project Info
 Project Name: 1000 N Vasco Rd
 Project#: _____
 PO#: _____
 Credit Card#: _____

Sample Receipt
 # of Containers: _____
 Head Space: _____
 Temp: 26.7°C
 Conforms to record: _____

1) Relinquished by:
 Signature: *[Signature]* Time: 2:32
 Printed Name: Morgan Johnson Date: 7/18/11
 Company: _____

2) Relinquished by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3) Relinquished by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

T A T 5 Day 3 Day 2 Day 1 Day Other: _____
 Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
 Special Instructions / Comments: Global ID _____

1) Received by:
 Signature: *[Signature]* Time: 1432
 Printed Name: _____ Date: 7/18/11
 Company: LASTP

2) Received by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

3) Received by:
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

See Terms and Conditions on reverse
 *TestAmerica SF reports 8015M from C₁-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₈

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA San Francisco Chain of Custody
 1220 Quarry Lane • Pleasanton CA 94566-4756
 Phone: (925) 484-1919 • Fax: (925) 600-3002

720-36352

Reference #: 132538

Date 7/18/11 Page 3 of 3

Report To Analysis Request

Attn:		TPH EPA: <input type="checkbox"/> 8260B	
Company:		<input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	
Address:		TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel	
Phone:	Email:	<input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	
Bill To:	Sampled By:	EPA 8260B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> BTEX	
Attn:	Phone:	<input type="checkbox"/> 5 Oxygenates <input type="checkbox"/> DCA, ED6 <input type="checkbox"/> Ethanol	

Sample ID	Date	Time	Mat	Preserv	TPH EPA	TEPH EPA 8015M*	EPA 8260B	(HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS	Semivolatiles GC/MS	Oil and Grease (EPA 1664)	Pesticides	PCBs	PNAs by	CAM17 Metals	Metals	Low Level Metals by EPA 200.816020 (ICP-MS)	W.E.T (STLC)	Hexavalent Chromium	Spec. Cond.	Alkalinity	Anions	Number of Containers	
23 - SP-I	7/18/11	12:00	Soil		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24 - SP-J	Comp																							
25 - SP-K																								
26 - SP-L																								
28 - SP-M	Comp																							
29 - SP-N																								
30 - SP-O																								
31 - SP-P		12:30			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Project Info	Sample Receipt
Project Name: 1000 N Vasco Rd	# of Containers:
Project#:	Head Space:
PO#:	Temp: 26-78
Credit Card#:	Conforms to record:

1) Relinquished by:

Signature: *[Signature]* Time: 2:32

Printed Name: Morgan Johnson Date: 7/18/11

Company:

2) Relinquished by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

3) Relinquished by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

T A T	5 Day	3 Day	2 Day	1 Day	Other:
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF					
Special Instructions / Comments: <input type="checkbox"/> Global ID _____					

1) Received by:

Signature: *[Signature]* Time: 1932

Printed Name: TAST Date: 7/18/11

Company:

2) Received by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

3) Received by:

Signature: _____ Time: _____

Printed Name: _____ Date: _____

Company: _____

See Terms and Conditions on reverse
 *TestAmerica SF reports 8015M from C₁-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₈

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-36352-1

Login Number: 36352

List Source: TestAmerica San Francisco

List Number: 1

Creator: Apostol, Anita

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

APPENDIX B

Soil Off-haul Summary Report and Sample Manifest Ticket

All Facilities

DETAILED REPORT

Ticket Type: All Ticket Types

Ticket Number	Customer	Material	Billing Quantity	Minimum Quantity	Maximum Quantity	Material Total	Tax Total	Total	Contract Rate
9 111 136290-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	15.61 TN	0.00	0.00				
9 111 136297-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	17.75 TN	0.00	0.00				
9 111 136298-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	17.39 TN	0.00	0.00				
9 111 136293-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	17.16 TN	0.00	0.00				
9 111 136295-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	16.98 TN	0.00	0.00				
9 111 136302-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	17.03 TN	0.00	0.00				
9 111 136305-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.54 TN	0.00	0.00				
9 111 136300-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.06 TN	0.00	0.00				
9 111 136303-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	23.01 TN	0.00	0.00				
9 111 136304-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.85 TN	0.00	0.00				
9 111 136307-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.49 TN	0.00	0.00				
9 111 136308-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.33 TN	0.00	0.00				
9 111 136311-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.07 TN	0.00	0.00				
9 111 136313-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.85 TN	0.00	0.00				
9 111 136314-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.08 TN	0.00	0.00				
9 111 136315-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.02 TN	0.00	0.00				
9 111 136318-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.60 TN	0.00	0.00				
9 111 136320-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	17.45 TN	0.00	0.00				
9 111 136321-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.24 TN	0.00	0.00				
9 111 136322-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	17.76 TN	0.00	0.00				
9 111 136325-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.93 TN	0.00	0.00				
9 111 136326-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.27 TN	0.00	0.00				
9 111 136328-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.66 TN	0.00	0.00				
9 111 136333-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.31 TN	0.00	0.00				
9 111 136339-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	16.43 TN	0.00	0.00				
9 111 136340-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.51 TN	0.00	0.00				
9 111 136344-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	16.51 TN	0.00	0.00				
9 111 136346-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.13 TN	0.00	0.00				
9 111 136349-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.00 TN	0.00	0.00				
9 111 136350-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.25 TN	0.00	0.00				
9 111 136351-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.57 TN	0.00	0.00				
9 111 136353-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.90 TN	0.00	0.00				
9 111 136357-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.84 TN	0.00	0.00				
9 111 136358-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	16.84 TN	0.00	0.00				
9 111 136361-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.07 TN	0.00	0.00				
9 111 136370-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	15.35 TN	0.00	0.00				
9 111 136371-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	20.52 TN	0.00	0.00				
9 111 136372-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	18.88 TN	0.00	0.00				
9 111 136377-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DA	19.22 TN	0.00	0.00				

12556

All Facilities

DETAILED REPORT

Ticket Type: All Ticket Types

Ticket Number	Customer	Material	Billing Quantity	Minimum Quantity	Maximum Quantity	Material Total	Tax Total	Total	Contract Rate
g 11 136379-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.01 TN	0.00	0.00				
g 11 136382-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	18.46 TN	0.00	0.00				
g 11 136385-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	19.90 TN	0.00	0.00				
g 11 136395-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	17.73 TN	0.00	0.00				
g 11 136396-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	19.79 TN	0.00	0.00				
g 11 136398-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	18.44 TN	0.00	0.00				
g 11 136400-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	18.04 TN	0.00	0.00				
g 11 136406-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	17.14 TN	0.00	0.00				
g 11 136409-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	17.75 TN	0.00	0.00				
g 11 136410-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	18.11 TN	0.00	0.00				
g 11 136421-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.48 TN	0.00	0.00				
g 11 136422-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.04 TN	0.00	0.00				
g 11 136425-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	18.14 TN	0.00	0.00				
g 11 136427-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.80 TN	0.00	0.00				
g 11 136433-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	15.50 TN	0.00	0.00				
g 11 136438-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.22 TN	0.00	0.00				
g 11 136439-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.33 TN	0.00	0.00				
g 11 136441-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.52 TN	0.00	0.00				
g 11 136444-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	17.46 TN	0.00	0.00				
g 11 136446-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	19.08 TN	0.00	0.00				
g 11 136448-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	19.41 TN	0.00	0.00				
g 11 136450-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	14.23 TN	0.00	0.00				
g 11 136455-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	19.60 TN	0.00	0.00				
g 11 136458-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	16.25 TN	0.00	0.00				
g 11 136459-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	17.20 TN	0.00	0.00				
g 11 136463-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	17.73 TN	0.00	0.00				
g 11 136464-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	17.99 TN	0.00	0.00				
g 11 136465-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	14.37 TN	0.00	0.00				
g 11 136472-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	20.66 TN	0.00	0.00				
g 11 136486-00	021318-0000 - R & B EQUIPMI	SW-CONT SOIL-ALT DAI	18.74 TN	0.00	0.00				

CONTRACT TOTALS :

Summary	Inbound		Outbound		Billing Quantity	Contract Ordered	Ordered Variance	Total
	Weight	Volume	Weight	Volume				
SW-CONT SOIL-ALT DAI	1,257.58 TN	0.00 YD	0.00 TN	0.00 YD	1,257.58 TN	0.00	1,257.58	



REPUBLIC SERVICES
VASCO ROAD LANDFILL, LLC
 4001 N. Vasco Road, Livermore, CA 94551
 (925) 447-0491

49945

SITE	TICKET	GRID
1	100010	1001
DEPUTY WEIGHMASTER		
M. [Signature]		
DATE IN	TIME IN	
18 August 2011	11:00 AM	
DATE OUT	TIME OUT	
18 August 2011	12:00 PM	
VEHICLE		
301P6		
REFERENCE	ORIGIN	
100010	LIVERMORE	

100010
 100010
 100010
 100010
 100010

100010
 100010
 100010
 100010
 100010

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
1	YR	SM-COIT WOTL-ALT DAILY COEF				

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution. All children must remain in vehicles. Absolutely no salvaging allowed.

WEIGHMASTER CERTIFICATE
 THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food & Agriculture.

NET AMOUNT
TENDERED
CHANGE

Driver: [Signature] 1126
CUSTOMER

Deputy Weighmaster: [Signature]