Project No.
9432.000.000

January 4, 2013

Ms. Dilan Roe
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6540

Subject: Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Fuel Leak Case No. RO0003014
Dublin, California

GROUNDWATER INVESTIGATION

Dear Ms. Roe:

ENGEO is pleased to present this groundwater investigation for the subject property ("Property"), located at 7544 Dublin Boulevard and 6707 Golden Gate Drive in Dublin, California (Figure 1). We have performed the investigation based on the consulting team's and the Property owner's request to further explore potential upgradient sources for a chlorinated solvent plume that extends across the northern portion of the Property. The plume, consisting primarily of tetrachloroethene (PCE), exhibits maximum on-site concentrations at the western Property border, suggesting a source or origin located off-site, to the west of the Property.

BACKGROUND

The Property, consisting of two parcels measuring a total of 6.33 acres in area, 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. Specific details pertaining to subsurface stratigraphy are presented in Table 1 and Figures 3, 4, and 5 of the referenced August 2012 AMEC work plan. In general, soils at the Property consist of finer-grained deposits (clays and silts) with interbedded lenses of sand. Groundwater has been encountered at depths between 9 and 15 feet below the ground surface, although fluctuations in groundwater levels may be expected during seasonal changes or over a period of years because of precipitation changes and changes in drainage patterns. Recent sampling and measurement of groundwater monitoring wells at the Property indicate that the shallow groundwater gradient is generally directed toward the east-northeast to east.

As presented in Section 2.0 of the referenced August 2012 AMEC work plan, the Property has been operated as an automotive dealership since 1968, including retail sales of automobiles and related automotive repair services. Operations at the Property have been significantly reduced in recent years. Details of past investigations, remediation activities, and contaminants of concern

(COCs) present at the Property are provided in Section 2.0 of the referenced August 2012 AMEC work plan. A preliminary site conceptual model is presented in Table 1 of the referenced August 2012 AMEC work plan.

Specifically, this study was focused on further assessment of chlorinated solvent plume conditions upgradient from the Property.

DATA GAPS AND OBJECTIVE OF STUDY

Based on a review of the previously reported environmental investigations and mitigation activities, the objective of this study is to address one specific data gap, as presented in the August 2012 AMEC work plan:

- *Upgradient delineation of PCE plume* – The recent site investigation performed by AMEC, combined with data obtained in prior investigations by Basics Environmental (2009), Ninyo & Moore (2011), and AMEC (2011), identified the presence of a chlorinated solvent plume extending across the northern portion of the Property. Based on the collected data, the highest detected PCE concentrations are present at the western Property boundary, indicating that the plume is likely emanating from an off-site source(s) located to the west of the Property. A sanitary sewer extends in a north/south direction through the middle of Golden Gate Drive, and has been identified as a potential source/origin of the plume. Borings will be situated within Golden Gate Drive to the west of the sewer line in the locations depicted on Figure 2 to assess if the source of PCE in groundwater is west or east of the sewer line. If PCE is detected in the borings at concentrations similar to those detected during AMEC's 2012 investigation, the source may be upgradient of the sewer line; if PCE is not detected or is detected at significantly lower concentrations than at the western Property boundary, the source of PCE to groundwater may be the sewer line.

For convenience, this identified data gap is presented in tabular form in Table 1 with the previous data gaps identified by AMEC and presented in their referenced August 2012 work plan.

FIELD EXPLORATION

Field exploration operations were performed on October 26, 2012. A total of four grab groundwater samples were collected from first encountered groundwater from four borings situated on the west side of Golden Gate Drive, as depicted on Figure 2. This is a deviation from the sampling plan outlined in the ENGEO referenced workplan, dated October 16, 2012; due to minimal groundwater infiltration, grab groundwater samples could not be collected from proposed sample locations CG-1 and CG-2.

ENGEO obtained a soil boring permit from Zone 7 Water Agency and an encroachment permit from the City of Dublin (Appendix A). Additionally, ENGEO marked the proposed boring locations with white paint and contacted Underground Service Alert (USA) for utilities clearance. Further, a private utility locator was used to determine the potential presence of underground utilities at each proposed boring location. Specific method for locating underground utilities included the use of a magnetometer and ground penetrating radar (GPR).

Vironex, Inc., a C-57 licensed drilling contractor based in Concord, California, was retained to advance the groundwater grab sampling borings using Geoprobe® direct push technology. A dual-tube Geoprobe system was used. The first five feet of each boring was advanced using a hand auger. All borings were logged by an ENGEO engineer under the supervision of a Professional Engineer based on the Unified Soil Classification System (USCS) and are presented in Appendix B. Onsite workers possessed OSHA HAZWOPER training (24/40 hour), and a site-specific health and safety plan (HASP) was implemented. A copy of the HASP is presented in the referenced October 16, 2012 workplan.

Borings were advanced to depths ranging between 20 and 25 feet below the ground surface. The groundwater samples were collected from the depth of the first encountered groundwater, which ranged from approximately 17 to 18 feet below the ground surface. Following advancement of the boring to the desired sampling depth, temporary polyvinyl chloride (PVC) casing was placed within the outer drill casing. The PVC included a five-foot-long, 0.01-inch slotted screen. Once the PVC casing was in place, the outer drill casing was retracted approximately 5 feet, exposing the PVC casing screening and allowing for the infiltration of groundwater. The depth to the groundwater surface within each respective casing rose to approximately 13 feet; depths were measured using a decontaminated electronic water level indicator. Prior to groundwater sample collection, a dedicated, single-use disposable polyethylene (PE) bailer was used to purge the PVC casing until the groundwater was relatively sediment-free and field parameters, including dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance, had stabilized. The purge water was transferred into labeled 55-gallon drums to be temporarily stored pending disposal.

Following the completion of purging process for a given sample location, a groundwater sample was collected using the single-use bailer described above. The groundwater samples were placed in laboratory-provided glassware preserved with hydrochloric acid (HCl). Upon collection of samples, a sample label was placed on each container indicating the sample ID and date and time of collection. The samples were placed in an ice-cooled chest for delivery under documented chain-of-custody to TestAmerica Laboratories, Inc., a State-accredited laboratory in Pleasanton, California, for analysis. Additionally, a duplicate sample was collected from Boring CG-3, which was randomly selected from the boring locations. Further, a trip blank sample was included with the collected groundwater samples within the transport cooler.

Soil cuttings were screened with a calibrated photoionization detector (PID) for volatile organic vapors. Because no evidence of soil impact was encountered, no soil samples were collected. A summary of field sampling activities as well as groundwater parameters are presented in a field sampling log (Appendix C). Following completion of sampling, the borings were backfilled with neat cement grout using a tremie pipe to seal the total depth of the boring in accordance with Zone 7 Water Agency protocols.

LABORATORY ANALYTICAL METHODS

The grab groundwater samples were analyzed for the following target analytes:

- Volatile organic compounds (VOCs) and total petroleum hydrocarbons as gasoline (TPH-g) by USEPA Test Method 8260B.

EQUIPMENT DECONTAMINATION

All reusable sampling equipment that came into contact with potentially contaminated soil or water was decontaminated. Decontamination occurred prior to and after each use of a piece of equipment. The following decontamination procedure was carried out in sequence:

- Non-phosphate detergent (e.g., Alconox® and tap water solution), using a brush if necessary, or steam cleaning.
- Tap-water rinse.
- De-ionized/distilled water rinse.

Disposable equipment intended for one-time use was not decontaminated, but was packaged for appropriate disposal.

INVESTIGATION-DERIVED WASTE

Investigation-derived waste, including soil cuttings, excess collected or purged groundwater, and rinsate from equipment decontamination, was placed into 55-gallon drums. The drums were clearly labeled as containing "Investigation-derived Waste". Lids and bungholes were securely closed. The drums have been stored at the Crown Chevrolet pending removal by a licensed transporter for appropriate disposal. Samples will be collected at an upcoming date from the drums and analyzed at the laboratory listed above for waste characterization purposes. The specific analytes for waste characterization and the transporter will be determined at a later date.

RESULTS

The data collected during the investigation are summarized in Table 2 and Figure 2, respectively. Copies of the laboratory analytical reports and sample chain-of-custody records are included in Appendix D. Groundwater results have been compared to the applicable Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (SFRWQCB)[1]. These data have also been provided to AMEC for their inclusion into the overall site conceptual model (SCM).

Lithology of Study Area

As mentioned above, the borings were advanced to depths ranging between 20 and 25 feet below the ground surface. As expected, since all samples were collected from within an existing street, asphaltic concrete was present at the ground surface at all boring locations, with aggregate base present immediately beneath. The aggregate base was approximately four inches thick and was and underlain by lean clays with varying amounts of sand, continuing to the full boring depth

[1] SFRWQCB ESLs, 2008: Tables E-1 and F-1a – Groundwater Screening Levels for Residential Land Use where Groundwater is a Potential Drinking Water Source.

(20 to 25 feet below the ground surface). Groundwater was encountered at depths ranging from 17 to 18 feet below the ground surface and stabilized at approximately 13 feet below the ground surface. Boring logs, including the depth to groundwater, are presented in Appendix B.

As presented in Table 2 and on Figure 2, all of the collected groundwater samples exhibited detectable concentrations of TPH-g and PCE. TPH-g concentrations ranged between 73 micrograms per liter (µg/l) (Sample CG-6) and 130 µg/l (Sample CG-4). PCE concentrations ranged between 65 µg/l (Sample CG-6) and 130 µg/l (Sample CG-4). Several of these detections exceeded corresponding ESLs, as presented in Table 2. Additionally, one sample, CG-3, exhibited a detected concentration of trichloroethylene (TCE) of 0.66 µg/l. This detection was confirmed in a corresponding duplicate sample (TCE concentration of 0.59 µg/l). However, neither of these detections exceeded respective ESLs, as presented in Table 2. No other VOCs were detected in the samples above laboratory reporting limits. The laboratory analysis report is presented in its entirety in Appendix D.

CONCLUSIONS AND RECOMMENDATIONS

Although several of the detected target analyte concentrations exceed respective ESLs, in general, the detected target analytes generally concur with the concentrations reported by AMEC at nearby downgradient locations. The samples were collected from the upgradient side of a sanitary sewer present within Golden Gate Drive. The results provide evidence that the confirmed PCE plume emanates from a location to the west of the sampling locations and the Property. Additional work may be considered if more definitive information pertaining to a potential release source is desired. This could be accomplished through additional groundwater sampling performed at locations to the west of Golden Gate Drive.

If you have any questions on any portion of the work plan, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Jeffrey A. Adams, PhD, PE
Associate

Shawn Munger, CHG
Principal

Attachments: Selected References
Figures 1 – 2
Tables 1 – 2
Appendices A – D

SELECTED REFERENCES

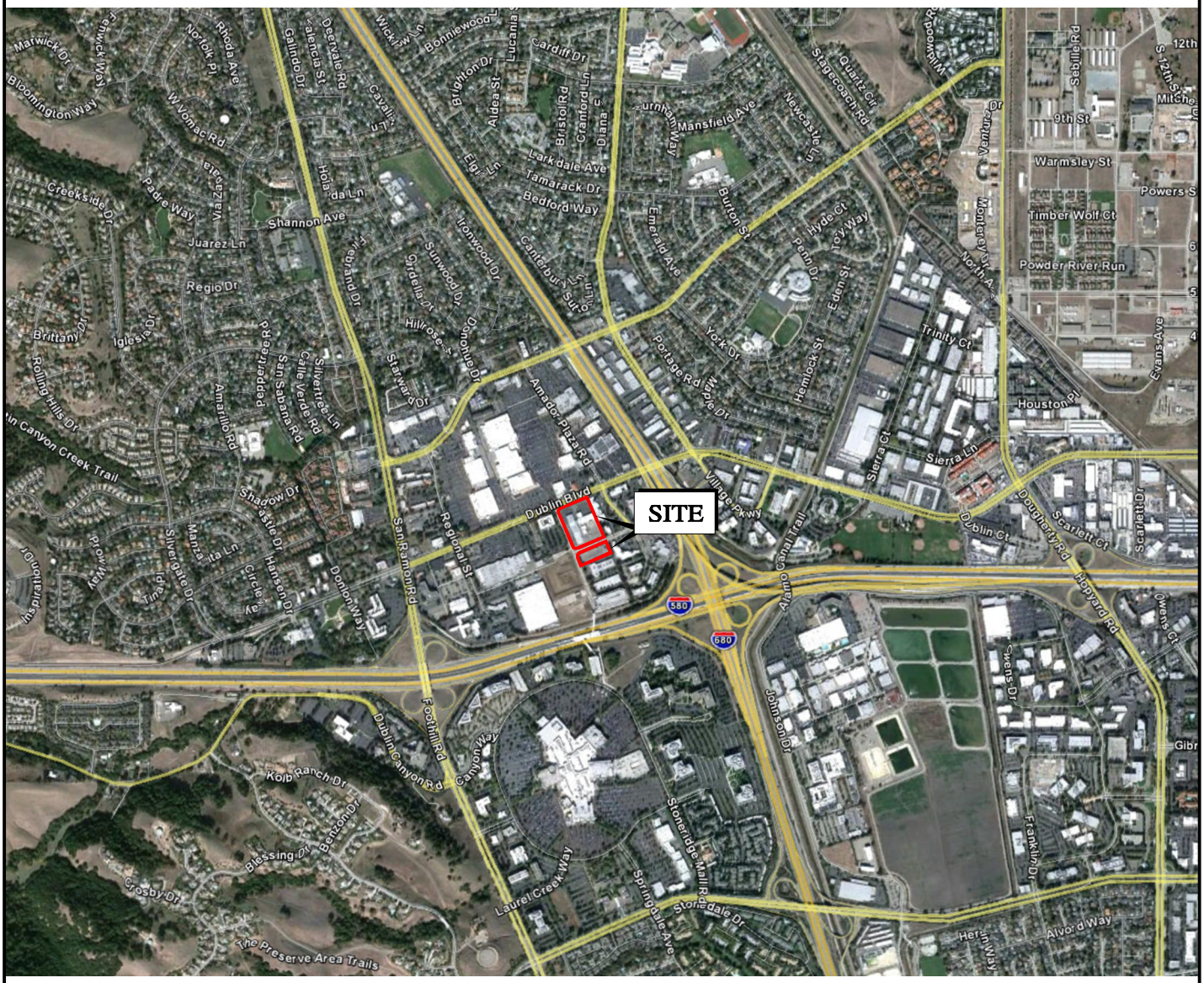
AMEC, Soil, Groundwater, and Soil Vapor Investigation Work Plan, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, August 16, 2012.

AMEC, Soil, Groundwater, and Soil Vapor Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, October 19, 2012.

ENGEO, Groundwater Investigation Workplan, 7544 Dublin Boulevard & 6707 Golden Gate Drive, Dublin, California, October 16, 2012.

FIGURES

Figure 1 – Vicinity Map
Figure 2 – Site Plan



0 FEET 2000
0 METERS 1000

BASE MAP SOURCE: GOOGLE EARTH

ENGEO Expect Excellence

VICINITY MAP

CROWN CHEVROLET CADILLAC ISUZU

DUBLIN, CALIFORNIA

PROJECT NO.: 9432.000.000		FIGURE NO. 1
SCALE: AS SHOWN		
DRAWN BY: SRP	CHECKED BY: SM	

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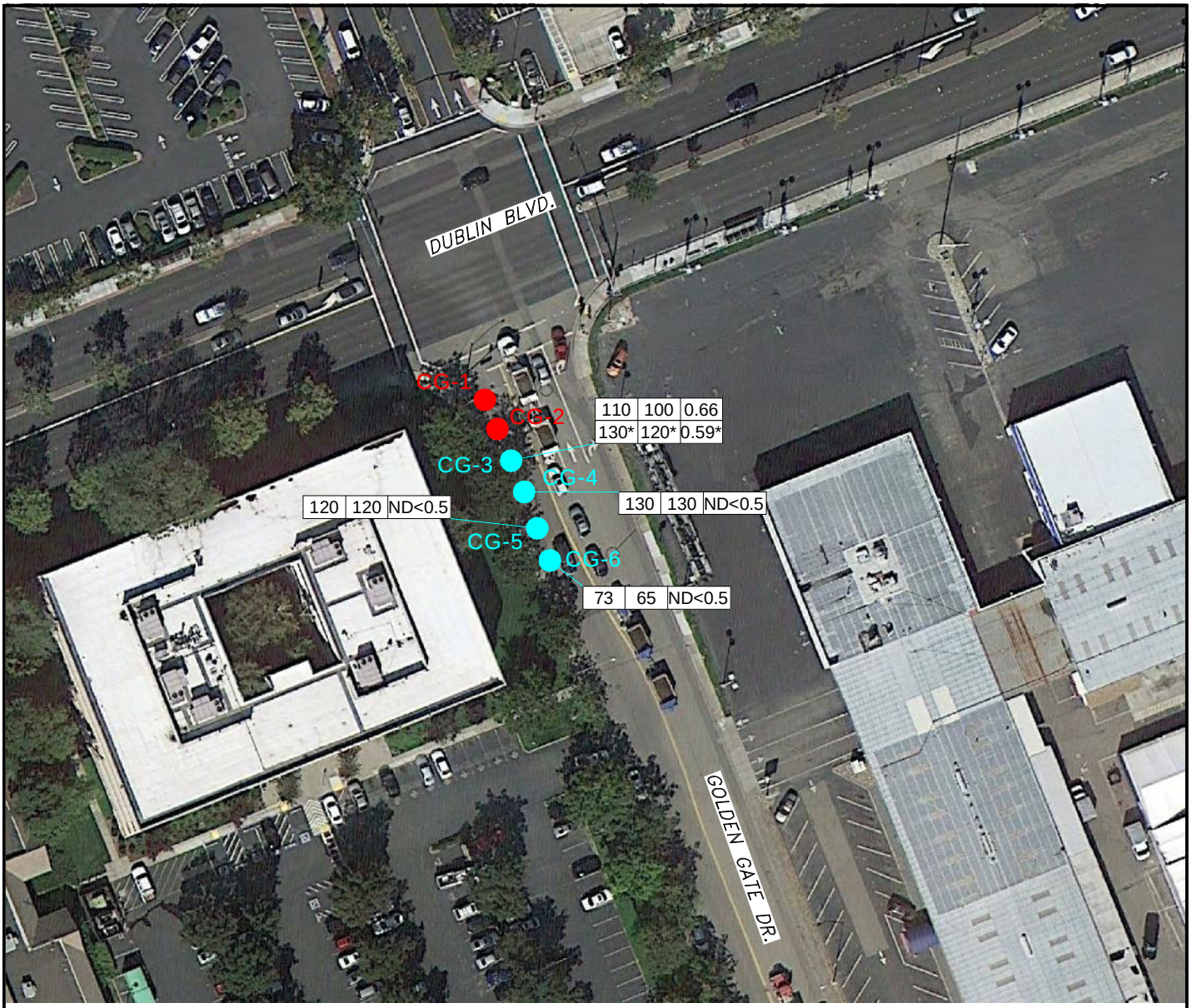
ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

CG-6 — APPROXIMATE LOCATION OF SAMPLE

73 | 65 | ND<0.5

- CONCENTRATIONS OF TCE IN GROUNDWATER (µg/L)
- CONCENTRATIONS OF PCE IN GROUNDWATER (µg/L)
- CONCENTRATIONS OF TPH-G IN GROUNDWATER (µg/L)

(µg/L) — MICROGRAMS PER LITER

* — DUPLICATE SAMPLE

CG-2 — APPROXIMATE LOCATION OF SAMPLE WHERE GROUNDWATER COULD NOT BE COLLECTED

N

0 FEET 80

0 METERS 40

BASE MAP SOURCE: GOOGLE EARTH

ENGEO Expect Excellence

SITE PLAN

CROWN CHEVROLET CADILLAC ISUZU

DUBLIN, CALIFORNIA

PROJECT NO.: 9432.000.000		FIGURE NO. 2
SCALE: AS SHOWN		
DRAWN BY: SRP	CHECKED BY: SM	

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ORIGINAL FIGURE PRINTED IN COLOR

TABLES

TABLE 1
SUMMARY OF DATA GAPS AND PROPOSED INVESTIGATION
CROWN CHEVROLET
DUBLIN, CALIFORNIA

Item	Data Gap	Proposed Investigation	Rationale	Analysis
1	Refine groundwater contours beneath Building A. Collect data relevant to the potential for biodegradation.	Advance two borings to approximately 20 feet bgs within Building A for collection of soil and grab groundwater samples.[1] Soil samples will be collected at two depths in the vadose zone. Soil samples will be collected based on field indications of impacts (PID readings, odor, staining) or, in the absence of field indications of impacts, at 5 and 10 feet bgs.	The highest concentrations of PCE in groundwater were detected at boring NM-B-32, just north of Building A. One boring will be advanced approximately 15 feet from the northern building wall to provide data close to the highest concentration area. A second boring will be advanced approximately halfway between the first boring and existing boring NM-B-31 to provide additional spatial data for contouring purposes. These borings will be part of a transect in the highest concentration area.	*Groundwater:* VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance. *Soil:* VOCs by EPA Method 8260 (soil samples to be collected using field preservation in accordance with EPA Method 5035).
2	Confirm shallow groundwater flow direction. Evaluate VOC concentration trends over time. Collect data relevant to the potential for biodegradation.	Install seven shallow groundwater monitoring wells to approximately 15 to 20 feet bgs in northern portion of site (monitoring well locations may be adjusted pending results of grab groundwater samples). • Three of these wells will be pre-pack wells installed using direct push technology, and a grab groundwater sample will be collected from these borings prior to installation of the well. • Four of these wells will be part of nested, multi-port wells that will also allow collection of chemical and water level data from deeper groundwater (see Item 6, below). • Soil samples will be collected only if there are field indications of impacts (with the exception of the well planned in the highest PCE concentration area, where soil samples will be collected at two depths in the vadose zone based on field indications of impacts (PID readings, odor, staining) or, in the absence of field indications of impacts, at 5 and 10 feet bgs.). • Groundwater monitoring frequency to be determined.	To evaluate groundwater flow direction, a minimum of three wells is needed; the seven proposed wells will provide for a more robust analysis. It is proposed that the wells be spaced throughout the northern portion of the north parcel to evaluate concentration trends while also evaluating groundwater flow direction. • In the west, one well is proposed at the western property boundary at the location where PCE concentrations are highest (the location may be adjusted based on the results of grab groundwater samples to be collected nearby). • A second well is proposed in the area with the highest concentrations of PCE in groundwater, north of Building A. • Three wells are proposed in a north-south line through the middle of the northern parking lot to evaluate spatial variations in PCE and TCE concentrations. • A sixth well is proposed just southwest (downgradient) of the former sump, where VOCs have been detected in groundwater. • A seventh well is proposed at the eastern property boundary; its distance from the northern property boundary is based on where existing data indicate the highest concentrations of PCE are present.	*Groundwater:* VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance. Soil: VOCs by EPA Method 8260 (soil samples to be collected using field preservation in accordance with EPA Method 5035).
3	Evaluate groundwater impacts along western property boundary (presumed upgradient boundary).	Advance a transect of three borings to approximately 20 feet bgs at the western property boundary for collection of soil and grab groundwater samples (one will be converted to a monitoring well; see Item 2, above). Soil samples will be collected at two depths in the vadose zone based on field indications of impacts (PID readings, odor, staining) or, in the absence of field indications of impacts, at 5 and 10 feet bgs.	PCE was detected in boring NM-B-34, at the western property boundary. A transect of three additional borings is proposed at an approximately 15-foot spacing to the south to provide more data regarding PCE at the upgradient property boundary. Data from these borings may be used to modify the location of one of the monitoring wells.	*Groundwater:* VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance. *Soil:* VOCs by EPA Method 8260 (soil samples to be collected using field preservation in accordance with EPA Method 5035).
4	Evaluate deeper lithology at the site.	Advance two direct push borings to approximately 75 feet bgs (one downgradient of the highest concentration area and one upgradient). Soil samples will be collected only if there are field indications of impacts. Soil lithology will be logged.	One boring is proposed adjacent to the location of the westernmost nested well, and one is proposed between the two nested wells in the central portion of the northern parking lot (see Item 6, below). No borings are proposed in the highest concentration area, as a precaution to avoid potential cross-contamination.	None

TABLE 1
SUMMARY OF DATA GAPS AND PROPOSED INVESTIGATION
CROWN CHEVROLET
DUBLIN, CALIFORNIA

Item	Data Gap	Proposed Investigation	Rationale	Analysis
5	Evaluate the possible presence of impacts to deeper groundwater. Evaluate deeper groundwater concentration trends over time. Obtain data regarding the vertical groundwater gradient. Obtain more lithological data below 20 feet bgs.	Install four continuous multichannel tubing (CMT) groundwater monitoring wells (aka multi-port wells) to approximately 65 feet bgs in the northern parking lot with ports at three depths (monitoring well locations may be adjusted pending results of shallow grab groundwater samples; we will discuss any potential changes with ACEH before proceeding). Groundwater monitoring frequency to be determined. Soil samples will be collected only if there are field indications of impacts. Soil lithology will be logged. However, information regarding the moisture content of soil may not be reliable using sonic drilling technology (two borings will be logged using direct push technology; see Item 4, above).	One well is proposed at the western (upgradient) property boundary to confirm that there are no deeper groundwater impacts from upgradient. Two wells are proposed near the center of the northern parking lot to evaluate potential impacts in an area where deeper impacts, if any, would most likely to be found. One well is proposed at the eastern (downgradient) property boundary to confirm that there are no impacts extending off-site. Port depths will be chosen based on the locations of saturated soils (as logged in direct push borings; see Item 4, above), but are expected at approximately 15, 45, and 60 feet bgs.	*Groundwater:* VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
6	Evaluate possible off-site migration of impacted soil vapor in the downgradient direction (east). Evaluate concentration trends over time.	Install 4 temporary nested soil vapor probes at approximately 4 and 8 feet bgs along the eastern property boundary. Based on the results of the sampling, two sets of nested probes will be converted to vapor monitoring wells to allow for evaluation of VOC concentration trends over time.	Available data indicate that PCE and TCE are present in soil vapor in the eastern portion of the northern parking lot. Samples are proposed on approximately 50-foot intervals along the eastern property boundary to provide a transect of concentrations through the vapor plume. The depths of 4 and 8 feet bgs are chosen to provide data closest to the source (i.e., groundwater) while avoiding saturated soil, and also provide shallower data to help evaluate potential attenuation within the soil column. Two sets of nested vapor probes will be converted into vapor monitoring wells (by installing well boxes at ground surface); the locations of the permanent wells will be chosen based on the results of samples from the temporary probes.	*Soil vapor*: VOCs by EPA Method TO-15.
7	Evaluate potential for off-site migration of impacted groundwater in the downgradient direction (east).	Advance two borings to approximately 20 feet bgs in the parking lot of the property east of the Crown site for collection of grab groundwater samples.	Two borings are proposed off-site, on the property east of the Crown site, just east of the building in the expected area of highest potential VOC concentrations.	*Groundwater:* VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
8	Evaluate VOC concentrations just north of the highest concentration area.	Advance two borings to approximately 20 feet bgs north of Building A for collection of soil and grab groundwater samples. Soil samples will be collected at two depths in the vadose zone. Soil samples will be collected based on field indications of impacts (PID readings, odor, staining) or, in the absence of field indications of impacts, at 5 and 10 feet bgs.	The highest concentrations of PCE in groundwater were detected at boring NM-B-32, just north of Building A. The nearest available data to the north are approximately 75 feet away. One of the borings will be advanced approximately 20 feet north of NM-B-32 to provide data close to the highest concentration area. A second boring will be advanced approximately halfway between the first boring and former boring NM-B-33 to provide additional spatial data for contouring purposes. These borings will be part of a transect in the highest concentration area.	*Groundwater:* VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance. *Soil:* VOCs by EPA Method 8260 (soil samples to be collected using field preservation in accordance with EPA Method 5035).
9	Evaluate VOC concentrations in soil vapor in the south parcel of the site.	Install four temporary soil vapor probes at approximately 5 feet bgs around boring SV-25, where PCE was detected in soil vapor at a low concentration.	PCE was detected in soil vapor sample SV-25 in the southern parcel, although was not detected in groundwater in that area. Three probes will be installed approximately 30 feet from of boring SV-25 to attempt to delineate the extent of impacts. A fourth probe is proposed west of the original sample, close to the property boundary and the location of mapped utility lines, which may be a potential conduit, to evaluate potential impacts from the west.	*Soil vapor*: VOCs by EPA Method TO-15.
10	Obtain additional information regarding subsurface structures and utilities to further evaluate migration pathways and sources.	Ground penetrating radar (GPR) and other utility locating methodologies will be used, as appropriate, to further evaluate the presence of unknown utilities and structures at the site.	Utilities have been identified at the site that include an on-site sewer lateral and drain line, and shallow water, electric, and gas lines. Given the current understanding of the distribution of PCE in groundwater at the site, it is possible that other subsurface utilities, and specifically sewer laterals, exist that may act as a source or migration pathway for distribution of VOCs in the subsurface.	NA

TABLE 1
SUMMARY OF DATA GAPS AND PROPOSED INVESTIGATION
CROWN CHEVROLET
DUBLIN, CALIFORNIA

Item	Data Gap	Proposed Investigation	Rationale	Analysis
11	Perform a formal well survey to identify water-producing wells.	A formal well survey will be performed to identify water-producing, monitoring, and cathodic protection wells. Data will be obtained regarding nearby, permitted wells from the California Department of Water Resources and Zone 7 Water Agency (Item 11 on Table 2).	If groundwater downgradient of the site is being used for supply purposes, it is possible that VOCs related to the site could be impacting groundwater.	NA
12	Perform a formal well survey to identify water-producing wells.	Advance up to six borings to approximately 15 to 20 feet bgs in the west portion of Golden Gate Drive for collection of grab groundwater samples. Soil samples will be collected based on field indications of impacts (PID readings, odor, staining).	To further assess potnetial upgradient sources of chlorinated solvent plume.	*Groundwater:* VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance. *Soil:* VOCs by EPA Method 8260 (soil samples to be collected using field preservation in accordance with EPA Method 5035).

Notes
1. Borings for soil/grab groundwater collection may be terminated at 15 feet bgs if groundwater is encountered and grab groundwater sample collection is possible at that depth. Soil lithology will be logged at all borings.

Abbreviations
bgs = below ground surface
EPA = U.S. Environmental Protection Agency
PCE = tetrachloroethene
TPHg = total petroleum hydrocarbons quantified as gasoline
VOCs = volatile organic compounds

TABLE 2
SUMMARY OF LABORATORY RESULTS

GROUNDWATER SAMPLING					
SAMPLE	SAMPLE DATE	TPH-GASOLINE µg/L	TETRACHLOROETHENE µg/L	TRICHLOROETHENE µg/L	OTHER VOCs µg/L
	ESL (Table E-1)	-----	120	530	N/A
	ESL (Table F-1A)	100	5	5	N/A
CG-3	10/26/2012	110	100	0.66	ND
DUP-1 (COLLECTED AT CG-3)	10/26/2012	130	120	0.59	ND
CG-4	10/26/2012	130	130	ND<0.5	ND
CG-5	10/26/2012	120	120	ND<0.5	ND
CG-6	10/26/2012	73	65	ND<0.5	ND
TB-1	10/26/2012	ND<50	ND<0.5	ND<0.5	ND

APPENDIX A

Zone 7 Water Agency Permit
City of Dublin Encroachment Permit

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Intersection of Dublin Blvd and Golden Gate Drive in Pleasanton, Former Crown Chevy dealership

Coordinates Source Google Earth ft. Accuracy____ ft.
LAT: 37.7037 ft. LONG: -121.9294 ft.
APN N/A, Public ROW

CLIENT
Name Keith Fichtner, The Kingsmill Group
Address 2068 Kingsmill Terrace Phone 925-833-8765
City Dublin Zip 94568

APPLICANT
Name Connie Ing/ Jeff Adams, Engeo Inc.
Email cing@engeo.com Fax 888 299 2698
Address 2010 Crow Canyon Place Ste 250 Phone 925 325 2551
City San Ramon Zip 94583

TYPE OF PROJECT:

Well Construction	__	Geotechnical Investigation	__
Well Destruction	__	Contamination Investigation	__
Cathodic Protection	__	Other Groundwater Sampling	X

PROPOSED WELL USE:

Domestic	__	Irrigation	__
Municipal	__	Remediation	__
Industrial	__	Groundwater Monitoring	__
Dewatering	__	Other	__

DRILLING METHOD:

Mud Rotary	__	Air Rotary	__
Cable Tool	__	Direct Push	X
Hollow Stem Auger	__	Other	__

DRILLING COMPANY Vironex
1641 Challenge DR., Concord 94520
DRILLER'S LICENSE NO. 705927

WELL SPECIFICATIONS:
Drill Hole Diameter ____ in. Maximum
Casing Diameter ____ in. Depth ____ ft.
Surface Seal Depth ____ ft. Number ____

SOIL BORINGS:
Number of Borings 6 Maximum
Hole Diameter 2" in. Depth 20' ft.

ESTIMATED STARTING DATE 10/19/12
ESTIMATED COMPLETION DATE 10/19/12

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE ____ Date 10/5/12

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 2012106
WELL NUMBER ____
APN 941-1500-015-24

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

A. GENERAL
(1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
(3.) Permit is void if project not begun within 90 days of approval date.
(4.) Notify Zone 7 at least 24 hours before the start of work.

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

Approved Wyman Hong Date 10/17/12
Wyman Hong

Revised: January 4, 2010

APN: 941-1500-015-24 PERMIT 2012106

Figure 1. Site Plan of Proposed Groundwater Sampling Boring Locations, GW-1 through GW-6

ENGEO Inc., 2010 Crow Canyon Place, Ste. 250, San Ramon, CA

1229602-1 0032 10/22/2012 002 24
Permit Real Time 004534 $202.00

CITY OF DUBLIN
Public Works

Permit No.: **PWEN-2012-00142**

Application Date: **10/22/2012**

Issue Date: **10/22/2012**

Permit Type: **PW ENCROACHMENT PERMIT**

Inspection Requests Require 24 Hour Notice
BLD (925) 833-6620 FIRE (925) 833-6606 PUBLIC WORKS (925) 833-6630

Site Address:	0 GOLDEN GATE DR AND DUBLIN BLVD DUBLIN CA 94568	**Parcel / APN:**	
Owner:	CITY OF DUBLIN - PUBLIC WORKS	**Phone:**	(925) 833-6630
Address:	100 CIVIC PLZ DUBLIN CA 94568-2658	**Fax:**	(925) 829-9248
Contractor:	ENGEO INCORPORATED	**Phone:**	(925) 866-9000
Address:	2010 CROW CANYON PL 250 SAN RAMON, CA 94583	**Fax:** **Lic. Exp. Date:**	(888) 279-2698 09/30/2013
Contact:	URI ELIAHU	**Business Lic#:** **Phone:**	BL-107700 (925) 866-9000
Description:	Drill 6 geoprobe hydropunch borings for soil and groundwater sampling, max 20' in depth.		

SUPPLEMENTAL INFORMATION:

PERMIT FEE	10
MISC WORK HOURS	1.5
PW INSPECTOR	ROEHL- (925)766-1152

FEES:

ENCROACHMENT FEE	10.00	ADDITIONAL ENCROACHMENT FEE	192.00

TOTAL FEES: **202.00**

I hereby have read and agree to the City of Dublin provisions and conditions outlined in this permit:

Signature of Permittee

for City Engineer

This permit may be revoked at any time at the option of the Director of Public Works, If permittee fails to comply with or violate any City Ordinance, City Standard, safety regulations or any condition of the issuance of the permit.

Permit No.: **PWEN-2012-001**

CONDITIONS

1. Permittee shall provide and keep a current certificate of Public Liability and Workers Compensation Insurance which names the City of Dublin and its employees and its agents as additional insured.
2. Worksites left in an unsafe condition will be secured by the City Maintenance Department and the cost will be charged to the permittee.
3. Permittee shall remove all U.S.A markings upon completion of the project.
4. All traffic control shall meet current City of Dublin and Caltrans standards and needs approval prior to start of the project.
5. Permittee shall contact Public Works Inspector for all required inspections (i.e. traffic control, backfill, concrete form, etc.)
6. Prosecution of Work: All work authorized by the permit shall be performed in a workman like, diligent, and expeditious manner, and must be complete to the satisfaction of the City Engineer.
7. Liability and Damage: The permittee shall be responsible for all liability imposed by law for personal injury or damage which may arise out of the work permitted and done by permittee under this permit, or which arise out of failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Dublin, its officers and employees, and save them harmless in every way from all action by law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit.
8. The permittee shall begin work as authorized under this permit within 90 days from the start of issuance, unless a different date is stated in the permit. If the work is not begun within 90 days of the time stated in the permit, the permit shall become void. The permit shall be valid for a term of one year from the date of issuance, or as otherwise stated on the permit unless discontinued by the use or removal of the encroachment for which the permit was issued. (City of Dublin Municipal Code Chapter 7.04)
9. This permit is issued only for that portion of work in the City of Dublin right-of-way.
10. The permittee shall notify Underground Service Alert (U.S.A.) at 800/227-2600 prior to excavation. All underground contractors must have U.S.A. inquiry identification number.
11. Permittee is hereby cautioned that unless otherwise noted herein, traffic signal detector loops, wiring, etc., and irrigation facilities shall not be disturbed. Request marking from City of Dublin Public Works Department at 925/833-6630.
12. All excavations shall conform to the requirements of the State of California Division of Industrial Safety.
13. Permittee shall furnish all safeguards for pedestrians and post warning signs in advance of work area for vehicular traffic and shall clear the roadway of any obstructions or debris at the end of each work day. All safety devised shall conform to the latest edition of the State of California "Manual of Warning Signs, Lights, and Devices for Use in Performance.
14. No public road under the jurisdiction of the City of Dublin shall be closed to travel by the general public without special permission of the City Engineer in writing. No lane closures will be allowed between 6:00 a.m. and 9:00 a.m. or between 3:30 p.m. and 6:30 p.m. At other times, at least one lance of traffic shall be kept open to the general public.
15. The pavement shall be sawed 12" outside the edges of the trench excavation in order to leave a smooth contour of the pavement surface. Cutting with air tools or other devices leaving jagged edges shall not be permitted.
16. No more than 300 linear feet of continuous excavation shall be opened at one time.
    a. Excavate only that length of trench which can be backfilled the same day.
    b. Except for bedding or shading requirements by utilities Class II Aggregate Base is the only acceptable backfill material.
17. Backfill shall be placed in accordance with the current "State of California Department of Transportation Standard Specification." The structural section of the upper _____ inches of the trench backfill within the paved areas shall be _____ inches A.C. on _____ inches A.B. on _____ inches A.S.B.
18. Metal plates of sufficient thickness for legal load traffic or temporary paving 1-1/2" minimum thickness shall be placed at the end of each work day. Sidewalk construction areas shall be left in a safe condition.
19. Material excavated from within the City road right-of-way under this permit shall be removed from within the right-of-way and disposed of in a legal manner.
20. The right-of-way shall be left clean and orderly to the satisfaction of the City Engineer or his representative. The permittee shall give particular attention to maintaining the project in a dust-free condition while performing the various items of work and during non-working periods, including weekends.
21. All work shall be done in accordance with the provisions of the Clean Water Act, which protects the storm drain system. No dirt, rock debris, concrete or other materials or fluids will be allowed to enter the storm drain system during the course of work on this permit.
22. Final asphalt concrete surfacing shall be placed within 5 days of completion of each 300 lineal feet of excavation. If the edges of the trench have raveled prior to final surfacing, the edges shall be resawn.
23. Line and grade shall be left to the satisfaction of the City Engineer. All work shall conform to the current "State of California Department of Transportation Standard Specifications" and City requirements, and the City Inspector shall be notified at 925/833-6630 24 hours prior to pouring concrete.
    a. Line and grade shall conform to grade of existing curb.
    b. Line and grade shall conform to adjacent sidewalk.
    c. Line and grade shall conform to plans prepared by _____ attached hereto and made a part hereof.
    d. No concrete shall be poured until forms have been inspected and approved.
    e. Where concrete is to be removed, the edges are to be sawn at the nearest joint or score mark.
24. Where concrete is poured in a planter striping, score lines, construction joints, expansion joints, shall be continued across entire sidewalk area. Where curb, gutter, and sidewalk are pursed monolithically, the "back edge" of the curb shall be scored.
25. The permittee shall notify the proper utilities or persons that the location of an existing utility pole, fire hydrant, tree or other encroachment at the side or within the traveled way is such that relocation is necessary for proper execution of the work and/or safety of the general public. Said relocation shall be made at no expense to the City of Dublin. In the event such encroachment is not removed, the permittee will be permitted to construct a blockout with doweled bars in a location and in a manner satisfactory to the inspector. Upon completion of the relocation of each encroachment, permittee shall complete construction of curb, gutter, and/or sidewalk within 90 days.
26. No culverts or storm drains are to be cut or disturbed. Direction of flow and capacity of existing surface water drainage facilities shall no be materially changed.
27. Access to public and private properties adjacent to the public road is which work is authorized shall not be denied by reason of

work. Special measures shall be taken to ensure passage of emergency vehicles over and at the side of work at all times.
. In the event that any future improvement of the road right-of-way necessitates the relocation of the encroachment for which this permit is issued, the permittee shall relocate same at his sole expense.
29. Priority shall be given to operations preformed under contract let by the City of Dublin for certain work at this location. Coordination shall be effected through said Contractor and the Project Representative for the City.
30. Any existing facilities damaged or removed in the course of the work shall be replaced in kind or better, including ground and pavement surface, signs, striping, markers, curb, gutter, survey monuments, trees, and other vegetation, etc., to the satisfaction of the owner of said facility.
31. The cash bond placed for this work will be held for six (6) months after the final inspection; however, in the event the permittee does not give the City the notice required and the work is performed without inspection, the cash bond will be held for one year after the final inspection.

PERMITTEE SHALL NOTIFY CITY INSPECTOR AT 925/833-6630 WITHIN 3 DAYS AFTER WORK IS COMPLETE.

FAILURE TO COMPLY WITH THESE PROVISIONS WILL RESULT IN THE CITY'S TAKING WHATEVER MEASURES ARE NECESSARY TO CONFORM TO SAID PROVISIONS AND BILLING THE PERMITTEE FOR ALL EXPENSES INCURRED.

CITY OF DUBLIN
PUBLIC WORKS DEPARTMENT
100 Civic Plaza
Dublin, California 94568
(925) 833-6630

PERMIT NO._____

ENCROACHMENT PERMIT

PERMIT TO DO WORK IN ACCORDANCE WITH CITY OF DUBLIN MUNICIPAL CODE CHAPTER 7.04 AND ANY SPECIAL REQUIREMENTS SHOWN OR LISTED HEREIN.

Applicant/Permittee:	**Staff use only:**	
Name: Connie Ing ENGEO Inc	Permit Fee:	$
Address: 2010 Crow Canyon Pl, Ste 250 San Ramon CA 94583	Plancheck Fee:	$
	Resurfacing Surcharge:	$
	Inspection Fees:	$
		$
		$
Telephone: 925 395 2551	**Total Fees:**	$
	Cash Bond:	$
	Surety No.:	$
	Total Paid:	$
	Receipt No.:	

PLEASE READ THIS PERMIT CAREFULLY. KEEP IT AT THE WORK SITE. TO ARRANGE FOR INSPECTION, PHONE 925-833-6630 AT LEAST 48 HOURS *BEFORE YOU START WORK.*

JOB LOCATION: Golden Gate Drive & Dublin Blvd.

DESCRIPTION OF WORK: (Attach 3 copies of plans. Attach additional pages if needed.)

6 geoprobe hydropunch borings for soil + groundwater sampling, max 20' in depth

Length of Excavation N/A **l.f.** **Width** N/A **l.f.** **Depth** 20 **ft.**

ATTENTION IS DIRECTED TO THE GENERAL PROVISIONS PRINTED ON THE REVERSE SIDE OF THIS PERMIT AND TO THE FOLLOWING SPECIAL REQUIREMENTS:

1. **Permittee shall provide and keep a current certificate of Public Liability and Workers Compensation Insurance which names the City of Dublin and its employees and agents as additional insured.**
2. **Worksites left in an unsafe condition will be secured by the City Maintenance Department and the cost will be charge to the permittee.**
3. **Permittee shall remove all U.S.A. markings upon completion of the project.**
4. **All traffic control shall meet current City of Dublin and Caltras standards and needs approval prior to start of the project.**
5. **Permittee shall contact Public Works Inspector for all required inspections.(i.e. traffic control, backfill, concrete form, etc.)**

Prosecution of Work. All work authorized by the permit shall be performed in a workman like, diligent, and expeditious manner, and must be complete to the satisfaction of the City Engineer.

Liability and Damages: The permittee shall be responsible for all liability imposed by law for personal injury or property damage which may arise out of the work permitted and done by permittee under this permit, or which may arise out of failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Dublin, its officers and employees, and save them harmless in every way from all action by law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit..

I hereby have read and agree to the City of Dublin General provisions and conditions outlined in this permit

Signature of Permittee: _____ **City Engineer**

	Total Paid:	$
	Receipt No.:	

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Signature of Permittee:

By: _____

Date: 10/22/12

City Engineer

By: _____

Date of Issue: _____

Inspection Record (Note date, type of inspection, and comments.)

Completion Date: _____ Inspector: _____

This permit may be revoked at any time at the option of the Director of Public Works, If permittee fails to comply with or violates any City Ordinance, City Standard, safety regulations or any condition of the issuance of the permit

CITY OF DUBLIN GENERAL PROVISIONS

1. The permittee shall begin work as authorized under this permit within 90 days from the start of issuance, unless a different date is stated in the permit. If the work is not begun within 90 days of the time stated in the permit, the permit shall become void. The permit shall be valid for a term of one year from the date of issuance, or as otherwise stated on the permit unless discontinued by the use or removal of the encroachment for which the permit was issued. (City of Dublin Municipal Code Chapter 7.04)
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24. The cash bond placed for this work will be held for six (6) months after the final inspection; however, in the event the permittee does not give the City the notice required and the work is performed without inspection, the cash bond will be held for one year after the final inspection.

PERMITTEE SHALL NOTIFY CITY INSPECTOR AT 833-6630 WITHIN 3 DAYS AFTER WORK IS COMPLETED.

FAILURE TO COMPLY WITH THESE PROVISIONS WILL RESULT IN THE CITY'S TAKING WHATEVER MEASURES ARE NECESSARY TO CONFORM TO SAID PROVISIONS AND BILLING THE PERMITTEE FOR ALL EXPENSES INCURRED.

APPENDIX B

Boring Logs

KEY TO BORING LOGS

MAJOR TYPES			DESCRIPTION
COARSE-GRAINED SOILS MORE THAN HALF OF MAT'L LARGER THAN #200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LESS THAN 5% FINES	GW - Well graded gravels or gravel-sand mixtures GP - Poorly graded gravels or gravel-sand mixtures
		GRAVELS WITH OVER 12 % FINES	GM - Silty gravels, gravel-sand and silt mixtures GC - Clayey gravels, gravel-sand and clay mixtures
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 5% FINES	SW - Well graded sands, or gravelly sand mixtures SP - Poorly graded sands or gravelly sand mixtures
		SANDS WITH OVER 12 % FINES	SM - Silty sand, sand-silt mixtures SC - Clayey sand, sand-clay mixtures
FINE-GRAINED SOILS MORE THAN HALF OF MAT'L SMALLER THAN #200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50 % OR LESS		ML - Inorganic silt with low to medium plasticity CL - Inorganic clay with low to medium plasticity OL - Low plasticity organic silts and clays
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 %		MH - Elastic silt with high plasticity CH - Fat clay with high plasticity OH - Highly plastic organic silts and clays
	HIGHLY ORGANIC SOILS		PT - Peat and other highly organic soils

For fine-grained soils with 15 to 29% retained on the #200 sieve, the words "with sand" or "with gravel" (whichever is predominant) are added to the group name.

For fine-grained soil with >30% retained on the #200 sieve, the words "sandy" or "gravelly" (whichever is predominant) are added to the group name.

GRAIN SIZES

U.S. STANDARD SERIES SIEVE SIZE					CLEAR SQUARE SIEVE OPENINGS			
200	40	10	4	3/4 "	3"	12"		
SILTS AND CLAYS	SAND			GRAVEL			COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE			

RELATIVE DENSITY

SANDS AND GRAVELS	BLOWS/FOOT (S.P.T.)
VERY LOOSE	0-4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	OVER 50

CONSISTENCY

SILTS AND CLAYS	STRENGTH*
VERY SOFT	0-1/4
SOFT	1/4-1/2
MEDIUM STIFF	1/2-1
STIFF	1-2
VERY STIFF	2-4
HARD	OVER 4

SAMPLER SYMBOLS

- Modified California (3" O.D.) sampler
- California (2.5" O.D.) sampler
- S.P.T. - Split spoon sampler
- Shelby Tube
- Continuous Core
- Bag Samples
- Grab Samples
- NR No Recovery

MOISTURE CONDITION

DRY	Dusty, dry to touch
MOIST	Damp but no visible water
WET	Visible freewater

LINE TYPES

- ———— Solid - Layer Break
- – – – – – Dashed - Gradational or approximate layer break

GROUND-WATER SYMBOLS

- Groundwater level during drilling
- Stabilized groundwater level

(S.P.T.) Number of blows of 140 lb. hammer falling 30" to drive a 2-inch O.D. (1-3/8 inch I.D.) sampler

* Unconfined compressive strength in tons/sq. ft., asterisk on log means determined by pocket penetrometer

ENGEO INCORPORATED

LOG OF BORING CG-1

ENGEO INCORPORATED

Environmental Assessment
Crown Chevy Golden Gate
Dublin, California
9432.000.000

DATE DRILLED: 10/26/2012
HOLE DEPTH: Approx. 20 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV ():

LOGGED / REVIEWED BY: S. Johns / JA
DRILLING CONTRACTOR: Vironex
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (inches)	PID (ppm)	REMARKS
			Asphalt and Aggregate Base					
			SILTY CLAY (CL), yellowish brown, moist, some fine-grained sand					Stiff material to approximately 1.5 feet.
	1							
5							0	
	2							
							0	
10	3							
			Grades to little fine-grained sand					
	4							
							0	
15								
	5		Grades to some fine-grained sand		▽		0	
			Grades to dark brown, trace fine-grained sand					
	6						0	
20			Bottom of boring at approximately 20 feet below ground surface. Groundwater encountered during drilling at approximately 17 feet below ground surface.					

LOG - ENVIRONMENTAL + PROBE GINT BORING LOGS 10-26-12.GPJ ENGEO INC.GDT 1/3/13

LOG OF BORING CG-2

ENGEO INCORPORATED

Environmental Assessment
Crown Chevy Golden Gate
Dublin, California
9432.000.000

DATE DRILLED: 10/26/2012
HOLE DEPTH: Approx. 20 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV ():

LOGGED / REVIEWED BY: S. Johns / JA
DRILLING CONTRACTOR: Vironex
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (inches)	PID (ppm)	REMARKS
			Asphalt and Aggregate Base					
			SILTY CLAY (CL), yellowish brown, moist, some fine- to medium-grained sand					Stiff material to approximately 1.5 feet.
	1							
5							0	
	2		Intermittent rock fragments to approximately 10 feet					
10	3						0	
			Grades to trace fine-grained sand					
	4							
							0	
15			Grades to little fine-grained sand					
	5							
							0	
					▽			
			Grades to dark brown, trace fine-grained sand					
20	6							
			Bottom of boring at approximately 20 feet below ground surface. Groundwater encountered during drilling at approximately 18 feet below ground surface.					

LOG - ENVIRONMENTAL + PROBE GINT BORING LOGS 10-26-12.GPJ ENGEO INC.GDT 1/3/13

LOG OF BORING CG-3

ENGEO INCORPORATED

Environmental Assessment
Crown Chevy Golden Gate
Dublin, California
9432.000.000

DATE DRILLED: 10/26/2012
HOLE DEPTH: Approx. 20 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV ():

LOGGED / REVIEWED BY: S. Johns / JA
DRILLING CONTRACTOR: Vironex
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (inches)	PID (ppm)	REMARKS
			Asphalt and Aggregate Base					
			SILTY CLAY (CL), yellowish brown, moist, some fine-grained sand					
	1						0	
5								
	2		Grades to with fine-grained sand					
			Grades to little fine-grained sand					
							0	
10	3							
			Grades to trace fine-grained sand					
	4							
							0	
15								
	5				▽		0	
	6						0	
20			Bottom of boring at approximately 20 feet below ground surface. Groundwater encountered during drilling at approximately 17 feet below ground surface.					

LOG - ENVIRONMENTAL + PROBE GINT BORING LOGS 10-26-12.GPJ ENGEO INC.GDT 1/3/13

LOG OF BORING CG-4

ENGEO INCORPORATED

Environmental Assessment
Crown Chevy Golden Gate
Dublin, California
9432.000.000

DATE DRILLED: 10/26/2012
HOLE DEPTH: Approx. 25 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV ():

LOGGED / REVIEWED BY: S. Johns / JA
DRILLING CONTRACTOR: Vironex
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (inches)	PID (ppm)	REMARKS
			Asphalt and Aggregate Base					
			SILTY CLAY (CL), yellowish brown, moist, some fine-grained sand					
	1						0.1	
5								
	2		Intermittent trace rock fragments					
			Grades to with fine-grained sand					
			Grades to trace fine-grained sand				0.1	
10	3							
	4						0.1	
15								
	5		Grades to with fine-grained sand		▽		0	
			Grades to trace fine-grained sand					
	6						0	
20								
	7							
25			Bottom of boring at approximately 25 feet below ground surface. Groundwater encountered during drilling at approximately 17 feet below ground surface.					

LOG - ENVIRONMENTAL + PROBE GINT BORING LOGS 10-26-12.GPJ ENGEO INC.GDT 1/3/13

LOG OF BORING CG-5

ENGEO INCORPORATED

Environmental Assessment
Crown Chevy Golden Gate
Dublin, California
9432.000.000

DATE DRILLED: 10/26/2012
HOLE DEPTH: Approx. 20 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV ():

LOGGED / REVIEWED BY: S. Johns / JA
DRILLING CONTRACTOR: Vironex
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (inches)	PID (ppm)	REMARKS
			Asphalt and Aggregate Base					
			SILTY CLAY (CL), yellowish brown, moist, some fine-grained sand					
	1						0	
5								
	2							
10	3						0	
			Grades to trace fine-grained sand					
	4		Grades to some fine-grained sand					
15							0	
	5				▽		0	
			Grades to trace fine-grained sand, dark brown					
20	6							
			Bottom of boring at approximately 20 feet below ground surface. Groundwater encountered during drilling at approximately 17 feet below ground surface.					

LOG OF BORING CG-6

ENGEO INCORPORATED

Environmental Assessment
Crown Chevy Golden Gate
Dublin, California
9432.000.000

DATE DRILLED: 10/26/2012
HOLE DEPTH: Approx. 20 ft.
HOLE DIAMETER: 2.0 in.
SURF ELEV ():

LOGGED / REVIEWED BY: S. Johns / JA
DRILLING CONTRACTOR: Vironex
DRILLING METHOD: Geoprobe
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Recovery (inches)	PID (ppm)	REMARKS
			Asphalt and Aggregate Base					
			SILTY CLAY (CL), yellowish brown, moist, some fine-grained sand					
	1							
5							0	
	2		Grades to with fine-grained sand					
10	3						0	
			Intermittent rock fragments from approximately 12 to 16 feet below ground surface					
	4							
			Grades to some fine-grained sand					
15							0	
	5						0	
			Grades to dark brown, trace fine-grained sand				0	
20	6							
			Bottom of boring at approximately 20 feet below ground surface. Groundwater encountered during drilling at approximately 18 feet below ground surface.					

APPENDIX C

Field Sampling Records

GROUNDWATER FIELD SAMPLING LOG

ENGEO INCORPORATED

Project:	Crown Chevrolet	**Well ID**	**CG-3**
Project No.	9432.000.000		
Location:	Dublin		
Technician:	Scott Johns		
Activity:	[X] Grab Sample		

WELL SECURITY

Date: 10/26/2012

Well Box Set in Concrete?	NA	**Comments**
Box Cover Equipped With Bolts and Gasket?	NA	
Well Casing Equipped With Well Seal and Lock?	NA	

GROUNDWATER DETAILS

Date: 10/26/2012

Well Type: [X] Grab Sample [ ] Extraction Well with Pump [ ] Other

Well Diameter	2-inch	**Free Product Measurement**	
DTW (fbtoc)	13.30	(Enter measurements for wells with free product history)	
BOC (fbtoc)	19.80	Enter "0.0" if no measurable free product →	**WCV Factors**
WC (f)	6.50	DTFP (fbtoc) _____	2" = 0.17
WCV (gal)	1.11	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol)	**3.3**	FPT (ft)	6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT

Date: 10/26/2012

Purging:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	**Comments**
Sampling:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	[ ] Other _____
Decon:	Was purge equipment decontaminated before and after this use?		[X] Yes	[ ] No
	Decon Product: [X] TSP/Alconox	Decon Rinse:		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)

Date: 10/26/2012

Drums Onsite Arrival		Drums All Labeled?	Yes		
Drums Used This Event	1	Drums Leaking?	No		Gallons
Total Drums Onsite Now	1	Purge Water Processed Through GWTS?		Yes	No

PHYSICAL PARAMETERS

Date: 10/26/2012

Time	Volume Purged (Gal)	Temp (C degrees)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mv)	Comments
11:05	0	20.1	1715	10.2	7.07	174	
11:08	0.5	20.3	1261	6.7	7.05	225	
11:11	1	20.8	1257	5.5	7.07	290	
11:14	1.5	20.4	1256	5.8	7.03	410	

LABORATORY ANALYSIS

Number/Type Containers		3	VOA's	0	125-mL Ambers	0	Plastic
Preservative:	HCL						
Analysis:	VOCs + TPHg						
Laboratory/TAT:	Test America/Standard TAT						

DTW = Depth to Water

BOC = Bottom of Well Casing

DTFP = Depth to Free Product

FPT = Free Product Thickness

fbtoc = feet below top of casing

WC = Water Column Height

WCV = Water Column Volume (gallons) = WC X WCV Factor

GROUNDWATER FIELD SAMPLING LOG

ENGEO INCORPORATED

Project:	Crown Chevrolet	**Well ID**	**CG-4**
Project No.	9432.000.000		
Location:	Dublin		
Technician:	Scott Johns		
Activity:	[X] Grab Sample		

WELL SECURITY

Date: 10/26/2012

Well Box Set in Concrete?	NA	**Comments**
Box Cover Equipped With Bolts and Gasket?	NA	
Well Casing Equipped With Well Seal and Lock?	NA	

GROUNDWATER DETAILS

Date: 10/26/2012

Well Type: [X] Grab Sample [ ] Extraction Well with Pump [ ] Other

Well Diameter	2-inch	**Free Product Measurement**	
DTW (fbtoc)	13.45	(Enter measurements for wells with free product history)	
BOC (fbtoc)	24.85	Enter "0.0" if no measurable free product →	**WCV Factors**
WC (f)	11.40	DTFP (fbtoc) _____	2" = 0.17
WCV (gal)	1.94	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol)	**5.8**	FPT (ft)	6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT

Date: 10/26/2012

Purging:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	**Comments**
Sampling:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	[ ] Other _____
Decon:	Was purge equipment decontaminated before and after this use?		[X] Yes	[ ] No
	Decon Product: [X] TSP/Alconox	Decon Rinse:		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)

Date: 10/26/2012

Drums Onsite Arrival		Drums All Labeled?	Yes		
Drums Used This Event	1	Drums Leaking?	No		Gallons
Total Drums Onsite Now	1	Purge Water Processed Through GWTS?		Yes	No

PHYSICAL PARAMETERS

Date: 10/26/2012

Time	Volume Purged (Gal)	Temp (C degrees)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mv)	Comments
12:20	0	22.0	1286	10.3	7.24	476	
12:23	0.5	20.7	1245	8.2	7.25	461	
12:27	1	20.2	1242	5.6	7.04	457	
12:31	1.5	20.4	1240	6.3	7.10	455	
12:36	2	20.3	1238	5.8	7.14	454	

LABORATORY ANALYSIS

Number/Type Containers		3	VOA's	0	125-mL Ambers	0	Plastic
Preservative:	HCL						
Analysis:	VOCs + TPHg						
Laboratory/TAT:	Test America/Standard TAT						

DTW = Depth to Water

BOC = Bottom of Well Casing

DTFP = Depth to Free Product

FPT = Free Product Thickness

fbtoc = feet below top of casing

WC = Water Column Height

WCV = Water Column Volume (gallons) = WC X WCV Factor

GROUNDWATER FIELD SAMPLING LOG

ENGEO INCORPORATED

Project:	Crown Chevrolet	**Well ID**	**CG-5**
Project No.	9432.000.000		
Location:	Dublin		
Technician:	Scott Johns		
Activity:	[X] Grab Sample		

WELL SECURITY

Date: 10/26/2012

Well Box Set in Concrete?	NA	**Comments**
Box Cover Equipped With Bolts and Gasket?	NA	
Well Casing Equipped With Well Seal and Lock?	NA	

GROUNDWATER DETAILS

Date: 10/26/2012

Well Type: [X] Grab Sample [ ] Extraction Well with Pump [ ] Other

Well Diameter	2-inch	**Free Product Measurement**	
DTW (fbtoc)	13.25	(Enter measurements for wells with free product history)	
BOC (fbtoc)	19.80	Enter "0.0" if no measurable free product →	**WCV Factors**
WC (f)	6.55	DTFP (fbtoc) _____	2" = 0.17
WCV (gal)	1.11	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol)	**3.3**	FPT (ft)	6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT

Date: 10/26/2012

Purging:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	**Comments**
Sampling:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	[ ] Other _____
Decon:	Was purge equipment decontaminated before and after this use?		[X] Yes	[ ] No
	Decon Product: [X] TSP/Alconox	Decon Rinse:		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only)

Date: 10/26/2012

Drums Onsite Arrival		Drums All Labeled?	Yes		
Drums Used This Event	1	Drums Leaking?	No		Gallons
Total Drums Onsite Now	1	Purge Water Processed Through GWTS?		Yes	No

PHYSICAL PARAMETERS

Date: 10/26/2012

Time	Volume Purged (Gal)	Temp (C degrees)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mv)	Comments
13:00	0	20.4	1210	7.8	7.09	617	
13:03	0.5	20.8	1212	5.4	6.99	622	
13:07	1	20.7	1209	5.1	6.96	624	

LABORATORY ANALYSIS

Number/Type Containers	3	VOA's	0	125-mL Ambers	0	Plastic
Preservative:	HCL					
Analysis:	VOCs + TPHg					
Laboratory/TAT:	Test America/Standard TAT					

DTW = Depth to Water

BOC = Bottom of Well Casing

DTFP = Depth to Free Product

FPT = Free Product Thickness

fbtoc = feet below top of casing

WC = Water Column Height

WCV = Water Column Volume (gallons) = WC X WCV Factor

GROUNDWATER FIELD SAMPLING LOG

ENGEO INCORPORATED

Project:	Crown Chevrolet	**Well ID**	**CG-6**
Project No.	9432.000.000		
Location:	Dublin		
Technician:	Scott Johns		
Activity:	[X] Grab Sample		

WELL SECURITY — Date: 10/26/2012

Well Box Set in Concrete?	NA	**Comments**
Box Cover Equipped With Bolts and Gasket?	NA	
Well Casing Equipped With Well Seal and Lock?	NA	

GROUNDWATER DETAILS — Date: 10/26/2012

Well Type: [X] Grab Sample [ ] Extraction Well with Pump [ ] Other

Well Diameter	2-inch	**Free Product Measurement**	
DTW (fbtoc)	13.20	(Enter measurements for wells with free product history)	
BOC (fbtoc)	19.85	Enter "0.0" if no measurable free product →	**WCV Factors**
WC (f)	6.65	DTFP (fbtoc) _____	2" = 0.17
WCV (gal)	1.13	DTW (fbtoc) _____	4" = 0.66
3 X WCV (Purge Vol)	**3.4**	FPT (ft)	6" = 1.50

PURGING, SAMPLING AND DECON EQUIPMENT — Date: 10/26/2012

Purging:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	**Comments**
Sampling:	[X] Disposable Bailer	[ ] 12-V Pump	[ ] Subm. Pump	[ ] Other _____
Decon:	Was purge equipment decontaminated before and after this use?	[X] Yes	[ ] No	
	Decon Product: [X] TSP/Alconox	Decon Rinse:		

PURGE WATER STORAGE/DISPOSAL (For Last Well Sampled Only) — Date: 10/26/2012

Drums Onsite Arrival		Drums All Labeled?	Yes		
Drums Used This Event	1	Drums Leaking?	No		Gallons
Total Drums Onsite Now	1	Purge Water Processed Through GWTS?		Yes	No

PHYSICAL PARAMETERS — Date: 10/26/2012

Time	Volume Purged (Gal)	Temp (C degrees)	Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mv)	Comments
16:08	0	20.0	1178	7.9	7.25	430	
16:11	0.5	19.6	1180	5.5	6.78	508	
16:15	1	19.5	1177	5.2	5.60	581	
16:19	1.5	19.5	1178	5.1	5.51	638	

LABORATORY ANALYSIS

Number/Type Containers		3	VOA's	0	125-mL Ambers	0	Plastic
Preservative:	HCL						
Analysis:	VOCs + TPHg						
Laboratory/TAT:	Test America/Standard TAT						

DTW = Depth to Water

BOC = Bottom of Well Casing

DTFP = Depth to Free Product

FPT = Free Product Thickness

fbtoc = feet below top of casing

WC = Water Column Height

WCV = Water Column Volume (gallons) = WC X WCV Factor

APPENDIX D

TESTAMERICA LABORATORIES INC.

Laboratory Analysis Report

9432.000.000
January 4, 2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 720-45615-1
Client Project/Site: Crown Chevrolet

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

Attn: Mr. Jeff Adams

Authorized for release by:
11/5/2012 2:06:26 PM

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

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
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)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Job ID: 720-45615-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-45615-1

Comments
No additional comments.

Receipt
The samples were received on 10/26/2012 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch #124534 exceeded control limits for the following analytes: VA. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch #124534 recovered above the upper control limit for VA. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 720-124534/2).

Method(s) 8260B: The Gasoline Range Organics (GRO) concentration reported for the following sample 45615-1,2,3,4 and 5 is due to the presence of discrete peaks. <<PCE>>

No other analytical or quality issues were noted.

Detection Summary

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

Client Sample ID: CG-3 — Lab Sample ID: 720-45615-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	100		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Trichloroethene	0.66		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	110		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: CG-4 — Lab Sample ID: 720-45615-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	130		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: CG-5 — Lab Sample ID: 720-45615-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	120		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	120		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: CG-6 — Lab Sample ID: 720-45615-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	65		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	73		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 720-45615-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	120		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Trichloroethene	0.59		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	130		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: TB-1 — Lab Sample ID: 720-45615-6

No Detections

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

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

Client Sample ID: CG-3
Date Collected: 10/26/12 11:25
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/03/12 00:19	1
Acetone	ND		50		ug/L			11/03/12 00:19	1
Benzene	ND		0.50		ug/L			11/03/12 00:19	1
Dichlorobromomethane	ND		0.50		ug/L			11/03/12 00:19	1
Bromobenzene	ND		1.0		ug/L			11/03/12 00:19	1
Chlorobromomethane	ND		1.0		ug/L			11/03/12 00:19	1
Bromoform	ND		1.0		ug/L			11/03/12 00:19	1
Bromomethane	ND		1.0		ug/L			11/03/12 00:19	1
2-Butanone (MEK)	ND		50		ug/L			11/03/12 00:19	1
n-Butylbenzene	ND		1.0		ug/L			11/03/12 00:19	1
sec-Butylbenzene	ND		1.0		ug/L			11/03/12 00:19	1
tert-Butylbenzene	ND		1.0		ug/L			11/03/12 00:19	1
Carbon disulfide	ND		5.0		ug/L			11/03/12 00:19	1
Carbon tetrachloride	ND		0.50		ug/L			11/03/12 00:19	1
Chlorobenzene	ND		0.50		ug/L			11/03/12 00:19	1
Chloroethane	ND		1.0		ug/L			11/03/12 00:19	1
Chloroform	ND		1.0		ug/L			11/03/12 00:19	1
Chloromethane	ND		1.0		ug/L			11/03/12 00:19	1
2-Chlorotoluene	ND		0.50		ug/L			11/03/12 00:19	1
4-Chlorotoluene	ND		0.50		ug/L			11/03/12 00:19	1
Chlorodibromomethane	ND		0.50		ug/L			11/03/12 00:19	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/03/12 00:19	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/03/12 00:19	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/03/12 00:19	1
1,3-Dichloropropane	ND		1.0		ug/L			11/03/12 00:19	1
1,1-Dichloropropene	ND		0.50		ug/L			11/03/12 00:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/03/12 00:19	1
Ethylene Dibromide	ND		0.50		ug/L			11/03/12 00:19	1
Dibromomethane	ND		0.50		ug/L			11/03/12 00:19	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/03/12 00:19	1
1,1-Dichloroethane	ND		0.50		ug/L			11/03/12 00:19	1
1,2-Dichloroethane	ND		0.50		ug/L			11/03/12 00:19	1
1,1-Dichloroethene	ND		0.50		ug/L			11/03/12 00:19	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 00:19	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 00:19	1
1,2-Dichloropropane	ND		0.50		ug/L			11/03/12 00:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 00:19	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 00:19	1
Ethylbenzene	ND		0.50		ug/L			11/03/12 00:19	1
Hexachlorobutadiene	ND		1.0		ug/L			11/03/12 00:19	1
2-Hexanone	ND		50		ug/L			11/03/12 00:19	1
Isopropylbenzene	ND		0.50		ug/L			11/03/12 00:19	1
4-Isopropyltoluene	ND		1.0		ug/L			11/03/12 00:19	1
Methylene Chloride	ND		5.0		ug/L			11/03/12 00:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/03/12 00:19	1
Naphthalene	ND		1.0		ug/L			11/03/12 00:19	1
N-Propylbenzene	ND		1.0		ug/L			11/03/12 00:19	1
Styrene	ND		0.50		ug/L			11/03/12 00:19	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 00:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 00:19	1
Tetrachloroethene	**100**		0.50		ug/L			11/03/12 00:19	1

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

Client Sample ID: CG-3
Date Collected: 10/26/12 11:25
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50		ug/L			11/03/12 00:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/03/12 00:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/03/12 00:19	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/03/12 00:19	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/03/12 00:19	1
Trichloroethene	**0.66**		0.50		ug/L			11/03/12 00:19	1
Trichlorofluoromethane	ND		1.0		ug/L			11/03/12 00:19	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/03/12 00:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/03/12 00:19	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/03/12 00:19	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/03/12 00:19	1
Vinyl acetate	ND	*	10		ug/L			11/03/12 00:19	1
Vinyl chloride	ND		0.50		ug/L			11/03/12 00:19	1
Xylenes, Total	ND		1.0		ug/L			11/03/12 00:19	1
2,2-Dichloropropane	ND		0.50		ug/L			11/03/12 00:19	1
Gasoline Range Organics (GRO) -C5-C12	**110**		50		ug/L			11/03/12 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*11/03/12 00:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 138*		*11/03/12 00:19*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/03/12 00:19*	*1*

Client Sample ID: CG-4
Date Collected: 10/26/12 12:45
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/03/12 00:48	1
Acetone	ND		50		ug/L			11/03/12 00:48	1
Benzene	ND		0.50		ug/L			11/03/12 00:48	1
Dichlorobromomethane	ND		0.50		ug/L			11/03/12 00:48	1
Bromobenzene	ND		1.0		ug/L			11/03/12 00:48	1
Chlorobromomethane	ND		1.0		ug/L			11/03/12 00:48	1
Bromoform	ND		1.0		ug/L			11/03/12 00:48	1
Bromomethane	ND		1.0		ug/L			11/03/12 00:48	1
2-Butanone (MEK)	ND		50		ug/L			11/03/12 00:48	1
n-Butylbenzene	ND		1.0		ug/L			11/03/12 00:48	1
sec-Butylbenzene	ND		1.0		ug/L			11/03/12 00:48	1
tert-Butylbenzene	ND		1.0		ug/L			11/03/12 00:48	1
Carbon disulfide	ND		5.0		ug/L			11/03/12 00:48	1
Carbon tetrachloride	ND		0.50		ug/L			11/03/12 00:48	1
Chlorobenzene	ND		0.50		ug/L			11/03/12 00:48	1
Chloroethane	ND		1.0		ug/L			11/03/12 00:48	1
Chloroform	ND		1.0		ug/L			11/03/12 00:48	1
Chloromethane	ND		1.0		ug/L			11/03/12 00:48	1
2-Chlorotoluene	ND		0.50		ug/L			11/03/12 00:48	1
4-Chlorotoluene	ND		0.50		ug/L			11/03/12 00:48	1
Chlorodibromomethane	ND		0.50		ug/L			11/03/12 00:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/03/12 00:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/03/12 00:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/03/12 00:48	1
1,3-Dichloropropane	ND		1.0		ug/L			11/03/12 00:48	1

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

Client Sample ID: CG-4
Date Collected: 10/26/12 12:45
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		0.50		ug/L			11/03/12 00:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/03/12 00:48	1
Ethylene Dibromide	ND		0.50		ug/L			11/03/12 00:48	1
Dibromomethane	ND		0.50		ug/L			11/03/12 00:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/03/12 00:48	1
1,1-Dichloroethane	ND		0.50		ug/L			11/03/12 00:48	1
1,2-Dichloroethane	ND		0.50		ug/L			11/03/12 00:48	1
1,1-Dichloroethene	ND		0.50		ug/L			11/03/12 00:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 00:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 00:48	1
1,2-Dichloropropane	ND		0.50		ug/L			11/03/12 00:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 00:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 00:48	1
Ethylbenzene	ND		0.50		ug/L			11/03/12 00:48	1
Hexachlorobutadiene	ND		1.0		ug/L			11/03/12 00:48	1
2-Hexanone	ND		50		ug/L			11/03/12 00:48	1
Isopropylbenzene	ND		0.50		ug/L			11/03/12 00:48	1
4-Isopropyltoluene	ND		1.0		ug/L			11/03/12 00:48	1
Methylene Chloride	ND		5.0		ug/L			11/03/12 00:48	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/03/12 00:48	1
Naphthalene	ND		1.0		ug/L			11/03/12 00:48	1
N-Propylbenzene	ND		1.0		ug/L			11/03/12 00:48	1
Styrene	ND		0.50		ug/L			11/03/12 00:48	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 00:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 00:48	1
Tetrachloroethene	**130**		0.50		ug/L			11/03/12 00:48	1
Toluene	ND		0.50		ug/L			11/03/12 00:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/03/12 00:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/03/12 00:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/03/12 00:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/03/12 00:48	1
Trichloroethene	ND		0.50		ug/L			11/03/12 00:48	1
Trichlorofluoromethane	ND		1.0		ug/L			11/03/12 00:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/03/12 00:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/03/12 00:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/03/12 00:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/03/12 00:48	1
Vinyl acetate	ND	*	10		ug/L			11/03/12 00:48	1
Vinyl chloride	ND		0.50		ug/L			11/03/12 00:48	1
Xylenes, Total	ND		1.0		ug/L			11/03/12 00:48	1
2,2-Dichloropropane	ND		0.50		ug/L			11/03/12 00:48	1
Gasoline Range Organics (GRO) -C5-C12	**130**		50		ug/L			11/03/12 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*11/03/12 00:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 138*		*11/03/12 00:48*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/03/12 00:48*	*1*

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

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

Client Sample ID: CG-5
Date Collected: 10/26/12 13:15
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/03/12 01:17	1
Acetone	ND		50		ug/L			11/03/12 01:17	1
Benzene	ND		0.50		ug/L			11/03/12 01:17	1
Dichlorobromomethane	ND		0.50		ug/L			11/03/12 01:17	1
Bromobenzene	ND		1.0		ug/L			11/03/12 01:17	1
Chlorobromomethane	ND		1.0		ug/L			11/03/12 01:17	1
Bromoform	ND		1.0		ug/L			11/03/12 01:17	1
Bromomethane	ND		1.0		ug/L			11/03/12 01:17	1
2-Butanone (MEK)	ND		50		ug/L			11/03/12 01:17	1
n-Butylbenzene	ND		1.0		ug/L			11/03/12 01:17	1
sec-Butylbenzene	ND		1.0		ug/L			11/03/12 01:17	1
tert-Butylbenzene	ND		1.0		ug/L			11/03/12 01:17	1
Carbon disulfide	ND		5.0		ug/L			11/03/12 01:17	1
Carbon tetrachloride	ND		0.50		ug/L			11/03/12 01:17	1
Chlorobenzene	ND		0.50		ug/L			11/03/12 01:17	1
Chloroethane	ND		1.0		ug/L			11/03/12 01:17	1
Chloroform	ND		1.0		ug/L			11/03/12 01:17	1
Chloromethane	ND		1.0		ug/L			11/03/12 01:17	1
2-Chlorotoluene	ND		0.50		ug/L			11/03/12 01:17	1
4-Chlorotoluene	ND		0.50		ug/L			11/03/12 01:17	1
Chlorodibromomethane	ND		0.50		ug/L			11/03/12 01:17	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/03/12 01:17	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/03/12 01:17	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/03/12 01:17	1
1,3-Dichloropropane	ND		1.0		ug/L			11/03/12 01:17	1
1,1-Dichloropropene	ND		0.50		ug/L			11/03/12 01:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/03/12 01:17	1
Ethylene Dibromide	ND		0.50		ug/L			11/03/12 01:17	1
Dibromomethane	ND		0.50		ug/L			11/03/12 01:17	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/03/12 01:17	1
1,1-Dichloroethane	ND		0.50		ug/L			11/03/12 01:17	1
1,2-Dichloroethane	ND		0.50		ug/L			11/03/12 01:17	1
1,1-Dichloroethene	ND		0.50		ug/L			11/03/12 01:17	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 01:17	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 01:17	1
1,2-Dichloropropane	ND		0.50		ug/L			11/03/12 01:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 01:17	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 01:17	1
Ethylbenzene	ND		0.50		ug/L			11/03/12 01:17	1
Hexachlorobutadiene	ND		1.0		ug/L			11/03/12 01:17	1
2-Hexanone	ND		50		ug/L			11/03/12 01:17	1
Isopropylbenzene	ND		0.50		ug/L			11/03/12 01:17	1
4-Isopropyltoluene	ND		1.0		ug/L			11/03/12 01:17	1
Methylene Chloride	ND		5.0		ug/L			11/03/12 01:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/03/12 01:17	1
Naphthalene	ND		1.0		ug/L			11/03/12 01:17	1
N-Propylbenzene	ND		1.0		ug/L			11/03/12 01:17	1
Styrene	ND		0.50		ug/L			11/03/12 01:17	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 01:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 01:17	1
Tetrachloroethene	**120**		0.50		ug/L			11/03/12 01:17	1

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

Client Sample ID: CG-5
Date Collected: 10/26/12 13:15
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50		ug/L			11/03/12 01:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/03/12 01:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/03/12 01:17	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/03/12 01:17	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/03/12 01:17	1
Trichloroethene	ND		0.50		ug/L			11/03/12 01:17	1
Trichlorofluoromethane	ND		1.0		ug/L			11/03/12 01:17	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/03/12 01:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/03/12 01:17	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/03/12 01:17	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/03/12 01:17	1
Vinyl acetate	ND	*	10		ug/L			11/03/12 01:17	1
Vinyl chloride	ND		0.50		ug/L			11/03/12 01:17	1
Xylenes, Total	ND		1.0		ug/L			11/03/12 01:17	1
2,2-Dichloropropane	ND		0.50		ug/L			11/03/12 01:17	1
Gasoline Range Organics (GRO) -C5-C12	**120**		50		ug/L			11/03/12 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*11/03/12 01:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*		*11/03/12 01:17*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*11/03/12 01:17*	*1*

Client Sample ID: CG-6
Date Collected: 10/26/12 16:30
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/03/12 01:46	1
Acetone	ND		50		ug/L			11/03/12 01:46	1
Benzene	ND		0.50		ug/L			11/03/12 01:46	1
Dichlorobromomethane	ND		0.50		ug/L			11/03/12 01:46	1
Bromobenzene	ND		1.0		ug/L			11/03/12 01:46	1
Chlorobromomethane	ND		1.0		ug/L			11/03/12 01:46	1
Bromoform	ND		1.0		ug/L			11/03/12 01:46	1
Bromomethane	ND		1.0		ug/L			11/03/12 01:46	1
2-Butanone (MEK)	ND		50		ug/L			11/03/12 01:46	1
n-Butylbenzene	ND		1.0		ug/L			11/03/12 01:46	1
sec-Butylbenzene	ND		1.0		ug/L			11/03/12 01:46	1
tert-Butylbenzene	ND		1.0		ug/L			11/03/12 01:46	1
Carbon disulfide	ND		5.0		ug/L			11/03/12 01:46	1
Carbon tetrachloride	ND		0.50		ug/L			11/03/12 01:46	1
Chlorobenzene	ND		0.50		ug/L			11/03/12 01:46	1
Chloroethane	ND		1.0		ug/L			11/03/12 01:46	1
Chloroform	ND		1.0		ug/L			11/03/12 01:46	1
Chloromethane	ND		1.0		ug/L			11/03/12 01:46	1
2-Chlorotoluene	ND		0.50		ug/L			11/03/12 01:46	1
4-Chlorotoluene	ND		0.50		ug/L			11/03/12 01:46	1
Chlorodibromomethane	ND		0.50		ug/L			11/03/12 01:46	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/03/12 01:46	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/03/12 01:46	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/03/12 01:46	1
1,3-Dichloropropane	ND		1.0		ug/L			11/03/12 01:46	1

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

Client Sample ID: CG-6
Date Collected: 10/26/12 16:30
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		0.50		ug/L			11/03/12 01:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/03/12 01:46	1
Ethylene Dibromide	ND		0.50		ug/L			11/03/12 01:46	1
Dibromomethane	ND		0.50		ug/L			11/03/12 01:46	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/03/12 01:46	1
1,1-Dichloroethane	ND		0.50		ug/L			11/03/12 01:46	1
1,2-Dichloroethane	ND		0.50		ug/L			11/03/12 01:46	1
1,1-Dichloroethene	ND		0.50		ug/L			11/03/12 01:46	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 01:46	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 01:46	1
1,2-Dichloropropane	ND		0.50		ug/L			11/03/12 01:46	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 01:46	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 01:46	1
Ethylbenzene	ND		0.50		ug/L			11/03/12 01:46	1
Hexachlorobutadiene	ND		1.0		ug/L			11/03/12 01:46	1
2-Hexanone	ND		50		ug/L			11/03/12 01:46	1
Isopropylbenzene	ND		0.50		ug/L			11/03/12 01:46	1
4-Isopropyltoluene	ND		1.0		ug/L			11/03/12 01:46	1
Methylene Chloride	ND		5.0		ug/L			11/03/12 01:46	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/03/12 01:46	1
Naphthalene	ND		1.0		ug/L			11/03/12 01:46	1
N-Propylbenzene	ND		1.0		ug/L			11/03/12 01:46	1
Styrene	ND		0.50		ug/L			11/03/12 01:46	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 01:46	1
Tetrachloroethene	**65**		0.50		ug/L			11/03/12 01:46	1
Toluene	ND		0.50		ug/L			11/03/12 01:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/03/12 01:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/03/12 01:46	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/03/12 01:46	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/03/12 01:46	1
Trichloroethene	ND		0.50		ug/L			11/03/12 01:46	1
Trichlorofluoromethane	ND		1.0		ug/L			11/03/12 01:46	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/03/12 01:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/03/12 01:46	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/03/12 01:46	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/03/12 01:46	1
Vinyl acetate	ND	*	10		ug/L			11/03/12 01:46	1
Vinyl chloride	ND		0.50		ug/L			11/03/12 01:46	1
Xylenes, Total	ND		1.0		ug/L			11/03/12 01:46	1
2,2-Dichloropropane	ND		0.50		ug/L			11/03/12 01:46	1
Gasoline Range Organics (GRO) -C5-C12	**73**		50		ug/L			11/03/12 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*11/03/12 01:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 138*		*11/03/12 01:46*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/03/12 01:46*	*1*

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

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

Client Sample ID: DUP-1
Date Collected: 10/26/12 11:45
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/03/12 02:14	1
Acetone	ND		50		ug/L			11/03/12 02:14	1
Benzene	ND		0.50		ug/L			11/03/12 02:14	1
Dichlorobromomethane	ND		0.50		ug/L			11/03/12 02:14	1
Bromobenzene	ND		1.0		ug/L			11/03/12 02:14	1
Chlorobromomethane	ND		1.0		ug/L			11/03/12 02:14	1
Bromoform	ND		1.0		ug/L			11/03/12 02:14	1
Bromomethane	ND		1.0		ug/L			11/03/12 02:14	1
2-Butanone (MEK)	ND		50		ug/L			11/03/12 02:14	1
n-Butylbenzene	ND		1.0		ug/L			11/03/12 02:14	1
sec-Butylbenzene	ND		1.0		ug/L			11/03/12 02:14	1
tert-Butylbenzene	ND		1.0		ug/L			11/03/12 02:14	1
Carbon disulfide	ND		5.0		ug/L			11/03/12 02:14	1
Carbon tetrachloride	ND		0.50		ug/L			11/03/12 02:14	1
Chlorobenzene	ND		0.50		ug/L			11/03/12 02:14	1
Chloroethane	ND		1.0		ug/L			11/03/12 02:14	1
Chloroform	ND		1.0		ug/L			11/03/12 02:14	1
Chloromethane	ND		1.0		ug/L			11/03/12 02:14	1
2-Chlorotoluene	ND		0.50		ug/L			11/03/12 02:14	1
4-Chlorotoluene	ND		0.50		ug/L			11/03/12 02:14	1
Chlorodibromomethane	ND		0.50		ug/L			11/03/12 02:14	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/03/12 02:14	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/03/12 02:14	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/03/12 02:14	1
1,3-Dichloropropane	ND		1.0		ug/L			11/03/12 02:14	1
1,1-Dichloropropene	ND		0.50		ug/L			11/03/12 02:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/03/12 02:14	1
Ethylene Dibromide	ND		0.50		ug/L			11/03/12 02:14	1
Dibromomethane	ND		0.50		ug/L			11/03/12 02:14	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/03/12 02:14	1
1,1-Dichloroethane	ND		0.50		ug/L			11/03/12 02:14	1
1,2-Dichloroethane	ND		0.50		ug/L			11/03/12 02:14	1
1,1-Dichloroethene	ND		0.50		ug/L			11/03/12 02:14	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 02:14	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/03/12 02:14	1
1,2-Dichloropropane	ND		0.50		ug/L			11/03/12 02:14	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 02:14	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/03/12 02:14	1
Ethylbenzene	ND		0.50		ug/L			11/03/12 02:14	1
Hexachlorobutadiene	ND		1.0		ug/L			11/03/12 02:14	1
2-Hexanone	ND		50		ug/L			11/03/12 02:14	1
Isopropylbenzene	ND		0.50		ug/L			11/03/12 02:14	1
4-Isopropyltoluene	ND		1.0		ug/L			11/03/12 02:14	1
Methylene Chloride	ND		5.0		ug/L			11/03/12 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/03/12 02:14	1
Naphthalene	ND		1.0		ug/L			11/03/12 02:14	1
N-Propylbenzene	ND		1.0		ug/L			11/03/12 02:14	1
Styrene	ND		0.50		ug/L			11/03/12 02:14	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 02:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/03/12 02:14	1
Tetrachloroethene	**120**		0.50		ug/L			11/03/12 02:14	1

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

Client Sample ID: DUP-1
Date Collected: 10/26/12 11:45
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50		ug/L			11/03/12 02:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/03/12 02:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/03/12 02:14	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/03/12 02:14	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/03/12 02:14	1
Trichloroethene	**0.59**		0.50		ug/L			11/03/12 02:14	1
Trichlorofluoromethane	ND		1.0		ug/L			11/03/12 02:14	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/03/12 02:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/03/12 02:14	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/03/12 02:14	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/03/12 02:14	1
Vinyl acetate	ND	*	10		ug/L			11/03/12 02:14	1
Vinyl chloride	ND		0.50		ug/L			11/03/12 02:14	1
Xylenes, Total	ND		1.0		ug/L			11/03/12 02:14	1
2,2-Dichloropropane	ND		0.50		ug/L			11/03/12 02:14	1
Gasoline Range Organics (GRO) -C5-C12	**130**		50		ug/L			11/03/12 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*11/03/12 02:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 138*		*11/03/12 02:14*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*11/03/12 02:14*	*1*

Client Sample ID: TB-1
Date Collected: 10/26/12 08:00
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/02/12 22:24	1
Acetone	ND		50		ug/L			11/02/12 22:24	1
Benzene	ND		0.50		ug/L			11/02/12 22:24	1
Dichlorobromomethane	ND		0.50		ug/L			11/02/12 22:24	1
Bromobenzene	ND		1.0		ug/L			11/02/12 22:24	1
Chlorobromomethane	ND		1.0		ug/L			11/02/12 22:24	1
Bromoform	ND		1.0		ug/L			11/02/12 22:24	1
Bromomethane	ND		1.0		ug/L			11/02/12 22:24	1
2-Butanone (MEK)	ND		50		ug/L			11/02/12 22:24	1
n-Butylbenzene	ND		1.0		ug/L			11/02/12 22:24	1
sec-Butylbenzene	ND		1.0		ug/L			11/02/12 22:24	1
tert-Butylbenzene	ND		1.0		ug/L			11/02/12 22:24	1
Carbon disulfide	ND		5.0		ug/L			11/02/12 22:24	1
Carbon tetrachloride	ND		0.50		ug/L			11/02/12 22:24	1
Chlorobenzene	ND		0.50		ug/L			11/02/12 22:24	1
Chloroethane	ND		1.0		ug/L			11/02/12 22:24	1
Chloroform	ND		1.0		ug/L			11/02/12 22:24	1
Chloromethane	ND		1.0		ug/L			11/02/12 22:24	1
2-Chlorotoluene	ND		0.50		ug/L			11/02/12 22:24	1
4-Chlorotoluene	ND		0.50		ug/L			11/02/12 22:24	1
Chlorodibromomethane	ND		0.50		ug/L			11/02/12 22:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/02/12 22:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/02/12 22:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/02/12 22:24	1
1,3-Dichloropropane	ND		1.0		ug/L			11/02/12 22:24	1

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

Client Sample ID: TB-1
Date Collected: 10/26/12 08:00
Date Received: 10/26/12 18:30

Lab Sample ID: 720-45615-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		0.50		ug/L			11/02/12 22:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/02/12 22:24	1
Ethylene Dibromide	ND		0.50		ug/L			11/02/12 22:24	1
Dibromomethane	ND		0.50		ug/L			11/02/12 22:24	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/02/12 22:24	1
1,1-Dichloroethane	ND		0.50		ug/L			11/02/12 22:24	1
1,2-Dichloroethane	ND		0.50		ug/L			11/02/12 22:24	1
1,1-Dichloroethene	ND		0.50		ug/L			11/02/12 22:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/02/12 22:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/02/12 22:24	1
1,2-Dichloropropane	ND		0.50		ug/L			11/02/12 22:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/02/12 22:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/02/12 22:24	1
Ethylbenzene	ND		0.50		ug/L			11/02/12 22:24	1
Hexachlorobutadiene	ND		1.0		ug/L			11/02/12 22:24	1
2-Hexanone	ND		50		ug/L			11/02/12 22:24	1
Isopropylbenzene	ND		0.50		ug/L			11/02/12 22:24	1
4-Isopropyltoluene	ND		1.0		ug/L			11/02/12 22:24	1
Methylene Chloride	ND		5.0		ug/L			11/02/12 22:24	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/02/12 22:24	1
Naphthalene	ND		1.0		ug/L			11/02/12 22:24	1
N-Propylbenzene	ND		1.0		ug/L			11/02/12 22:24	1
Styrene	ND		0.50		ug/L			11/02/12 22:24	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/02/12 22:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/02/12 22:24	1
Tetrachloroethene	ND		0.50		ug/L			11/02/12 22:24	1
Toluene	ND		0.50		ug/L			11/02/12 22:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/02/12 22:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/02/12 22:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/02/12 22:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/02/12 22:24	1
Trichloroethene	ND		0.50		ug/L			11/02/12 22:24	1
Trichlorofluoromethane	ND		1.0		ug/L			11/02/12 22:24	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/02/12 22:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/02/12 22:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/02/12 22:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/02/12 22:24	1
Vinyl acetate	ND	*	10		ug/L			11/02/12 22:24	1
Vinyl chloride	ND		0.50		ug/L			11/02/12 22:24	1
Xylenes, Total	ND		1.0		ug/L			11/02/12 22:24	1
2,2-Dichloropropane	ND		0.50		ug/L			11/02/12 22:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/02/12 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*11/02/12 22:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 138*		*11/02/12 22:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/02/12 22:24*	*1*

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

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

Lab Sample ID: MB 720-124534/4
Matrix: Water
Analysis Batch: 124534

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/02/12 20:00	1
Acetone	ND		50		ug/L			11/02/12 20:00	1
Benzene	ND		0.50		ug/L			11/02/12 20:00	1
Dichlorobromomethane	ND		0.50		ug/L			11/02/12 20:00	1
Bromobenzene	ND		1.0		ug/L			11/02/12 20:00	1
Chlorobromomethane	ND		1.0		ug/L			11/02/12 20:00	1
Bromoform	ND		1.0		ug/L			11/02/12 20:00	1
Bromomethane	ND		1.0		ug/L			11/02/12 20:00	1
2-Butanone (MEK)	ND		50		ug/L			11/02/12 20:00	1
n-Butylbenzene	ND		1.0		ug/L			11/02/12 20:00	1
sec-Butylbenzene	ND		1.0		ug/L			11/02/12 20:00	1
tert-Butylbenzene	ND		1.0		ug/L			11/02/12 20:00	1
Carbon disulfide	ND		5.0		ug/L			11/02/12 20:00	1
Carbon tetrachloride	ND		0.50		ug/L			11/02/12 20:00	1
Chlorobenzene	ND		0.50		ug/L			11/02/12 20:00	1
Chloroethane	ND		1.0		ug/L			11/02/12 20:00	1
Chloroform	ND		1.0		ug/L			11/02/12 20:00	1
Chloromethane	ND		1.0		ug/L			11/02/12 20:00	1
2-Chlorotoluene	ND		0.50		ug/L			11/02/12 20:00	1
4-Chlorotoluene	ND		0.50		ug/L			11/02/12 20:00	1
Chlorodibromomethane	ND		0.50		ug/L			11/02/12 20:00	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/02/12 20:00	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/02/12 20:00	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/02/12 20:00	1
1,3-Dichloropropane	ND		1.0		ug/L			11/02/12 20:00	1
1,1-Dichloropropene	ND		0.50		ug/L			11/02/12 20:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/02/12 20:00	1
Ethylene Dibromide	ND		0.50		ug/L			11/02/12 20:00	1
Dibromomethane	ND		0.50		ug/L			11/02/12 20:00	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/02/12 20:00	1
1,1-Dichloroethane	ND		0.50		ug/L			11/02/12 20:00	1
1,2-Dichloroethane	ND		0.50		ug/L			11/02/12 20:00	1
1,1-Dichloroethene	ND		0.50		ug/L			11/02/12 20:00	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/02/12 20:00	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/02/12 20:00	1
1,2-Dichloropropane	ND		0.50		ug/L			11/02/12 20:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/02/12 20:00	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/02/12 20:00	1
Ethylbenzene	ND		0.50		ug/L			11/02/12 20:00	1
Hexachlorobutadiene	ND		1.0		ug/L			11/02/12 20:00	1
2-Hexanone	ND		50		ug/L			11/02/12 20:00	1
Isopropylbenzene	ND		0.50		ug/L			11/02/12 20:00	1
4-Isopropyltoluene	ND		1.0		ug/L			11/02/12 20:00	1
Methylene Chloride	ND		5.0		ug/L			11/02/12 20:00	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/02/12 20:00	1
Naphthalene	ND		1.0		ug/L			11/02/12 20:00	1
N-Propylbenzene	ND		1.0		ug/L			11/02/12 20:00	1
Styrene	ND		0.50		ug/L			11/02/12 20:00	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/02/12 20:00	1

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

Lab Sample ID: MB 720-124534/4
Matrix: Water
Analysis Batch: 124534

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/02/12 20:00	1
Tetrachloroethene	ND		0.50		ug/L			11/02/12 20:00	1
Toluene	ND		0.50		ug/L			11/02/12 20:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/02/12 20:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/02/12 20:00	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/02/12 20:00	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/02/12 20:00	1
Trichloroethene	ND		0.50		ug/L			11/02/12 20:00	1
Trichlorofluoromethane	ND		1.0		ug/L			11/02/12 20:00	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/02/12 20:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/02/12 20:00	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/02/12 20:00	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/02/12 20:00	1
Vinyl acetate	ND		10		ug/L			11/02/12 20:00	1
Vinyl chloride	ND		0.50		ug/L			11/02/12 20:00	1
Xylenes, Total	ND		1.0		ug/L			11/02/12 20:00	1
2,2-Dichloropropane	ND		0.50		ug/L			11/02/12 20:00	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/02/12 20:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*11/02/12 20:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 138*		*11/02/12 20:00*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/02/12 20:00*	*1*

Lab Sample ID: LCS 720-124534/5
Matrix: Water
Analysis Batch: 124534

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.6		ug/L		103	62 - 130
Acetone	125	122		ug/L		98	26 - 180
Benzene	25.0	25.5		ug/L		102	79 - 130
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Bromobenzene	25.0	25.5		ug/L		102	70 - 130
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130
Bromoform	25.0	25.3		ug/L		101	68 - 136
Bromomethane	25.0	27.1		ug/L		108	43 - 151
2-Butanone (MEK)	125	121		ug/L		97	54 - 130
n-Butylbenzene	25.0	24.6		ug/L		98	70 - 142
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 134
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 135
Carbon disulfide	25.0	28.2		ug/L		113	58 - 130
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 146
Chlorobenzene	25.0	25.1		ug/L		101	70 - 130
Chloroethane	25.0	27.4		ug/L		110	62 - 138
Chloroform	25.0	25.2		ug/L		101	70 - 130
Chloromethane	25.0	26.4		ug/L		106	52 - 175
2-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
4-Chlorotoluene	25.0	25.1		ug/L		100	70 - 130

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

Lab Sample ID: LCS 720-124534/5
Matrix: Water
Analysis Batch: 124534

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 145
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	70 - 136
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130
Dibromomethane	25.0	24.4		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	19.9		ug/L		79	34 - 132
1,1-Dichloroethane	25.0	25.9		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	25.6		ug/L		102	61 - 132
1,1-Dichloroethene	25.0	21.4		ug/L		85	64 - 128
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	68 - 130
1,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 140
Ethylbenzene	25.0	24.4		ug/L		97	80 - 120
Hexachlorobutadiene	25.0	23.0		ug/L		92	70 - 130
2-Hexanone	125	122		ug/L		98	60 - 164
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130
4-Isopropyltoluene	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	25.7		ug/L		103	70 - 147
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	58 - 130
Naphthalene	25.0	22.9		ug/L		92	70 - 130
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130
Styrene	25.0	23.9		ug/L		96	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130
Tetrachloroethene	25.0	25.6		ug/L		102	70 - 130
Toluene	25.0	24.9		ug/L		99	78 - 120
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		95	70 - 130
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130
Trichloroethene	25.0	24.6		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	25.0		ug/L		100	66 - 132
1,2,3-Trichloropropane	25.0	22.9		ug/L		92	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9		ug/L		96	42 - 162
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 132
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
Vinyl acetate	25.0	54.0	*	ug/L		216	43 - 163
Vinyl chloride	25.0	25.4		ug/L		102	54 - 135
m-Xylene & p-Xylene	50.0	50.2		ug/L		100	70 - 142
o-Xylene	25.0	25.7		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	26.6		ug/L		106	70 - 140

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

Lab Sample ID: LCS 720-124534/5
Matrix: Water
Analysis Batch: 124534

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		75 - 138
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCS 720-124534/7
Matrix: Water
Analysis Batch: 124534

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	530		ug/L		106	62 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		75 - 138
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 720-124534/6
Matrix: Water
Analysis Batch: 124534

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
Methyl tert-butyl ether			25.0	26.2		ug/L		105	62 - 130	2	20
Acetone			125	128		ug/L		102	26 - 180	5	30
Benzene			25.0	25.2		ug/L		101	79 - 130	1	20
Dichlorobromomethane			25.0	27.1		ug/L		108	70 - 130	2	20
Bromobenzene			25.0	25.9		ug/L		104	70 - 130	2	20
Chlorobromomethane			25.0	26.4		ug/L		105	70 - 130	1	20
Bromoform			25.0	26.4		ug/L		106	68 - 136	4	20
Bromomethane			25.0	27.3		ug/L		109	43 - 151	1	20
2-Butanone (MEK)			125	132		ug/L		106	54 - 130	8	20
n-Butylbenzene			25.0	25.0		ug/L		100	70 - 142	1	20
sec-Butylbenzene			25.0	25.2		ug/L		101	70 - 134	0	20
tert-Butylbenzene			25.0	25.4		ug/L		102	70 - 135	2	20
Carbon disulfide			25.0	27.7		ug/L		111	58 - 130	2	20
Carbon tetrachloride			25.0	24.9		ug/L		99	70 - 146	1	20
Chlorobenzene			25.0	25.9		ug/L		104	70 - 130	3	20
Chloroethane			25.0	27.0		ug/L		108	62 - 138	1	20
Chloroform			25.0	25.2		ug/L		101	70 - 130	0	20
Chloromethane			25.0	25.4		ug/L		102	52 - 175	4	20
2-Chlorotoluene			25.0	26.2		ug/L		105	70 - 130	2	20
4-Chlorotoluene			25.0	25.7		ug/L		103	70 - 130	2	20
Chlorodibromomethane			25.0	28.5		ug/L		114	70 - 145	4	20
1,2-Dichlorobenzene			25.0	26.4		ug/L		106	70 - 130	2	20
1,3-Dichlorobenzene			25.0	26.5		ug/L		106	70 - 130	2	20
1,4-Dichlorobenzene			25.0	26.6		ug/L		106	70 - 130	2	20
1,3-Dichloropropane			25.0	26.6		ug/L		107	70 - 130	1	20
1,1-Dichloropropene			25.0	25.1		ug/L		100	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	23.6		ug/L		94	70 - 136	3	20

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

Lab Sample ID: LCSD 720-124534/6
Matrix: Water
Analysis Batch: 124534

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
Ethylene Dibromide			25.0	26.6		ug/L		107	70 - 130	1	20
Dibromomethane			25.0	25.4		ug/L		102	70 - 130	4	20
Dichlorodifluoromethane			25.0	18.4		ug/L		74	34 - 132	8	20
1,1-Dichloroethane			25.0	25.7		ug/L		103	70 - 130	1	20
1,2-Dichloroethane			25.0	25.8		ug/L		103	61 - 132	1	20
1,1-Dichloroethene			25.0	21.6		ug/L		86	64 - 128	1	20
cis-1,2-Dichloroethene			25.0	26.3		ug/L		105	70 - 130	0	20
trans-1,2-Dichloroethene			25.0	25.1		ug/L		100	68 - 130	2	20
1,2-Dichloropropane			25.0	27.2		ug/L		109	70 - 130	4	20
cis-1,3-Dichloropropene			25.0	28.3		ug/L		113	70 - 130	0	20
trans-1,3-Dichloropropene			25.0	27.1		ug/L		108	70 - 140	0	20
Ethylbenzene			25.0	24.8		ug/L		99	80 - 120	2	20
Hexachlorobutadiene			25.0	22.9		ug/L		92	70 - 130	0	20
2-Hexanone			125	131		ug/L		105	60 - 164	7	20
Isopropylbenzene			25.0	25.9		ug/L		104	70 - 130	2	20
4-Isopropyltoluene			25.0	24.6		ug/L		98	70 - 130	1	20
Methylene Chloride			25.0	25.7		ug/L		103	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)			125	134		ug/L		107	58 - 130	4	20
Naphthalene			25.0	24.5		ug/L		98	70 - 130	6	20
N-Propylbenzene			25.0	25.9		ug/L		104	70 - 130	3	20
Styrene			25.0	24.5		ug/L		98	70 - 130	2	20
1,1,1,2-Tetrachloroethane			25.0	25.9		ug/L		104	70 - 130	4	20
1,1,2,2-Tetrachloroethane			25.0	25.6		ug/L		102	70 - 130	2	20
Tetrachloroethene			25.0	25.6		ug/L		102	70 - 130	0	20
Toluene			25.0	25.3		ug/L		101	78 - 120	2	20
1,2,3-Trichlorobenzene			25.0	24.8		ug/L		99	70 - 130	4	20
1,2,4-Trichlorobenzene			25.0	24.7		ug/L		99	70 - 130	4	20
1,1,1-Trichloroethane			25.0	25.1		ug/L		100	70 - 130	1	20
1,1,2-Trichloroethane			25.0	26.7		ug/L		107	70 - 130	4	20
Trichloroethene			25.0	24.8		ug/L		99	70 - 130	1	20
Trichlorofluoromethane			25.0	24.3		ug/L		97	66 - 132	3	20
1,2,3-Trichloropropane			25.0	25.5		ug/L		102	70 - 130	11	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne			25.0	22.9		ug/L		92	42 - 162	4	20
1,2,4-Trimethylbenzene			25.0	25.2		ug/L		101	70 - 132	0	20
1,3,5-Trimethylbenzene			25.0	25.2		ug/L		101	70 - 130	0	20
Vinyl acetate			25.0	54.6	*	ug/L		218	43 - 163	1	20
Vinyl chloride			25.0	25.4		ug/L		102	54 - 135	0	20
m-Xylene & p-Xylene			50.0	51.2		ug/L		102	70 - 142	2	20
o-Xylene			25.0	26.3		ug/L		105	70 - 130	3	20
2,2-Dichloropropane			25.0	26.2		ug/L		105	70 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 138*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: LCSD 720-124534/8
Matrix: Water
Analysis Batch: 124534

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	520		ug/L		104	62 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 138*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Association Summary

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

GC/MS VOA

Analysis Batch: 124534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45615-1	CG-3	Total/NA	Water	8260B/CA_LUFT MS	
720-45615-2	CG-4	Total/NA	Water	8260B/CA_LUFT MS	
720-45615-3	CG-5	Total/NA	Water	8260B/CA_LUFT MS	
720-45615-4	CG-6	Total/NA	Water	8260B/CA_LUFT MS	
720-45615-5	DUP-1	Total/NA	Water	8260B/CA_LUFT MS	
720-45615-6	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-124534/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-124534/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-124534/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-124534/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-124534/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

Client Sample ID: CG-3
Lab Sample ID: 720-45615-1
Date Collected: 10/26/12 11:25
Matrix: Water
Date Received: 10/26/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	124534	11/03/12 00:19	AC	TAL SF

Client Sample ID: CG-4
Lab Sample ID: 720-45615-2
Date Collected: 10/26/12 12:45
Matrix: Water
Date Received: 10/26/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	124534	11/03/12 00:48	AC	TAL SF

Client Sample ID: CG-5
Lab Sample ID: 720-45615-3
Date Collected: 10/26/12 13:15
Matrix: Water
Date Received: 10/26/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	124534	11/03/12 01:17	AC	TAL SF

Client Sample ID: CG-6
Lab Sample ID: 720-45615-4
Date Collected: 10/26/12 16:30
Matrix: Water
Date Received: 10/26/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	124534	11/03/12 01:46	AC	TAL SF

Client Sample ID: DUP-1
Lab Sample ID: 720-45615-5
Date Collected: 10/26/12 11:45
Matrix: Water
Date Received: 10/26/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	124534	11/03/12 02:14	AC	TAL SF

Client Sample ID: TB-1
Lab Sample ID: 720-45615-6
Date Collected: 10/26/12 08:00
Matrix: Water
Date Received: 10/26/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	124534	11/02/12 22:24	AC	TAL SF

Laboratory References:

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

Certification Summary

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	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 Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Engeo, Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-45615-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-45615-1	CG-3	Water	10/26/12 11:25	10/26/12 18:30
720-45615-2	CG-4	Water	10/26/12 12:45	10/26/12 18:30
720-45615-3	CG-5	Water	10/26/12 13:15	10/26/12 18:30
720-45615-4	CG-6	Water	10/26/12 16:30	10/26/12 18:30
720-45615-5	DUP-1	Water	10/26/12 11:45	10/26/12 18:30
720-45615-6	TB-1	Water	10/26/12 08:00	10/26/12 18:30

720.45615

CHAIN OF CUSTODY RECORD

141899

11/5/2012

PROJECT NUMBER: 9432,000,000

PROJECT NAME: Crown Chevrolet Cadillac Isuzu

SAMPLED BY: (SIGNATURE/PRINT) Scott Johns / Scott Johns

PROJECT MANAGER: Jeff Adams

ROUTING: E-MAIL sjohns@engeo.com ; jaadams@engeo.com

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	VOCs + TPHg (8260)	REMARKS / REQUIRED DETECTION LIMITS
CG-3	10/26/12	11:25	Aq	3	VOAs	HCl/ICE	X	
CG-4		12:45					X	
CG-5		13:45					X	
CG-6		16:30					X	
Dup-1		11:45					X	
TB-1		8:00		2			X	

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	10/26/12 18:30	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
DATE/TIME	REMARKS	
10-26-12 1830	• Standard 5 Day TAT • Geotracker Format	

3.6°C

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

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

Login Sample Receipt Checklist

Client: Engeo, Inc.

Job Number: 720-45615-1

Login Number: 45615

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Apostol, Anita

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

January 4, 2013

Subject: Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Fuel Leak Case No. RO0003014
Dublin, California

PERJURY STATEMENT

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

Submitted by Responsible Party:

Marshall Torre

Mr. Marshall Torre
The Kingsmill Group, LLC
4900 Hopyard Road, Suite 100
Pleasanton, CA 94588