TRICORE ENVIRONMENTAL, LLC

June 11, 2015

VIA USPS PRIORITY MAIL
WITH DELIVERY CONFIRMATION

Mr. Eric Kuhlman
Illinois Environmental Protection Agency
Bureau of Land #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

RE: LPC No. 0971855024 – Lake County
Wauconda/Shivam Energy, Inc.
399 West Liberty Street
LUST Incident Nos. 892744 and 903199
Leaking UST Technical File

Dear Mr. Kuhlman:

TriCore Environmental, LLC (TriCore), on behalf of Shivam Energy, Inc., is providing an original and one copy of a Remediation Status Report for the leaking underground storage tank (LUST) incident numbers referenced above. The Remediation Status Report is being provided to the Illinois Environmental Protection Agency (IEPA) as an update on the installation and operation of the dual phase extraction (DPE) remediation system located at the site referenced above.

Completed Activities

DPE Well Installation

On October 15 and 22, 2012, TriCore oversaw the installation of four recovery wells (RW-7 through RW-10) to a maximum depth of 16 feet below land surface (bls). The locations of the recovery wells are illustrated on Figures 1 and 1A. TriCore contracted Earth Solutions, Inc. of St. Charles, Illinois to install the recovery wells. Prior to the installation of the recovery wells, a permit was obtained from the Lake County Health Department for the installation of the wells since the wells are being used as recovery wells.

Soil borings were installed at each recovery well location for the collection of soil samples. The soil borings were drilled and sampled using the following procedures. The soil borings were drilled and sampled to 5 feet bls using a stainless steel hand auger to collect soil samples in 1.0-foot depth intervals. The hand auger was utilized to minimize the risk of damage to subsurface structures and utilities. The reduced risk of striking utility lines increases the safety factor for

drillers and other on-site personnel. The borings were then completed with a track-mounted Geoprobe® drill rig using direct-push technology to advance the borings. Continuous soil samples were collected from 5 feet bls to 15 feet bls. All soil samples were collected within disposable macro-core liners which were placed within a 2.25-inch inside diameter by 5.0-foot long macro-core sampler. To prevent cross contamination between soil borings and sampling intervals, all drilling and sampling equipment was decontaminated prior to each use using a distilled water and Liquinox® solution wash, followed by a distilled water rinse. The soil cuttings generated during the drilling activities were stockpiled on-site for disposal with the soil that was excavated and removed during the remediation trenching and piping installation.

As soil samples were collected, the geology of the subsurface soil was described. Upon retrieval, a portion of each soil sample was immediately divided for field screening and laboratory analysis. Samples designated for field screening were placed in airtight plastic bags, allowed to volatilize and equilibrate, and then screened for the presence of volatile organic vapors using a photoionization detector (PID) equipped with a 10.6 electron volt lamp. The PID was field calibrated using isobutylene gas prior to use. The other portion of each sample was placed into laboratory-provided containers. The containers were then labeled accordingly and packed in a cooler containing ice. From each boring, the soil sample collected above the field interpreted water table exhibiting the highest PID measurement was selected for laboratory analysis. The soil samples selected for laboratory analysis were shipped in the cooler under standard chain-of-custody protocol to Pace Analytical Services, Inc. (Pace) in Green Bay, Wisconsin for the analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) using United States Environmental Protection Agency (USEPA) Method 8021.

Analytical laboratory results revealed the following detected concentrations exceeded the Tier 1 soil remediation objectives (SROs) at the sample locations indicated below.

Indicator Contaminant	Sample Location
Benzene	RW-9
Total Xylenes	RW-8

Analytical laboratory results revealed the following laboratory method detection limit exceeded the Tier 1 SROs at the sample locations indicated below.

Indicator Contaminant	Sample Location
Benzene	RW-8

Analytical laboratory results are summarized in Table 1 and illustrated on Figures 2A and 2B. A copy of the analytical laboratory report and certification is provided in Attachment A.

After soil samples were collected, 4-inch inside diameter recovery wells were installed within the borings. The recovery wells were installed to 16 feet bls with a truck-mounted Acker AD-II drill rig using 10.25-inch outside diameter hollow stem augers. To prevent cross contamination during the installation of the wells, all drilling equipment was decontaminated prior to each use using a distilled water and Liquinox® solution wash, followed by a distilled water rinse. The soil cuttings generated during the well installation activities were stockpiled for disposal with the soil that was excavated and removed during the remediation trenching and piping installation.

Each recovery well was constructed of Schedule 40 polyvinyl chloride (PVC) casing, 0.010 slot Schedule 40 PVC screen, a PVC end cap, and a well plug. Each well was constructed so that the screened portion of each well intersected the field-interpreted groundwater table observed during drilling. For the construction of the recovery wells for the remediation system, the annulus of each well was filled with washed silica sand to the top of the well screen. Bentonite chips were then added to approximately 3 feet bls so that a seal would be created between the screened portion of the well and the remediation system piping trench which was backfilled with sand and gravel. Washed silica sand was added to ground surface. The well manholes were not installed at this time since each well would be exposed to approximately 3 to 4 feet bls when connecting the piping for the remediation system. Recovery well construction diagrams are provided in Attachment B.

Trenching and Piping Installation

On October 3, 2012, TriCore visited the site to collect one soil sample for the analysis of the waste disposal parameters to profile the soil that was to be excavated and removed during the trenching and piping installation activities. The soil sample was collected in laboratory provided containers, labeled accordingly, and packed in a cooler containing ice. The cooler was then shipped under standard chain-of-custody protocol to Pace for the analysis of waste disposal parameters which included pH using USEPA Method 9045, toxicity characteristic leaching procedure lead using USEPA Method 6010, flashpoint using USEPA Method 1010, and paint filter using USEPA Method 9095. A copy of the analytical laboratory report and certification is provided in Attachment A.

From October 22 through October 30, 2012, TriCore directed the excavation of approximately 311 feet of trench for the installation of the remediation system piping and DPE wells. The locations of the trenches are illustrated on Figures 1 and 1A.

The trenches for the remediation system piping were excavated to a maximum depth of 5 feet bls. Additionally, each DPE well was exposed to a depth ranging between 3 and 4 feet bls. Barricades and caution tape were utilized to safely secure the open trenches to prevent any pedestrians from entering the trench areas.

Once a trench was excavated, the horizontal piping was installed within the trench and connected to each DPE well. Individual piping was installed at each DPE well, which would run back to the location of the remediation trailer. Each recovery well has a 1-inch diameter drop tube lowered into the well through a well seal to various depths depending on a comparison of elevation to the other recovery wells. This enables the operation of individual wells for system optimization. Once the piping was connected, the trenches were backfilled to approximately 3 inches bls using pea gravel and CA-6 stone. During the backfilling of the trenches, a compactor was utilized to compact the backfill material to prevent settling of the materials after the trenches were paved or backfilled to ground surface. After compaction, the trenches located within the grassy area were backfilled with soil, while the trenches located within the paved areas were backfilled with gravel to ground surface. At each recovery well location, a 24-inch by 24-inch square flush-mount steel well vault with a bolt down cover was installed to protect each well. The well vault also allows access to the recovery well, drop tube, and fittings.

On November 13, 2012, TriCore contracted Judge Concrete (Judge) of Wauconda, Illinois to

resurface the remediation system trenches located within the paved areas with concrete, and to pour a concrete collar around each recovery well vault located within the grassy area to prevent sinking or movement of the well vaults.

Photographs documenting the trenching and piping installation activities, and the paving activities are provided in Attachment C.

Infiltration Gallery Installation

During the trenching and piping installation activities described above, an infiltration gallery approximately 5 feet wide by 15 feet long was excavated near RW-6. The infiltration gallery was excavated to approximately 10 feet bls, which was the depth at which the field-interpreted groundwater table was observed during the excavation of the gallery. After the infiltration gallery was excavated, it was backfilled with gravel to approximately 4 feet bls. A manifold of 2 slotted pipes were then installed at approximately 4 feet bls and covered with mesh socks to avoid the slots becoming fouled with fines. The infiltration gallery was then backfilled with additional gravel to ground surface. The location of the infiltration gallery is illustrated on Figures 1 and 1A. Photographs documenting the infiltration gallery excavation and installation activities are provided in Attachment C.

Baseline Groundwater Sampling

On February 21, 2013, TriCore performed baseline groundwater sampling activities on the system recovery wells (RW-1, RW-1 ('04), RW-3 through RW-10, and MW-29). System recovery well RW-2 was not sampled because there was not enough volume of water within the well to collect samples. On October 2 and 3, 2013, TriCore performed baseline groundwater sampling activities on all of the existing groundwater monitoring wells (MW-2, MW-4, MW-6, MW-8S, MW-8D, MW-9S, MW-9D, MW-10S, MW-10D, MW-11S, MW-11D, MW-12S, MW-12D, MW-13 through MW-19, MW-21 through MW-28, and MW-32). The locations of the system recovery wells and groundwater monitoring wells are illustrated on Figures 1 and 1A. The analytical laboratory results from the baseline groundwater sampling event will be used to evaluate the changes in the concentrations of the indicator contaminants with time due to natural and system induced reduction.

Prior to sampling the wells, the depth to groundwater was measured in the wells using an electronic oil/water interface probe equipped with an audible signal. The electronic oil/water interface probe was washed with a distilled water and Simple Green® mixture between each use. On February 21, 2013, after gauging, the wells were purged by removing three to five well volumes using a vacuum truck. TriCore contracted North Branch Environmental of Roselle, Illinois to provide the vacuum truck. On October 2 and 3, 2013, after gauging, the wells were purged by removing three to five well volumes using dedicated, disposable high density polyethylene (HDPE) bailers.

On each date, after the wells were developed and allowed to recharge, groundwater samples were collected from each well using dedicated, disposable HDPE bailers. Each sample was collected without headspace in laboratory-provided containers. The containers were labeled accordingly and packed in a cooler containing ice. The cooler was then shipped under standard chain-of-custody protocol to Pace for the analysis of BTEX and MTBE using USEPA Method 8021.

Analytical laboratory results revealed the following detected concentrations exceeded the Tier 1 groundwater remediation objectives (GROs) at the sample locations indicated below.

Indicator Contaminant	Sample Location
Benzene	RW-1, RW-1 ('04), RW-3 through RW-9, MW-2, MW-4, MW-11S, MW-13, MW-15, MW-16, MW-27, MW-29, MW-30, MW-32
Toluene	RW-3, RW-4, RW-6, RW-8, MW-27, MW-29, MW-30
Ethylbenzene	RW-3, RW-8, MW-29
Total Xylenes	RW-3, MW-29

Analytical laboratory results are summarized in Table 2 and illustrated on Figure 3. Copies of the analytical laboratory reports and certifications are provided in Attachment D.

After groundwater samples were collected on February 21, 2013, the system recovery wells were surveyed in reference to a bench mark so that the elevation of the drop tubes, groundwater elevations, and flow direction could be determined.

Remediation Trailer Installation and Startup

In the spring of 2013, the Village of Wauconda required a building permit for the remediation system trailer. Initially, the Village had not required a permit; however, upon further inspection of the site and the proposed remediation system trailer, the Village required a permit to be obtained. As a requirement of the building permit, the following items were installed and/or completed: 1) a 5-foot tall black aluminum fence around the remediation system trailer to enclose the system, 2) landscaping around the fence be installed, and 3) grading and seeding of the grassy area where the remediation system trenching was completed.

On May 23, 2013, TriCore contracted Judge to pour a concrete pad 6-inches thick for the remediation trailer to be located on. TriCore was on site overseeing the activities.

On June 6, 2013, TriCore contracted Acres Group of Wauconda, Illinois to grade and seed the grassy area where the remediation system trenching was completed as required by the Village of Wauconda. TriCore was on site overseeing the activities.

On July 24, 2013, Bisco Environmental, Inc. (Bisco) of Taunton, Massachusetts delivered the DPE system equipment and trailer to the site. From July 24 through November 1, 2013, various components of the DPE system were installed and/or connected. This included connecting the subsurface individual DPE well distribution piping and infiltration gallery piping to the piping located within the remediation trailer, connecting the power supply to the remediation building, installing and connecting a phone line, and installing and connecting the wiring and probe for the infiltration gallery.

August 21, 2013, TriCore contracted Aronson Fence Co, Inc. of Wauconda, Illinois to install the 5-foot tall black aluminum fence around the remediation system trailer as required by the Village of Wauconda. TriCore was on site overseeing the activities.

On November 1, 2013, the DPE system was started. Further details regarding the operation and maintenance (O&M) of the system are provided below. Photographs of the remediation system are provided in Attachment C.

Remediation Effectiveness

DPE System Operation

The DPE remediation system operated continuously from November 1, 2013 through January 22, 2014, from August 6, 2014 through January 21, 2015, from February 6 through March 12, 2015, and from April 15 through the date that this report was submitted, with periodic shutdowns for O&M, cleaning, and equipment scaling issues.

During the operation of the remediation system, bi-weekly O&M events were conducted (or more frequently, if the system shut down in between O&M events) to inspect, monitor, and clean all system components to ensure continued operation. A typical O&M event consisted of inspecting all system components for wear and tear, and taking readings from all system gauges and meters. System components that required cleaning were dismantled and cleaned to ensure their optimal operation.

Throughout the operation of the remediation system, the drop tubes in the system recovery wells were periodically adjusted so that the bottom of each drop tube was approximately at the same elevation so that all of the recovery wells have a more equal vacuum distribution.

Throughout the operation of the remediation system, TriCore observed heavy scaling on remediation system components including the rotometers for the recovery wells, the transfer pumps and floats for the knockout (KO) tank, oil water separator (OWS), and air stripper (AS), and the AS trays. The scaling has also caused corrosion and pitting of the floats in the KO tank and OWS, causing them to fill with water and not operate correctly. When the floats fill with water, the water level within the corresponding KO tank or OWS reaches a point that causes the remediation system to shut down or malfunction.

As a result of the corrosion, and due to additional circumstances, the following activities have been conducted beyond the scope of the routine O&M.

- Between November 26, 2013 and June 1, 2015, the KO tank floats were cleaned and /or replaced on 25 different O&M visits due to excessive scaling, corrosion, and pitting
- Between November 26, 2013 and June 1, 2015, the OWS tank floats were cleaned and /or replaced on 23 different O&M visits due to excessive scaling, corrosion, and pitting.
- On November 26, 2013, heat trace was installed on the remediation system piping exiting the remediation trailer and entering the ground. TriCore then contracted Blue Ribbon Electrical, Inc. of Harvard, Illinois to connect the wiring for the heat trace to the electrical panel for the remediation system. The heat trace was installed to keep the exposed piping heated throughout the cold months to prevent freezing of any liquids within the piping.
- On December 13, 2013, water was observed discharging out of the AS effluent air stack. After further investigation it was determined that a combination of scaling of the AS trays and freezing temperatures was restricting the water in the top of the AS to infiltrate down through the AS, thus filling up the top AS tray and eventually discharging out of air stack.
- On December 18, 2013, the AS transfer pump was disassembled and cleaned due to excessive scaling. The AS was also disassembled and the trays were cleaned due to the excessive scaling.

- On December 20, 2013, Mrs. Gwen Carey, owner of the residential property located north of the site, called and complained about the soil vapor extraction (SVE) effluent air odor.
- On January 15, 2014, the KO tank transfer pump was disassembled and cleaned due to excessive scaling.
- On January 18, 2014, an alarm caused the DPE remediation system to shut down.
- On January 20, 2014, scaling was observed on the floats for the KO tank, causing them to malfunction and shut the DPE remediation system down on January 18, 2014. The floats were removed from the rod assembly within the KO tank site glass and individually cleaned. The floats were then reinstalled and the system was restarted. When the system was started, water was observed discharging out of the vacuum pump effluent air piping. The system was immediately shut down. This indicated that the high-high water level float for the KO tank malfunctioned as a result of the scaling and corrosion, not causing the transfer pump for the KO tank to turn on. Upon further inspection and evaluation, it was discovered that the system continued to run and water continued to enter the system from the recovery wells. Since the transfer pump for the KO tank didn't turn on when the water level reach the high water level float or the high-high water level float, the KO tank became full and the water then entered the piping running from the KO tank to the vacuum pump. The water was drawn through the vacuum pump particulate filter and then entered the vacuum pump. Once the water entered the vacuum pump, it triggered an alarm and caused the system to shut down. The water within the piping between the KO tank and vacuum pump was drained and the vacuum pump particulate filter was dried. The oil in the vacuum pump was also replaced. The remediation system was then left off for the remainder of the day.
- On January 21, 2014, residual water within the vacuum pump had accumulated in the oil reservoir. Therefore, TriCore replaced the oil within the vacuum pump. The particulate filter was re-installed and the system was restarted.
- On January 22, 2014, Mrs. Carey called and complained about the nuisance noise created by the vacuum pump effluent air discharge. Therefore, after O&M readings were collected, the remediation system was shut down until a silencer could be purchased and installed on the vacuum pump effluent air discharge pipe.
- On January 29, 2014, TriCore placed an order with Bisco for a silencer from Stoddard Silencers, Inc. (Stoddard).
- On February 11 and 25, 2014, TriCore contacted Bisco for an update on the order of the silencer. Bisco indicated that there would be a delay of 3 to 4 weeks due to a delay at the Stoddard factory.
- On March 3, 2014, Bisco contacted TriCore and indicated that there would be an additional delay in receiving the silencer and suggested that they could order a silencer through Universal AET (Universal). Due to the delay with Stoddard and the time that the system had been shut down, TriCore placed the order with Bisco for the silencer from Universal.
- On March 21, 2014, TriCore contacted Bisco for an update on the silencer from Universal.
- On March 24, 2014, Bisco indicated that Universal had shipped the silencer.

- On April 15, 2014, TriCore still had not received the silencer and thus contacted Bisco for an update on it's shipment. TriCore could not get in touch with anyone at Bisco. Therefore, TriCore contacted Universal directly for an update. Universal indicated that an order from Bisco for the silencer had not been placed.
- On April 17, 2014, TriCore received a call from Bisco who indicated that they had not placed the order for the silencer due to their internal miscommunication. Bisco indicated that they were placing the order and TriCore would receive the silencer within 7 to 10 business days.
- On May 9, 2014, TriCore still had not received the silencer and again contacted Bisco for a status. Bisco indicated that the silencer was on back order until June 3, 2014. TriCore then proceeded to search for a silencer from a different supplier.
- On May 22, 2014, TriCore placed an order for the silencer through Stoddard. TriCore then cancelled the order with Bisco.
- On May 29, 2014, TriCore received the silencer from Stoddard.
- On May 30, 2014, TriCore installed the silencer on the vacuum pump effluent air discharge pipe. Additionally, TriCore replaced the floats for the KO tank due to scaling and corrosion observed. The remediation system was then restarted; however, the vacuum pump was not operating correctly. Therefore the remediation system was shut down to trouble shoot the pump.
- On June 9, 2014, TriCore met a representative from Air Services Company (Air Services) on site to inspect the vacuum pump. Based on the inspection, the Air Services representative indicated that moisture was present within the pump and it would have to be removed from the remediation trailer and transported to their shop for further inspection and service.
- On June 25, 2014, Air Services removed the vacuum pump from the remediation trailer and transported the pump to their shop for further inspection and service. The inspection of the vacuum pump revealed water in the compression chamber that caused damage to the cylinder, both claws, both shafts, and regulating valve.
- On June 27, 2014, TriCore replaced the hosing for the KO tank transfer pump because it was cracked.
- On July 1, 2014, TriCore purchased a used vacuum pump due to the cost to repair the existing vacuum pump. The used vacuum pump was then transported to Air Services for inspection and maintenance prior to it's installation.
- On August 6, 2014, Air Services transported and installed the used vacuum pump at the site. TriCore then contracted Blue Ribbon Electrical, Inc. (Blue Ribbon) of Harvard, Illinois to wire and connect the new vacuum blower to electrical panel of the remediation system. After the vacuum pump was installed and connected, the remediation system was restarted.
- On August 8, 2014, Mrs. Carey called and complained about the noise coming from the air stripper intake piping. The air stripper intake piping is located on the north side of the remediation trailer, which is the side of the trailer closest to Mrs. Carey's house. Therefore, the remediation system was shut down.

- On August 11, 2014, TriCore repiped the air stripper intake piping from the north side of the remediation trailer to the south side of the remediation trailer. The remediation system was then restarted.
- On August 12, 2014, Mrs. Carey called and complained about the effluent air odor. Therefore, the remediation system was shut down.
- On September 3, 2014, TriCore installed two vapor-phase granular activated carbon (VGAC) units at the site to reduce the effluent air concentrations. The VGAC units were previously utilized with a DPE system at a LUST site that has received a No Further Remediation (NFR) letter. After the VGAC units were installed, the remediation system was restarted. Each VGAC unit holds 250-lbs of carbon.
- On September 15, 2014, the AS was disassembled and the trays were cleaned due to the excessive scaling.
- On September 30, 2014, the carbon within both VGAC units was changed. The carbon that was removed from the VGAC units was contained on site in four 55-gallon drums for disposal. The drums were labeled with nonhazardous waste labels.
- On November 20, 2014, the KO tank, OWS, and AS transfer pumps were disassembled and cleaned due to excessive scaling.
- On December 10, 2014, the AS was disassembled and the trays were cleaned and descaled due to the excessive scaling. North Branch to assist with the cleaning and descaling.
- Between December 2 and 30, 2014, a small oil leak was observed on the vacuum pump. As a result, TriCore added oil to the vacuum pump during each site visit due to the oil level in the vacuum pump being low.
- On January 5, 2015, Air Services was on site to inspect the oil leak from the vacuum pump. Air Services discovered that a faulty seal was causing the oil leak.
- On January 12, 2015, the OWS alarm caused the remediation system to shut down. During the O&M visit prior to the system shutting down, TriCore added oil to the vacuum pump.
- On January 13, 2015, TriCore observed water on the floor of the remediation system trailer. Upon further inspection TriCore determined that the OWS high-high water level float malfunctioned due to scaling, corrosion, and pitting. The corrosion and pitting caused the float to fill with water and not function properly.
- On January 14, 2015, TriCore replaced the high-high water level float on the OWS and the remediation system was restarted.
- On January 21, 2015, Air Services removed the vacuum pump from the remediation trailer and transported the pump to their shop to replace the seal. TriCore also performed routine O&M after the vacuum pump was removed. During the O&M, TriCore discovered that the AS air intake piping was clogged with leaves. TriCore removed the leaves.
- On February 6, 2015, Air Services transported and reinstalled the used vacuum pump at the site. After the vacuum pump was installed, the remediation system was restarted.
- On February 10, 2015, the KO tank and AS transfer pumps were disassembled and cleaned

due to excessive scaling.

- On March 2, 2015, the AS was disassembled and the trays were cleaned due to the excessive scaling. Additionally, the AS transfer pump was disassembled and cleaned due to excessive scaling.
- On March 6, 2015, TriCore observed water leaking from an AS tray. The system was shut down and the AS trays were inspected. Upon inspection, TriCore observed a crack in the inner wall of one of the AS trays. Additionally, Mrs. Carey called and complained about the effluent air odor. Therefore, the remediation system was shut down.
- On March 12, 2015, Air Services removed the vacuum pump from the remediation trailer and transported the pump to their shop to repair another oil leak. Upon inspection of the pump, Air Services discovered that another faulty seal was causing the oil leak. Therefore, Air Services replaced the faulty seal.
- On April 15, 2015, Air Services transported and reinstalled the used vacuum pump at the site. After the vacuum pump was installed, the remediation system was restarted.
- On May 19, 2015, TriCore replaced the KO tank transfer pump due to the pump not operating correctly. Additionally, TriCore contracted Blue Ribbon to install an outlet for the chemical pump that will be installed to reduce the excessive fouling and scaling of the various system components caused by the influent groundwater.

DPE System Sampling

Remediation system influent and effluent water samples were collected on November 1 and 7, 2013 (prior to system start up), on November 14, 2013 (at system start up), on November 20, 2013 (one week after system operation), and monthly thereafter during the operation of the system. These samples are collected in order to monitor the concentrations of the indicator contaminants entering the air stripper, being treated by the air stripper, and discharging into the infiltration gallery. The system water samples were collected when both the AS and groundwater discharge pumps were on and then collecting samples from the sample ports. The water samples were collected without headspace in laboratory-provided containers. The containers were then labeled accordingly and packed in a cooler containing ice. The cooler was then shipped under standard chain-of-custody protocol to Pace for the analysis of BTEX and MTBE using USEPA Method 8021.

Analytical laboratory results from the effluent water samples collected on November 1, 2013 (prior to system start up) and on November 25, 2014 (during system operation) revealed benzene concentrations exceeding the Tier 1 GROs. Immediately after the analytical laboratory results were received and exceedances above the Tier 1 GROs were identified, TriCore made system adjustments and performed additional system component cleaning to maximize the effectiveness of the remediation system to treat the influent water concentrations to levels that do not exceed the Class I Groundwater Quality Standards referenced in 35 IAC Section 620.410. Subsequent effluent water sample results did not exceed the Class I Groundwater Quality Standards referenced in 35 IAC Section 620.410 after each adjustment was made.

Analytical laboratory results are summarized in Table 3. Copies of the analytical laboratory reports and certifications are provided in Attachment D.

On November 1, 2013 (prior to system start up) and August 11, 2014 (during system operation), air samples were collected from the SVE effluent component of the remediation system which for this system is a rotary claw vacuum pump. The air sample collected on November 1, 2013 was collected in Tedlar bags and submitted under standard chain-of-custody protocol to Pace in Minneapolis, Minnesota for BTEX, MTBE, total hydrocarbons (THC) as gas, and methane using USEPA Method TO-3. The air sample collected on August 11, 2014 was collected in a summa canister and submitted under standard chain-of-custody protocol to Pace in Minneapolis, Minnesota for BTEX, MTBE, and THC as gas using USEPA Method TO-17. The analytical laboratory results and the PID measurements collected from the SVE effluent assist in evaluating the system efficiency and calculating the total mass of VOCs removed by the SVE portion of the system. Analytical results for air samples are summarized in Table 4. The laboratory reports and certifications for the effluent air samples are provided in Attachment E.

Removal Data for November 14, 2013 through June 1, 2015

The DPE system was removing vapors from the system wells during this time period. A summary of the removal data during this time period is provided below.

SVE Effluent Air Flow Rate:	32 to 266 scfm
SVE Effluent Air PID Measurements:	19 to 1,023 ppm
Mass of BTEX and MTBE Removed:	185.00 pounds
Mass of VOCs Removed:	1,190.52 pounds
Groundwater Treated and Discharged	962,888 gallons

Mass removal rates for the remediation system are summarized in Table 5.

Quarterly Groundwater Sampling

On May 5 and 7, 2015, TriCore performed the first quarterly groundwater monitoring and sampling event on the system recovery wells (RW-1, RW-1 ('04) RW-3 through RW-10, and MW-29), the groundwater monitoring wells located in Osage Park (MW-14 through MW-19), and the groundwater monitoring wells with indicator contaminants concentrations that exceeded the Tier 1 GROs during the baseline groundwater sampling event (MW-2, MW-11S, MW-13, MW-27, and MW-32). Although benzene concentrations exceeded the Tier 1 GROs in MW-4 and MW-30 during the baseline groundwater sampling event, MW-4 was not sampled due to a blockage in the well not allowing the HDPE bailer to be lowered into the well and MW-30 could not be located. Prior to sampling, the depth to groundwater was measured in the wells using an electronic oil/water interface probe equipped with an audible signal. The system recovery wells were then purged utilizing the remediation system, while the groundwater monitoring wells located in Osage Park and the groundwater monitoring wells with indicator contaminants concentrations that exceeded the Tier 1 GROs during the baseline groundwater sampling event were purged by removing three to five well volumes using dedicated, disposable HDPE bailers. The purged groundwater was poured into the influent side of the OWS of the remediation system.

After the wells were purged and allowed to recharge, groundwater samples were collected from each well using the dedicated, disposable HDPE bailers. Each sample was collected without headspace in laboratory-provided containers. The containers were then labeled accordingly and

packed in a cooler containing ice. The cooler was shipped under standard chain-of-custody protocol to Pace for the analysis of BTEX and MTBE using USEPA Method 8021.

Analytical laboratory results revealed the following detected concentrations exceeded the Tier 1 GROs at the sample locations indicated below.

Indicator Contaminant	Sample Location
Benzene	MW-11S, MW-14, MW-15, MW-27, MW-29, MW-30, MW-32, RW-1, RW-1 ('04), RW-4, RW-5, RW-6, RW-7, RW-8, RW-9
Toluene	MW-29, MW-30

Analytical laboratory results are summarized in Table 2 and illustrated on Figure 3. Copies of the analytical laboratory reports and certifications are provided in Attachment D.

Proposed System Modifications

The frequent system shutdowns and additional O&M time required to mitigate the operational issues caused by the heavy scaling were investigated to determine if an alternative to additional O&M was available. Upon the recommendation of BISCO, the remediation system manufacturer, Redux Technology (Redux) was contacted. Redux specializes in the control of fouling of groundwater remediation systems. Redux suggested analyzing the influent water to the system for iron and total hardness to determine the root cause of the fouling. Therefore, on May 7, 2015, an influent system water sample was collected and submitted to Pace in Green Bay, Wisconsin for iron and total hardness.

Analytical laboratory results indicated an iron level of 4.260 milligrams per liter (mg/L) and a total hardness of 488.000 mg/L. Analytical laboratory results are summarized in Table 6. These results were submitted to Redux to determine the appropriate course of action.

Based on the iron and total hardness results, at the recommendation of Redux, on June 9, 2015, an influent water sample was collected and submitted to Pace in Green Bay, Wisconsin for pH and alkalinity.

Once the analytical laboratory results for pH and alkalinity are available and submitted to Redux, specific chemical formulation will be selected per Redux recommendation to best limit metal precipitation and scaling.

Redux confirmed that the iron and total hardness levels were substantially elevated and were likely causing the frequent and excessive fouling and scaling of the various system components. Redux recommends specific aqueous blend deposit control formulation designed to control hardness deposits in groundwater remediation systems. Their blend has been aggressively studied and evaluated for fate and transport effects, to ensure that the formulation is safe for the intended application. A dosage recommendation of 1 gallon per minute (gpm) of water flow through the system, which would be delivered via a siphoning pump that will be manually set to deliver the recommended dosage, based on a calculated DPE system average flow of 5.74 gpm. The pump would be integrated into the system alarms to ensure proper operation in concert with the other system components. Specifications for the Redux 390 formulation (blend expected to be used for this site), including a Material Safety Data Sheet and the pump are provided in Attachment F. The use of Redux 390 has been approved and is currently in use at another remediation system TriCore maintains in Fox Lake, Illinois. TriCore confirmed

through the IEPA Beareau of Water than an amendment to the discharge permit is not required when adding Redux 390.

Costs associated with the implementation of the Redux 390 pump system are included in the Amended Corrective Action Budget provided in Attachment G. An Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form is provided in Attachment H. A copy of the Office of the Illinois State Fire Marshal Eligibility and Deductible Determination letter is provided in Attachment I. An IEPA Corrective Action Plan (CAP) form is provided in Attachment J.

An updated remediation status report documenting the chemical addition and system operation through December 2015 will be prepared and submitted to the IEPA in January 2016.

Corrective Action Budget

In the CAP dated June 16, 2009 and in the Amended CAP dated April 23, 2010, TriCore estimated the activities and costs associated with remediation system installation. However, the actual remediation system installation and O&M included activities that were not included in the plans or budgets, such as:

- Lake County Health Department recovery well installation permit fees.
- Village of Wauconda building permit.
- Installation of concrete pad to support the remediation trailer.
- Installation of a fence and landscaping around the remediation trailer per the Village of Wauconda building permit requirements.
- Additional costs associated with remediation system trailer components.
- Additional costs associated with the transportation and shipping of the remediation system trailer to the site.
- Installation of power drop to the remediation trailer.
- Site-specific electrical hookup and configuration of the remediation trailer (i.e. build and install service pole).
- Electrical wiring for infiltration gallery alarm, system timers, replacement vacuum pump, and chemical pump.
- Purchase and installation of the SVE silencer for noise reduction for the residential property north of the site.
- Installation of additional piping to re-route the AS intake away from the residential property north of the site for noise reduction.
- Vacuum pump inspections, removals, repairs, and re-installations.
- Replacement of vacuum pump.
- Vacuum pump oil.
- Transportation and installation of VGAC units for odor reduction for the residential

property north of the site.

- Replacement of carbon and future replacement of carbon for the VGAC units.
- Disposal of spent carbon from the VGAC units.
- Replacement of KO tank transfer pump.
- Additional O&M costs expected over a two-year operation period due to observed corrosive groundwater conditions.

Therefore, the costs for the above activities have been included in the Amended Corrective Action Budget provided in Attachment G.

In addition, the following costs are being proposed for the operation of the remediation system through December 2015.

- System operation (electric and phone service) through December 2015
- O&M costs through December 2015
- Redux chemical costs through December 2015.
- Bimonthly air stripper cleaning (July, August, October, and December 2015)
- Quarterly groundwater monitoring and sampling events (August and November 2015)
- Quarterly air effluent sampling (August and November 2015)
- Monthly system water influent and effluent sampling (June through December 2015)

If you should have any questions concerning this submittal or require additional information, please contact the undersigned at (630) 520-9973 ext. 2 or via email at marcos.czako@tricoreweb.com.

Sincerely,

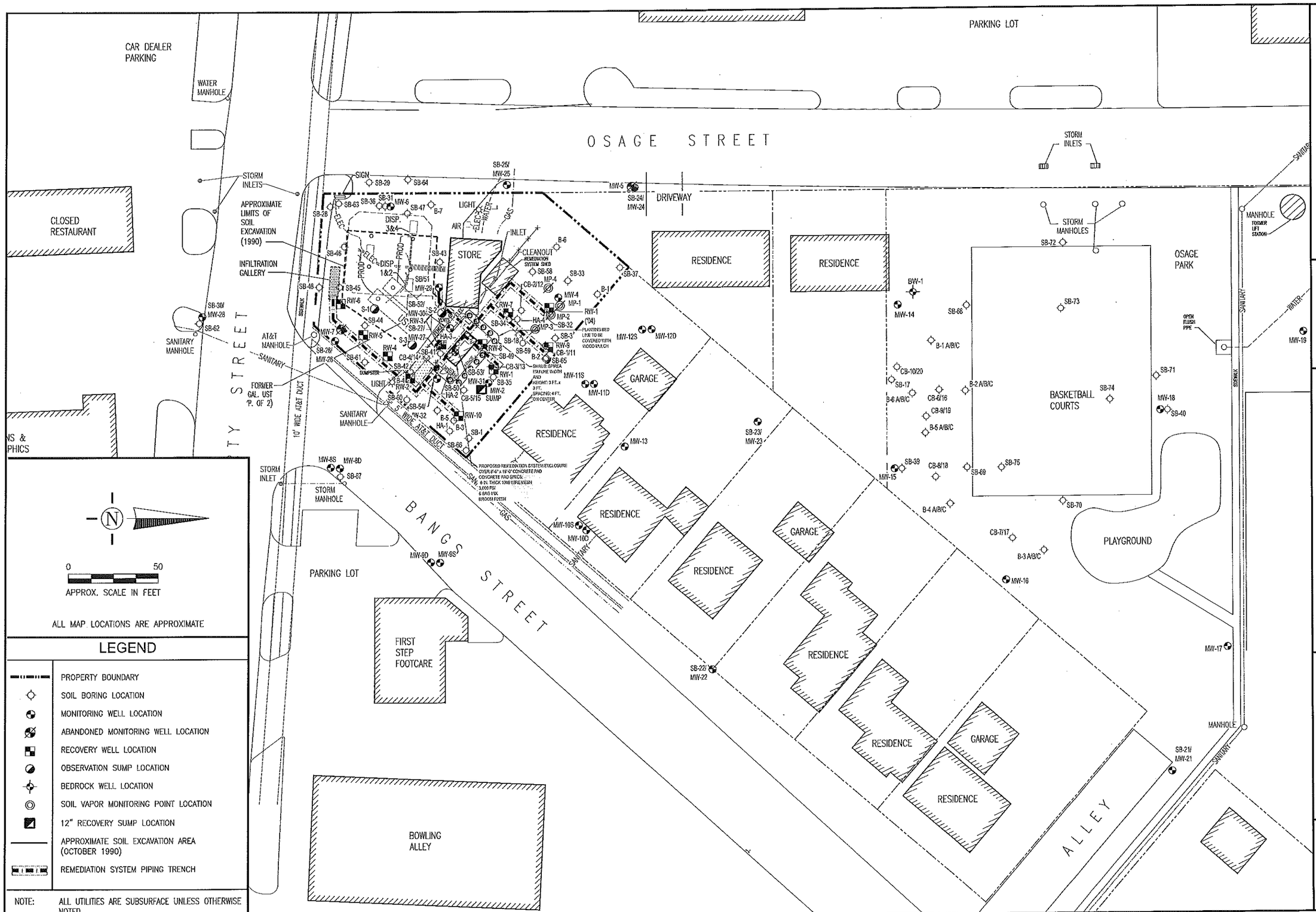
Marcos I. Czakó, P.G.
Senior Project Manager

Shawn Rodeck, P.E.
President

cc: Mr. Rajani Patel, Shivam Energy, Inc., 399 West Liberty Street, Wauconda, Illinois 60084
Mr. Indravadan Patel, Jay Shri Ganesha Inc., 399 West Liberty Street, Wauconda, Illinois 60084
Ms. Gwen Carey, 363 Bangs Street, Wauconda, Illinois 60084
Ms. Patricia Oaks, CIAO, Wauconda Township, 505 West Bonner Road, Wauconda, Illinois 60084

Attachments

FIGURES



ALL MAP LOCATIONS ARE APPROXIMATE

LEGEND

- PROPERTY BOUNDARY
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- OBSERVATION SUMP LOCATION
- BEDROCK WELL LOCATION
- SOIL VAPOR MONITORING POINT LOCATION
- 12" RECOVERY SUMP LOCATION
- APPROXIMATE SOIL EXCAVATION AREA (OCTOBER 1990)
- REMEDIATION SYSTEM PIPING TRENCH

NOTE: ALL UTILITIES ARE SUBSURFACE UNLESS OTHERWISE NOTED.

TriCore Environmental, LLC
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Naperville, IL 60563
(630) 520-9973

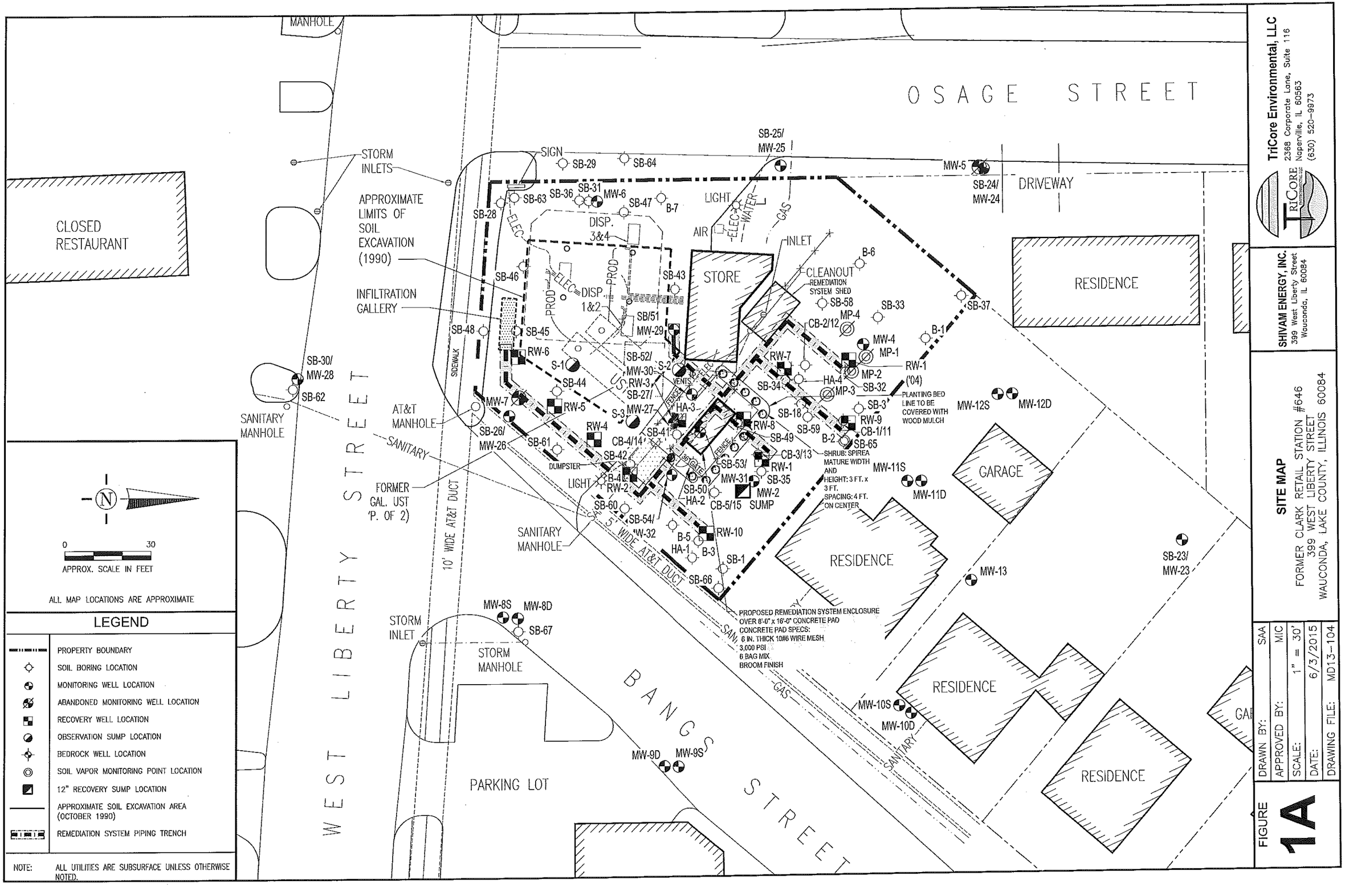
SHIVAM ENERGY, INC.
399 West Liberty Street
Wauconda, IL 60084

SITE MAP

FORMER CLARK RETAIL STATION #646
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

DRAWN BY:	SAA
APPROVED BY:	MIC
SCALE:	1" = 50'
DATE:	6/3/2015
DRAWING FILE:	MD13-104

FIGURE 1



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SITE MAP

FORMER CLARK RETAIL STATION #646
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

DRAWN BY:	SAA
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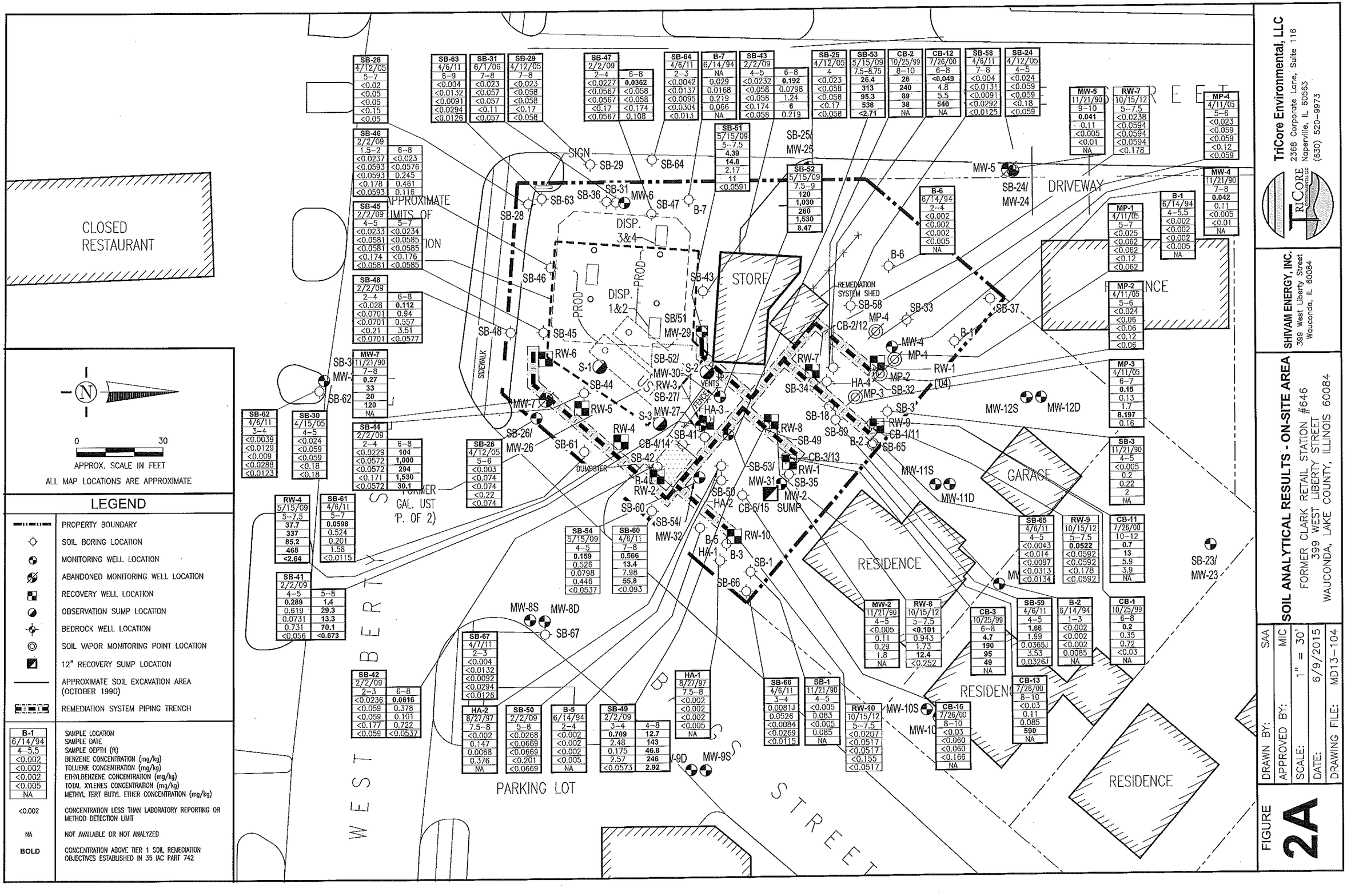
SCALE:	1" = 30'
DATE:	6/3/2015
DRAWING FILE:	MD13-104

FIGURE 1A



LEGEND

- PROPERTY BOUNDARY
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- OBSERVATION SUMP LOCATION
- BEDROCK WELL LOCATION
- SOIL VAPOR MONITORING POINT LOCATION
- 12" RECOVERY SUMP LOCATION
- APPROXIMATE SOIL EXCAVATION AREA (OCTOBER 1990)
- REMEDIATION SYSTEM PIPING TRENCH

B-1
6/14/94
4–5.5
<0.002
<0.002
<0.002
<0.005
NA

- SAMPLE LOCATION
- SAMPLE DATE
- SAMPLE DEPTH (ft)
- BENZENE CONCENTRATION (mg/kg)
- TOLUENE CONCENTRATION (mg/kg)
- ETHYLBENZENE CONCENTRATION (mg/kg)
- TOTAL XYLENES CONCENTRATION (mg/kg)
- METHYL TERT BUTYL ETHER CONCENTRATION (mg/kg)

<0.002 — CONCENTRATION LESS THAN LABORATORY REPORTING OR METHOD DETECTION LIMIT

NA — NOT AVAILABLE OR NOT ANALYZED

BOLD — CONCENTRATION ABOVE TIER 1 SOIL REMEDIATION OBJECTIVES ESTABLISHED IN 35 IAC PART 742

SB-28	SB-63	SB-31	SB-29	SB-47		SB-64	B-7	SB-43	SB-25	SB-53	CB-2	CB-12	SB-58	SB-24
4/12/05	4/6/11	6/1/06	4/12/05	2/2/09		4/6/11	6/14/94	2/2/09	4/12/05	5/15/09	10/25/99	7/26/00	4/6/11	4/12/05
5–7	8–9	7–8	7–8	2–4	6–8	2–3	NA	4–5	4	7.5–8.75	8–10	6–8	7–8	4–5
<0.02	<0.004	<0.023	<0.023	<0.0227	**0.0362**	<0.0042	0.029	<0.0232	<0.023	**26.4**	**26**	**<0.049**	<0.004	<0.024
<0.05	<0.0132	<0.057	<0.058	<0.0567	<0.058	<0.0137	0.0168	<0.058	<0.058	**313**	**240**	4.8	<0.0131	<0.059
<0.05	<0.0091	<0.057	<0.058	<0.0567	<0.058	<0.0095	0.219	<0.058	<0.058	**95.3**	**89**	5.5	<0.0091	<0.059
<0.15	<0.0294	<0.11	<0.17	<0.17	<0.174	<0.0304	0.066	<0.174	<0.17	**538**	**38**	**540**	<0.0292	<0.18
<0.05	<0.0126	<0.057	<0.058	<0.0567	0.108	<0.013	NA	<0.058	<0.058	**<2.71**	NA	NA	<0.0125	<0.059

SB-46		SB-45		SB-48		SB-51	SB-52	SB-24/ MW-24	B-6	MW-5	RW-7	MP-4	MW-4	B-1
2/2/09		2/2/09		2/2/09		5/15/09	5/15/09		6/14/94	11/21/90	10/15/12	4/11/05	11/21/90	6/14/94
1.5–2	6–8	4–5	5–7	2–4	6–8	5–7.5	7.5–9		2–4	9–10	5–7.5	5–6	7–8	4–5.5
<0.0237	<0.023	<0.0233	<0.0234	<0.028	**0.112**	**4.39**	**120**		<0.002	**0.041**	<0.0238	<0.023	**0.042**	<0.002
<0.0593	<0.0576	<0.0581	<0.0585	<0.0701	0.94	**14.8**	**1,030**		<0.002	0.11	<0.0594	<0.059	0.11	<0.002
<0.0593	0.245	<0.0581	<0.0585	<0.0701	0.557	2.17	**280**		<0.002	<0.005	<0.0594	<0.059	<0.005	<0.002
<0.178	0.461	<0.174	<0.176	<0.21	3.51	11	**1,530**		<0.005	<0.01	<0.0594	<0.12	<0.01	<0.005
<0.0593	0.116	<0.0581	<0.0585	<0.0701	<0.0577	<0.0591	**8.47**		NA	NA	<0.178	<0.059	NA	NA

MW-7	SB-62	SB-30	SB-44		SB-26	SB-61	SB-41		SB-42		SB-67	HA-2	SB-50	B-5	SB-49		HA-1	SB-66	SB-1	RW-10	CB-15	CB-13	SB-65	RW-9	CB-11	SB-3	CB-1
11/21/90	4/6/11	4/15/05	2/2/09		4/12/05	4/6/11	2/2/09		2/2/09		4/7/11	8/27/97	2/2/09	6/14/94	2/2/09		8/27/97	4/6/11	11/21/90	10/15/12	7/26/00	7/26/00	4/6/11	10/15/12	7/26/00	11/21/90	10/25/99
7–8	3–4	4–5	2–4	6–8	5–6	5–7	4–5	5–8	2–3	6–8	2–3	7.5–8	5–8	2–4	3–4	4–8	7.5–8	3–4	4–5	5–7.5	8–10	8–10	4–5	5–7.5	10–12	4–5	6–8
0.27	<0.0039	<0.024	<0.0229	**104**	<0.003	**0.0598**	**0.289**	1.4	<0.0236	**0.0616**	<0.004	<0.002	<0.0268	<0.002	**0.709**	**12.7**	<0.002	0.0081J	<0.005	<0.0207	<0.03	<0.03	<0.0043	<0.0592	**0.7**	<0.03	**0.2**
33	<0.0129	<0.059	<0.0572	**1,000**	<0.074	0.524	0.619	**29.3**	<0.059	0.378	<0.0132	0.147	<0.0669	<0.002	2.48	**143**	0.147	0.0526	0.083	<0.0517	0.11	0.11	<0.014	<0.0592	**13**	0.11	0.35
20	<0.009	<0.059	<0.0572	**294**	<0.074	0.201	0.0731	**13.3**	<0.059	0.101	<0.0092	0.0068	<0.0669	<0.002	0.175	**46.8**	0.0068	<0.0084	<0.005	<0.0517	0.085	**590**	<0.0097	<0.178	5.9	0.72	0.72
120	<0.0288	<0.18	<0.171	**1,530**	<0.22	1.58	0.731	**70.1**	<0.177	0.722	<0.0294	0.376	<0.201	<0.005	2.57	**246**	0.376	<0.0269	0.085	<0.155	NA	NA	<0.0313	<0.0592	3.9	<0.03	<0.03
NA	<0.0123	<0.18	<0.0572	**30.1**	<0.074	<0.0115	<0.056	**<0.673**	<0.059	<0.0537	<0.0126	NA	<0.0669	NA	<0.0573	**2.92**	NA	<0.0115	NA	<0.0517	<0.166	NA	<0.0134	NA	NA	NA	NA

RW-4	SB-61	SB-54	SB-60	MW-2	RW-8	CB-3	SB-59	B-2	CB-1
5/15/09	4/6/11	5/15/09	4/6/11	11/21/90	10/15/12	10/25/99	4/6/11	6/14/94	10/25/99
5–7.5	5–7	4–5	7–8	4–5	5–7.5	6–8	4–5	1–3	6–8
37.7	**0.0598**	**0.159**	**0.566**	<0.005	**<0.101**	**4.7**	**1.66**	<0.002	**0.2**
337	0.524	0.526	**13.4**	0.11	0.943	**190**	1.99	<0.002	0.35
85.2	0.201	0.0798	7.98	0.29	1.73	**95**	0.0365J	<0.002	0.72
465	1.58	0.446	**55.8**	1.8	**12.4**	**49**	3.53	0.0085	<0.03
<2.64	<0.0115	<0.0537	<0.093	NA	<0.252	NA	0.0326J	NA	NA

MW-5	RW-7	MP-4	MW-4	B-1	MP-1	MP-2	MP-3	SB-3
11/21/90	10/15/12	4/11/05	11/21/90	6/14/94	4/11/05	4/11/05	4/11/05	11/21/90
9–10	5–7.5	5–6	7–8	4–5.5	5–7	5–6	6–7	4–5
0.041	<0.0238	<0.023	**0.042**	<0.002	<0.025	<0.024	**0.15**	<0.005
0.11	<0.0594	<0.059	0.11	<0.002	<0.062	<0.06	0.13	0.2
<0.005	<0.0594	<0.059	<0.005	<0.002	<0.062	<0.06	1.7	0.22
<0.01	<0.0594	<0.12	<0.01	<0.005	<0.12	<0.12	**8.197**	2
NA	<0.178	<0.059	NA	NA	<0.062	<0.06	0.16	NA

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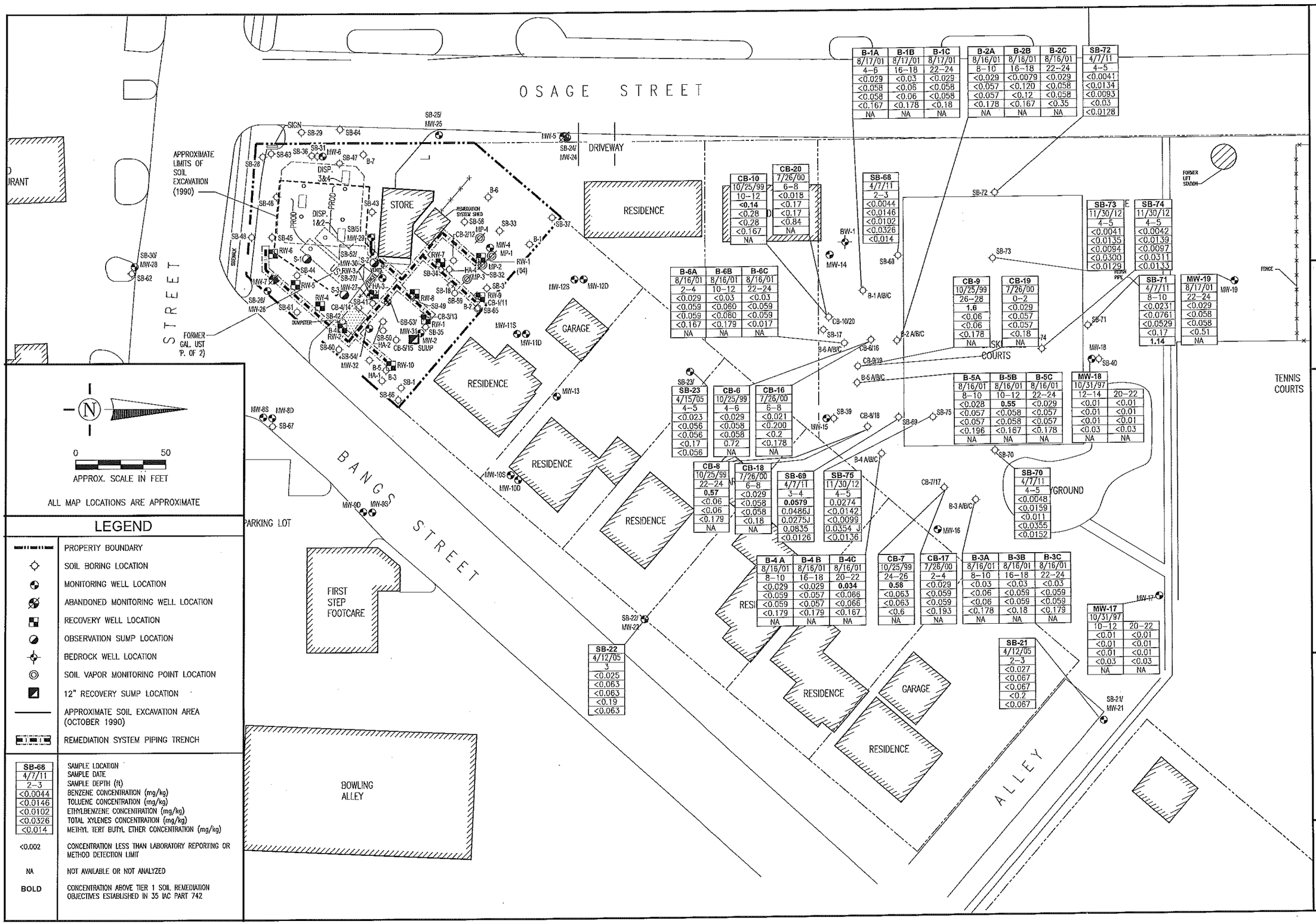
Wauconda, IL 60084

SOIL ANALYTICAL RESULTS - ON-SITE AREA
FORMER CLARK RETAIL STATION #646
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

DRAWN BY:	SAA
APPROVED BY:	MIC
SCALE:	1" = 30'
DATE:	6/9/2015
DRAWING FILE:	MD13–104

FIGURE **2A**



LEGEND

- PROPERTY BOUNDARY
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- OBSERVATION SUMP LOCATION
- BEDROCK WELL LOCATION
- SOIL VAPOR MONITORING POINT LOCATION
- 12" RECOVERY SUMP LOCATION
- APPROXIMATE SOIL EXCAVATION AREA (OCTOBER 1990)
- REMEDIATION SYSTEM PIPING TRENCH

SB-68	
4/7/11	SAMPLE DATE
2–3	SAMPLE DEPTH (ft)
<0.0044	BENZENE CONCENTRATION (mg/kg)
<0.0146	TOLUENE CONCENTRATION (mg/kg)
<0.0102	ETHYLBENZENE CONCENTRATION (mg/kg)
<0.0326	TOTAL XYLENES CONCENTRATION (mg/kg)
<0.014	METHYL TERT BUTYL ETHER CONCENTRATION (mg/kg)

<0.002 — CONCENTRATION LESS THAN LABORATORY REPORTING OR METHOD DETECTION LIMIT

NA — NOT AVAILABLE OR NOT ANALYZED

BOLD — CONCENTRATION ABOVE TIER 1 SOIL REMEDIATION OBJECTIVES ESTABLISHED IN 35 IAC PART 742

B-1A	B-1B	B-1C
8/17/01	8/17/01	8/17/01
4–6	16–18	22–24
<0.029	<0.03	<0.029
<0.058	<0.06	<0.058
<0.058	<0.06	<0.058
<0.167	<0.178	<0.18
NA	NA	NA

B-2A	B-2B	B-2C
8/16/01	8/16/01	8/16/01
8–10	16–18	22–24
<0.029	<0.0079	<0.029
<0.057	<0.120	<0.058
<0.057	<0.12	<0.058
<0.178	<0.167	<0.35
NA	NA	NA

SB-72	
4/7/11	
4–5	
<0.0041	
<0.0134	
<0.0093	
<0.03	
<0.0128	

CB-10	
10/25/99	
10–12	
<0.14	
<0.28	
<0.28	
<0.167	
NA	

CB-20	
7/26/00	
6–8	
<0.018	
<0.17	
<0.17	
<0.84	
NA	

SB-68	
4/7/11	
2–3	
<0.0044	
<0.0146	
<0.0102	
<0.0326	
<0.014	

SB-73	
11/30/12	
4–5	
<0.0041	
<0.0135	
<0.0094	
<0.0300	
<0.0129	

SB-74	
11/30/12	
4–5	
<0.0042	
<0.0139	
<0.0097	
<0.0311	
<0.0133	

B-6A	B-6B	B-6C
8/16/01	8/16/01	8/16/01
2–4	10–12	22–24
<0.029	<0.03	<0.03
<0.059	<0.060	<0.059
<0.059	<0.060	<0.059
<0.167	<0.179	<0.017
NA	NA	NA

CB-9	
10/25/99	
26–28	
1.6	
<0.06	
<0.06	
<0.178	
NA	

CB-19	
7/26/00	
0–2	
<0.029	
<0.057	
<0.057	
<0.18	
NA	

SB-71	
4/7/11	
8–10	
<0.0231	
<0.0761	
<0.0529	
<0.17	
1.14	

MW-19	
8/17/01	
22–24	
<0.029	
<0.058	
<0.058	
<0.51	
NA	

B-5A	B-5B	B-5C
8/16/01	8/16/01	8/16/01
8–10	10–12	22–24
<0.028	**0.55**	<0.029
<0.057	<0.058	<0.057
<0.057	<0.058	<0.057
<0.196	<0.167	<0.178
NA	NA	NA

MW-18	
10/31/97	
12–14	20–22
<0.01	<0.01
<0.01	<0.01
<0.01	<0.01
<0.03	<0.03
NA	NA

SB-23	
4/15/05	
4–5	
<0.023	
<0.056	
<0.056	
<0.17	
<0.056	

CB-6	
10/25/99	
4–6	
<0.029	
<0.058	
<0.058	
0.72	
NA	

CB-16	
7/26/00	
6–8	
<0.021	
<0.200	
<0.2	
<0.178	
NA	

CB-8	
10/25/99	
22–24	
0.57	
<0.06	
<0.06	
<0.179	
NA	

CB-18	
7/26/00	
6–8	
<0.029	
<0.058	
<0.058	
<0.18	
NA	

SB-69	
4/7/11	
3–4	
0.0579	
0.0486J	
0.0275J	
0.0835	
<0.0126	

SB-75	
11/30/12	
4–5	
0.0274	
<0.0142	
<0.0099	
0.0354 J	
<0.0136	

SB-70	
4/7/11	
4–5	
<0.0048	
<0.0159	
<0.011	
<0.0355	
<0.0152	

B-4 A	B-4 B	B-4C
8/16/01	8/16/01	8/16/01
8–10	16–18	20–22
<0.029	<0.029	**0.034**
<0.059	<0.057	<0.066
<0.059	<0.057	<0.066
<0.179	<0.179	<0.167
NA	NA	NA

CB-7	
10/25/99	
24–26	
0.58	
<0.063	
<0.063	
<0.6	
NA	

CB-17	
7/26/00	
2–4	
<0.029	
<0.059	
<0.059	
<0.193	
NA	

B-3A	B-3B	B-3C
8/16/01	8/16/01	8/16/01
8–10	16–18	22–24
<0.03	<0.03	<0.03
<0.06	<0.059	<0.059
<0.06	<0.059	<0.059
<0.178	<0.18	<0.179
NA	NA	NA

MW-17	
10/31/97	
10–12	20–22
<0.01	<0.01
<0.01	<0.01
<0.01	<0.01
<0.03	<0.03
NA	NA

SB-22	
4/12/05	
3	
<0.025	
<0.063	
<0.063	
<0.19	
<0.063	

SB-21	
4/12/05	
2–3	
<0.027	
<0.067	
<0.067	
<0.2	
<0.067	

TriCore Environmental, LLC
2368 Corporate Lane, Suite 116
Naperville, IL 60563
(630) 520–9973

SHIVAM ENERGY, INC.
399 West Liberty Street
Wauconda, IL 60084

SOIL ANALYTICAL RESULTS - OFF-SITE AREA

FORMER CLARK RETAIL STATION #646
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

DRAWN BY:	SAA
APPROVED BY:	MIC
SCALE:	1" = 50'
DATE:	6/3/2015
DRAWING FILE:	MD13-104

FIGURE **2B**

CAR DEALER PARKING

CLOSED RESTAURANT

APPROXIMATE LIMITS OF SOIL EXCAVATION (1990)

AGE STREET

STORE

DISP. 1&2

DISP. 3&4

PROD

RESIDENCE

GARAGE

FIRST STEP FOOTCARE

BOWLING ALLEY

OSAGE PARK

BASKETBALL COURTS

PLAYGROUND

OPEN FLUSH PIPE

FOSGER LIFT STATION

SIDEWALK

ALLEY

MW-6	MW-29	MW-25	RW-7	MW-4	MW-24
5/7/15	5/7/15	5/7/15	5/7/15	5/7/15	5/7/15
103.33	NA	102.83	102.71	102.75	101.72
10/3/13	5/5/15	10/3/13	5/5/15	10/3/13	10/3/13
<0.00034	0.870	<0.00034	0.379	0.0356	<0.00034
<0.00034	1.430	<0.00034	0.188	0.00041J	<0.00034
<0.00034	0.555	<0.00034	0.146	<0.00034	<0.00034
<0.0010	9.750	<0.0010	0.731	<0.0010	<0.0010
<0.00037	<0.0242	<0.00037	0.0020 J	0.00077J	<0.00037

RW-1('04)	MW-12S	MW-12D
5/7/15	5/7/15	5/7/15
102.76	102.79	102.44
5/5/15	10/2/13	10/2/13
0.0610	<0.00034	<0.00034
0.00073J	<0.00034	<0.00034
<0.00039	<0.00034	<0.00034
<0.0012	<0.0010	<0.0010
<0.00048	<0.00037	<0.00037

MW-28	RW-6
5/7/15	5/7/15
104.46	103.97
10/3/13	5/5/15
<0.00034	0.0142J
<0.00034	0.288
<0.00034	0.258
<0.0010	3.060
<0.00037	<0.0097

MW-26
5/7/15
103.73
10/3/13
<0.00034
0.00051J
0.00057J
0.0079
0.00054J

RW-5	RW-4	MW-27
5/7/15	5/7/15	5/7/15
103.96	104.02	102.58
5/5/15	5/5/15	5/7/15
1.610	0.207	0.875
0.827	0.0383	0.015
0.694	0.287	0.139
4.430	1.510	0.367
<0.0097	<0.0097	<0.0024

MW-32	RW-10
5/7/15	5/7/15
NA	103.29
5/7/15	5/5/15
0.0086J	0.00064J
0.0096J	<0.00039
0.114	0.0026
1.150	0.0037
<0.0097	0.0076

RW-1	MW-11S
5/7/15	5/7/15
102.88	102.99
5/5/15	5/7/15
0.200	0.0027
0.0343	<0.00039
0.130	<0.0012
0.506	<0.00048
<0.0024	

RW-8
5/7/15
101.69
5/5/15
0.798
0.624
0.287
3.840
<0.0097

MW-11D
5/7/15
102.71
10/2/13
0.0034
0.0028
0.0014
0.0039
<0.00037

MW-2
5/7/15
102.89
5/7/15
0.0029
0.0035
0.0855
0.795
<0.0012

MW-10S
5/7/15
103.02
10/2/13
<0.00034
<0.00034
<0.00034
<0.0010
0.0025

MW-10D
5/7/15
102.84
10/2/13
<0.00034
<0.00034
<0.00034
<0.0010
0.0024

MW-9S
5/7/15
103.77
10/2/13
<0.00034
<0.00034
<0.00034
<0.0010
<0.00037

MW-22
10/2/13
102.40
10/2/13
<0.00034
<0.00034
<0.00034
<0.0010
0.0019

MW-8S	MW-8D	RW-3	MW-9D
5/7/15	5/7/15	5/7/15	5/7/15
103.63	103.32	102.60	103.01
10/2/13	10/2/13	5/5/15	10/2/13
<0.00034	<0.00034	<0.00040	<0.00034
<0.00034	<0.00034	<0.00039	<0.00034
<0.00034	<0.00034	<0.00039	<0.00034
<0.0010	<0.0010	<0.0012	<0.0010
<0.00037	<0.00037	<0.00048	<0.00037

MW-14
5/7/15
99.16
5/7/15
0.506
0.235
0.367
7.220
<0.0048

MW-30
10/3/13
NA
10/3/13
6.430
4.170
0.314
9.720
<0.0186

MW-23	MW-15
5/7/15	5/7/15
98.04	99.67
10/2/13	5/7/15
<0.00034	1.530
<0.00034	0.0126
<0.00034	<0.00039
<0.0010	0.0272J
<0.00037	<0.0048

MW-18
5/7/15
96.61
5/7/15
<0.00040
<0.00039
<0.00039
<0.0012
<0.00048

MW-16	MW-17
5/7/15	5/7/15
98.96	99.20
5/7/15	5/7/15
0.0037	0.0010
<0.00039	<0.00039
<0.00039	<0.00039
<0.0012	<0.0012
0.0017	0.0071

MW-21
5/7/15
96.30
10/2/13
<0.00034
<0.00034
<0.00034
<0.0010
<0.00037

MW-19
5/7/15
97.44
5/7/15
<0.00040
<0.00039
<0.00039
<0.0012
0.00051J

0 50

APPROX. SCALE IN FEET

ALL MAP LOCATIONS ARE APPROXIMATE

LEGEND

	PROPERTY BOUNDARY
	SOIL BORING LOCATION
	MONITORING WELL LOCATION
	ABANDONED MONITORING WELL LOCATION
	RECOVERY WELL LOCATION
	OBSERVATION SUMP LOCATION
	BEDROCK WELL LOCATION
	SOIL VAPOR MONITORING POINT LOCATION
	12" RECOVERY SUMP LOCATION
	APPROXIMATE SOIL EXCAVATION AREA (oCTOBER 1990)

MW-4	SAMPLE LOCATION
5/7/15	GAUGING DATE
102.75	GROUNDWATER ELEVATION (ft)
10/3/13	SAMPLE DATE
0.0356	BENZENE CONCENTRATION (mg/L)
0.00041J	TOLUENE CONCENTRATION (mg/L)
<0.00034	ETHYLBENZENE CONCENTRATION (mg/L)
<0.0010	TOTAL XYLENES CONCENTRATION (mg/kg)
0.00077J	METHYL TERT BUTYL ETHER CONCENTRATION (mg/L)
<0.002	CONCENTRATION LESS THAN LABORATORY REPORTING OR METHOD DETECTION LIMIT
NA	NOT AVAILABLE

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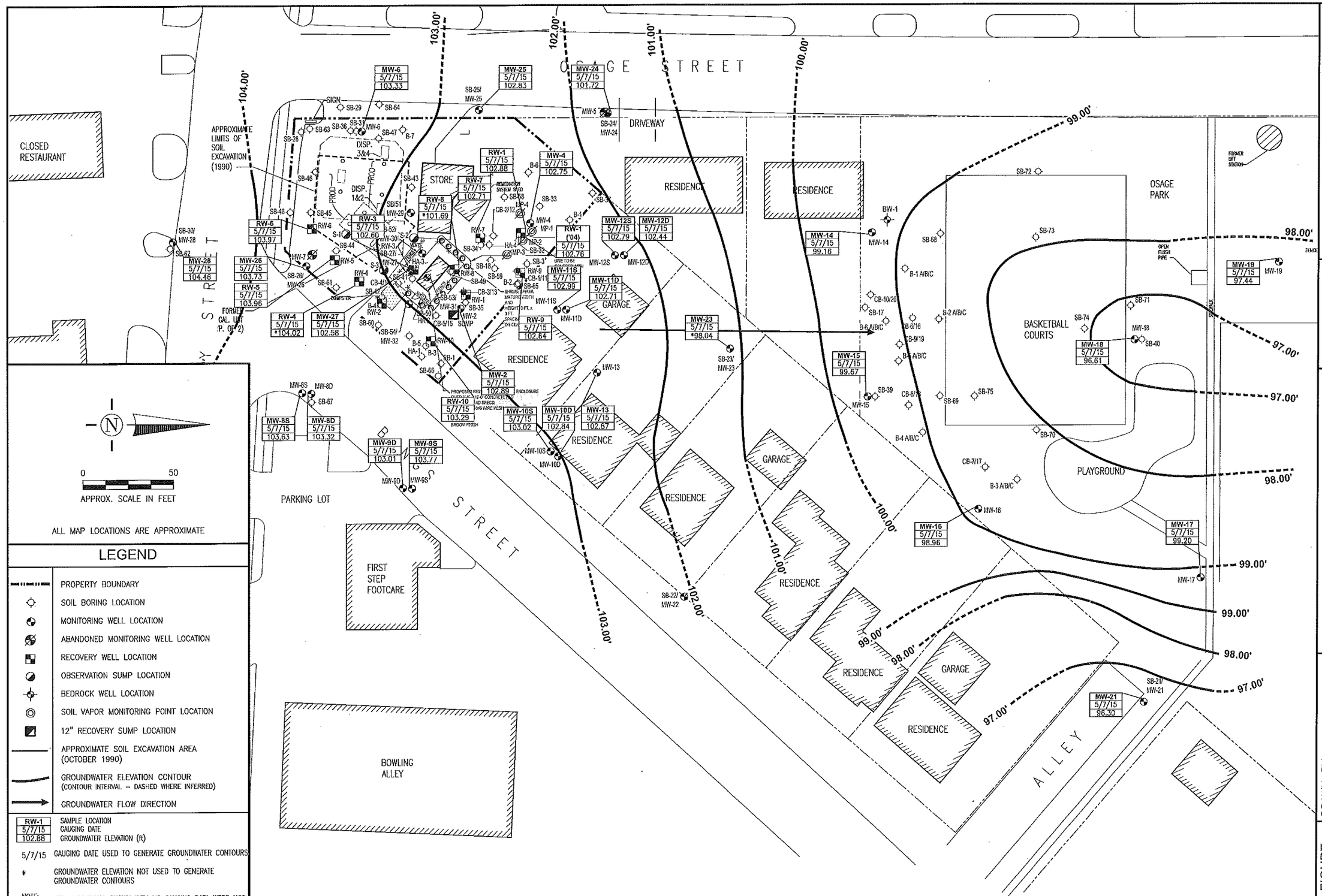
GROUNDWATER ANALYTICAL RESULTS
FORMER CLARK RETAIL STATION #646
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

FIGURE 3

DRAWN BY:	SAA
APPROVED BY:	MJC
SCALE:	1" = 50'
DATE:	6/3/2015
DRAWING FILE:	MD13-104



LEGEND

- PROPERTY BOUNDARY
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- ABANDONED MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- OBSERVATION SUMP LOCATION
- BEDROCK WELL LOCATION
- SOIL VAPOR MONITORING POINT LOCATION
- 12" RECOVERY SUMP LOCATION
- APPROXIMATE SOIL EXCAVATION AREA (OCTOBER 1990)
- GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL = DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

RW-1 / 5/7/15 / 102.88	SAMPLE LOCATION / GAUGING DATE / GROUNDWATER ELEVATION (ft)
5/7/15	GAUGING DATE USED TO GENERATE GROUNDWATER CONTOURS
*	GROUNDWATER ELEVATION NOT USED TO GENERATE GROUNDWATER CONTOURS
NOTE:	WELL LOCATIONS SHOWN WITH NO GAUGING DATA WERE NOT GAUGED ON 5/7/15

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GROUNDWATER ELEVATION MAP

FORMER CLARK RETAIL STATION #646
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

DRAWN BY:	SAA
APPROVED BY:	MIC
SCALE:	1" = 50'
DATE:	6/3/2015
DRAWING FILE:	MD13-104

FIGURE 4

TABLES

Table 1

Soil Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes				Indicator Contaminants and Tier 1 Soil Remediation Objectives				
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)
SCGIER - Class I Groundwater				**0.03**	**12**	**13**	**150**	**0.32**
Inhalation - Residential				**0.8**	**650**	400	**320**	8,800
Inhalation - Industrial/Commercial				**1.6**	**650**	400	**320**	8,800
Inhalation - Construction Worker				**2.2**	**42**	**58**	**5.6**	140
Ingestion - Residential				**12**	16,000	7,800	16,000	780
Ingestion - Industrial/Commercial				**100**	410,000	200,000	410,000	20,000
Ingestion - Construction Worker				2,300	410,000	20,000	41,000	2,000
Soil Saturation Limit - Outdoor Inhalation				800	**580**	350	**280**	8,400
Soil Saturation Limit - SCGIER				580	**290**	**150**	**110**	11,000
Sample ID	**Sample Date**	**Sample Depth (feet bls)**	**PID Reading (ppm)**					
SB-1	11/21/90	4-5	20	<0.005	0.083	<0.005	0.085	
SB-2/MW-2	11/21/90	4-5	20	<0.005	0.11	0.29	1.8	
SB-3	11/21/90	4-5	>100	<0.005	0.2	0.22	2	
SB-4/MW-4	11/21/90	7-8	50	**0.042**	0.11	<0.005	<0.01	
SB-5/MW-5	11/21/90	9-10	0	**0.041**	0.11	<0.005	<0.01	
SB-6/MW-6	11/21/90	7-8	50	**2.9**	**58**	**27**	**150**	
SB-7/MW-7	11/21/90	7-8	200	**0.27**	**33**	**20**	**120**	
B-1	6/14/94	4-5.5	1	<0.002	<0.002	<0.002	<0.005	
B-2	6/14/94	1-3	10	<0.002	<0.002	<0.002	0.0085	
B-3	6/14/94	5-7	60	<0.002	<0.002	<0.002	0.342	
B-4	6/14/94	5-7	50	<0.002	<0.002	<0.002	0.098	
B-5	6/14/94	2-4	13	<0.002	<0.002	<0.002	<0.005	
B-6	6/14/94	2-4	500	<0.002	<0.002	<0.002	<0.005	
B-7	6/14/94			0.029	0.0168	0.219	0.066	
HA-1	8/27/97	7.5-8	0	<0.002	<0.002	<0.002	<0.005	
HA-2	8/27/97	7.5-8	12	<0.002	0.147	0.0068	0.376	
HA-3	8/27/97	7.5-8	212	**8.21**	**92.4**	**39.4**	**238**	
HA-4	8/27/97	6.0-6.5	284	**1.45**	6.06	3.46	**44.5**	
SB-19/MW-17	10/31/97	10-12	0	<0.01	<0.01	<0.01	<0.03	
SB-19/MW-17	10/31/97	20-22	0	<0.01	<0.01	<0.01	<0.03	
SB-20/MW-18	10/31/97	12-14	0	<0.01	<0.01	<0.01	<0.03	
SB-20/MW-18	10/31/97	20-22	0	<0.01	<0.01	<0.01	<0.03	
CB-1	10/25/99	6-8	104	**0.2**	0.35	0.72	<0.03	
CB-2	10/25/99	8-10	294	**26**	**240**	**89**	**38**	
CB-3	10/25/99	6-8	510	**4.7**	**190**	**95**	**49**	
CB-4	10/25/99	8-10	90	**<0.12**	1.9	3.4	**200/<60**	
CB-5	10/25/99	8-10	21.9	<0.028	<0.056	<0.056	**37**	
CB-6	10/25/99	4-6	6.6	<0.029	<0.058	<0.058	0.72	
CB-7	10/25/99	24-26	2.6	**0.58**	<0.063	<0.063	<0.6	
CB-8	10/25/99	22-24	6.3	**0.57**	<0.06	<0.06	<0.179	
CB-9	10/25/99	26-28	7.6	**1.6**	<0.06	<0.06	<0.178	
CB-10	10/25/99	10-12	2.6	**<0.14**	<0.28	<0.28	<0.167	
CB-11	7/26/00	10-12	321	**0.7**	**13**	5.9	3.9	
CB-12	7/26/00	6-8	553	**<0.049**	4.8	5.5	**540**	
CB-13	7/26/00	8-10	307	<0.03	0.11	0.085	**590**	
CB-14	7/26/00	8-10	514	**<0.052**	0.76	3.4	**22.7**	
CB-15	7/26/00	8-10	18	<0.03	<0.060	<0.060	<0.166	
CB-16	7/26/00	6-8	2.7	<0.021	<0.200	<0.2	<0.178	
CB-17	7/26/00	2-4	3.0	<0.029	<0.059	<0.059	<0.193	
CB-18	7/26/00	6-8	3.6	<0.029	<0.058	<0.058	<0.18	
CB-19	7/26/00	0-2	3.3	<0.029	<0.057	<0.057	<0.18	
CB-20	7/26/00	6-8	3.2	<0.018	<0.17	<0.17	<0.84	
MW-19	8/17/01	22-24		<0.029	<0.057	<0.057	<0.51	
B-1a	8/17/01	4-6		<0.029	<0.058	<0.058	<0.167	
B-1b	8/17/01	16-18		<0.03	<0.06	<0.06	<0.178	
B-1c	8/17/01	22-24		<0.029	<0.058	<0.058	<0.18	
B-2a	8/16/01	8-10		<0.029	<0.057	<0.057	<0.178	
B-2b	8/16/01	16-18		<0.0079	<0.120	<0.12	<0.167	
B-2c	8/16/01	22-24		<0.029	<0.058	<0.058	<0.35	
B-3a	8/16/01	8-10		<0.03	<0.06	<0.06	<0.178	

Table 1

Soil Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes				Indicator Contaminants and Tier 1 Soil Remediation Objectives				
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)
SCGIER - Class I Groundwater				**0.03**	**12**	**13**	**150**	**0.32**
Inhalation - Residential				**0.8**	**650**	400	**320**	8,800
Inhalation - Industrial/Commercial				**1.6**	**650**	400	**320**	8,800
Inhalation - Construction Worker				**2.2**	**42**	**58**	**5.6**	140
Ingestion - Residential				**12**	16,000	7,800	16,000	780
Ingestion - Industrial/Commercial				**100**	410,000	200,000	410,000	20,000
Ingestion - Construction Worker				2,300	410,000	20,000	41,000	2,000
Soil Saturation Limit - Outdoor Inhalation				800	**580**	350	**280**	8,400
Soil Saturation Limit - SCGIER				580	**290**	**150**	**110**	11,000
Sample ID	**Sample Date**	**Sample Depth (feet bls)**	**PID Reading (ppm)**					
B-3b	8/16/01	16-18		<0.03	<0.059	<0.059	<0.18	
B-3c	8/16/01	22-24		<0.03	<0.059	<0.059	<0.179	
B-4a	8/16/01	8-10		<0.029	<0.059	<0.059	<0.179	
B-4b	8/16/01	16-18		<0.029	<0.057	<0.057	<0.179	
B-4c	8/16/01	20-22		**0.034**	<0.066	<0.066	<0.167	
B-5a	8/16/01	8-10		<0.028	<0.057	<0.057	<0.196	
B-5b	8/16/01	10-12		**0.55**	<0.058	<0.058	<0.167	
B-5c	8/16/01	22-24		<0.029	<0.057	<0.057	<0.178	
B-6a	8/16/01	2-4		<0.029	<0.059	<0.059	<0.167	
B-6b	8/16/01	16-18		<0.03	<0.060	<0.060	<0.179	
B-6c	8/16/01	20-22		<0.03	<0.059	<0.059	<0.017	
RW-1	4/11/05	4	1.3	<0.024	<0.059	<0.059	<0.12	<0.059
MP-1	4/11/05	5-7	0.8	<0.025	<0.062	<0.062	<0.12	<0.062
MP-2	4/11/05	5-6	0.7	<0.024	<0.06	<0.06	<0.12	<0.06
MP-3	4/11/05	6-7	238	**0.15**	0.13	1.7	**8.197**	0.16
MP-4	4/11/05	5-6	24.5	<0.023	<0.059	<0.059	<0.12	<0.059
SB-21/MW-21	4/12/05	2-3	5.1	<0.027	<0.067	<0.067	<0.2	<0.067
SB-22/MW-22	4/12/05	3	1.7	<0.025	<0.063	<0.063	<0.19	<0.063
SB-24/MW-24	4/12/05	4-5	0.9	<0.024	<0.059	<0.059	<0.18	<0.059
SB-25/MW-25	4/12/05	4	0.6	<0.023	<0.058	<0.058	<0.17	<0.058
SB-26/MW-26	4/12/05	5-6	5.3	<0.003	<0.074	<0.074	<0.22	<0.074
SB-27/MW-27	4/12/05	3-4	1.6	<0.023	<0.058	<0.058	<0.17	<0.058
SB-28	4/12/05	5-7	0.6	<0.02	<0.05	<0.05	<0.15	<0.05
SB-29	4/12/05	7-8	1.2	<0.023	<0.058	<0.058	<0.17	<0.058
SB-23/MW-23	4/15/05	4-5	1.3	<0.023	<0.056	<0.056	<0.17	<0.056
SB-30/MW-28	4/15/05	4-5	0.9	<0.024	<0.059	<0.059	<0.18	<0.18
SB-31	6/1/06	7-8	0.0	<0.023	<0.057	<0.057	<0.11	<0.057
SB-41	2/2/09	4-5	901	**0.289**	0.619	0.0731	0.731	<0.056
SB-41	2/2/09	5-8	>9,999	**1.4**	**29.3**	**13.3**	**70.1**	**<0.673**
SB-42	2/2/09	2-3	0.0	<0.0236	<0.059	<0.059	<0.177	<0.059
SB-42	2/2/09	6-8	629	**0.0616**	0.378	0.101	0.722	<0.0537
SB-43	2/2/09	4-5	33.7	<0.0232	<0.058	<0.058	<0.174	<0.058
SB-43	2/2/09	6-8	70.8	**0.192**	0.0798	1.24	**6**	0.219
SB-44	2/2/09	2-4	38.1	<0.0229	<0.0572	<0.0572	<0.171	<0.0572
SB-44	2/2/09	6-8	9,914	**104**	**1,000**	**294**	**1,530**	**30.1**
SB-45	2/2/09	4-5	7.8	<0.0233	<0.0581	<0.0581	<0.174	<0.0581
SB-45	2/2/09	5-7	16.0	<0.0234	<0.0585	<0.0585	<0.176	<0.0585
SB-46	2/2/09	1.5-2	11.4	<0.0237	<0.0593	<0.0593	<0.178	<0.0593
SB-46	2/2/09	6-8	314	<0.023	<0.0576	0.245	0.461	0.116
SB-47	2/2/09	2-4	0.6	<0.0227	<0.0567	<0.0567	<0.17	<0.0567
SB-47	2/2/09	6-8	6.8	**0.0362**	<0.058	<0.058	<0.174	0.108
SB-48	2/2/09	2-4	0.0	<0.028	<0.0701	<0.0701	<0.21	<0.0701
SB-48	2/2/09	6-8	>9,999	**0.112**	0.94	0.557	3.51	<0.0577
SB-49	2/2/09	3-4	63.7	**0.709**	2.48	0.175	2.57	<0.0573
SB-49	2/2/09	4-8	7,109	**12.7**	**143**	**46.8**	**246**	**2.92**
SB-50	2/2/09	5-8	8.5	<0.0268	<0.0669	<0.0669	<0.201	<0.0669
SB-51/MW-29	5/15/09	5-7.5	82.3	**4.39**	**14.8**	2.17	**11**	<0.0591
SB-52/MW-30	5/15/09	7.5-9	1,496	**120**	**1,030**	**280**	**1,530**	**8.47**
SB-53/MW-31	5/15/09	7.5-8.75	1,660	**26.4**	**313**	**95.3**	**538**	**<2.71**

Table 1

Soil Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes				Indicator Contaminants and Tier 1 Soil Remediation Objectives				
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)
SCGIER - Class I Groundwater				**0.03**	**12**	**13**	**150**	**0.32**
Inhalation - Residential				**0.8**	**650**	400	**320**	8,800
Inhalation - Industrial/Commercial				**1.6**	**650**	400	**320**	8,800
Inhalation - Construction Worker				**2.2**	**42**	**58**	**5.6**	140
Ingestion - Residential				**12**	16,000	7,800	16,000	780
Ingestion - Industrial/Commercial				**100**	410,000	200,000	410,000	20,000
Ingestion - Construction Worker				2,300	410,000	20,000	41,000	2,000
Soil Saturation Limit - Outdoor Inhalation				800	**580**	350	**280**	8,400
Soil Saturation Limit - SCGIER				580	**290**	**150**	**110**	11,000
Sample ID	**Sample Date**	**Sample Depth (feet bls)**	**PID Reading (ppm)**					
SB-54/MW-32	5/15/09	4-5	261	**0.159**	0.526	0.0798	0.446	<0.0537
RW-4	5/15/09	5-7.5	1,890	**37.7**	**337**	**85.2**	**465**	**<2.64**
SB-58	4/6/11	7-8	2.9	<0.004	<0.0131	<0.0091	<0.0292	<0.0125
SB-59	4/6/11	4-5	79.8	**1.66**	1.99	0.0365 J	3.53	0.0326 J
SB-60	4/6/11	7-8	3865	**0.566**	**13.4**	7.98	**55.8**	<0.093
SB-61	4/6/11	5-7	1890	**0.0598**	0.524	0.201	1.58	<0.0115
SB-62	4/6/11	3-4	0.7	<0.0039	<0.0129	<0.009	<0.0288	<0.0123
SB-63	4/6/11	8-9	0.6	<0.004	<0.0132	<0.0091	<0.0294	<0.0126
SB-64	4/6/11	2-3	2.3	<0.0042	<0.0137	<0.0095	<0.0304	<0.013
SB-65	4/6/11	4-5	1.3	<0.0043	<0.014	<0.0097	<0.0313	<0.0134
SB-66	4/6/11	3-4	2.1	0.0081 J	0.0526	<0.0084	<0.0269	<0.0115
SB-67	4/7/11	2-3	4.2	<0.004	<0.0132	<0.0092	<0.0294	<0.0126
SB-68	4/7/11	2-3	0.5	<0.0044	<0.0146	<0.0102	<0.0326	<0.014
SB-69	4/7/11	3-4	5.2	**0.0579**	0.0486 J	0.0275 J	0.0835	<0.0126
SB-70	4/7/11	4-5	0.5	<0.0048	<0.0159	<0.011	<0.0355	<0.0152
SB-71	4/7/11	8-10	636.5	<0.0231	<0.0761	<0.0529	<0.17	**1.14**
SB-72	4/7/11	4-5	0.7	<0.0041	<0.0134	<0.0093	<0.03	<0.0128
RW-7	10/15/12	5-7.5	1.6	<0.0238	<0.0594	<0.0594	<0.0594	<0.178
RW-8	10/15/12	5-7.5	1,744	**<0.101**	0.943	1.73	**12.4**	<0.252
RW-9	10/15/12	5-7.5	7.8	**0.0522**	<0.0592	<0.0592	<0.178	<0.0592
RW-10	10/15/12	5-7.5	15.8	<0.0207	<0.0517	<0.0517	<0.155	<0.0517
SB-73	11/30/12	4-5	0.0	<0.0041	<0.0135	<0.0094	<0.0300	<0.0129
SB-74	11/30/12	4-5	0.0	<0.0042	<0.0139	<0.0097	<0.0311	<0.0133
SB-75	11/30/12	4-5	0.0	0.0274	<0.0142	<0.0099	0.0354 J	<0.0136

Notes:
1) **Bold** = detected concentration, laboratory reporting limit, or method detection limit exceeds the Tier 1 soil remediation objectives listed in 35 Illinois Administrative Code Part 742
2) J = estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
3) Shading = not applicable or the soil sample location has been resampled

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
BW-1	1/19/93						BDL	BDL	BDL	BDL	
BW-1	6/17/93						<0.001	<0.001	<0.001	<0.001	
BW-1	1/11/93						<0.001	<0.001	<0.001	<0.001	
BW-1	6/27/94						<0.001	<0.001	<0.001	<0.003	
BW-1	2/16/95						<0.002	<0.002	<0.002	<0.005	
BW-1	7/28/95						<0.002	<0.002	<0.002	<0.005	
BW-1	3/22/96						<0.002	<0.002	<0.002	<0.005	
BW-1	10/11/01	99.08		27.34		71.74	<0.001	<0.001	<0.001	<0.003	
BW-1	3/14/02	99.08		25.56		73.52	<0.001	<0.001	<0.001	<0.003	
BW-1	6/6/02	99.08		30.36		68.72	<0.001	<0.001	<0.001	<0.003	
BW-1	8/30/02	99.08		28.25		70.83	<0.001	<0.001	<0.001	<0.003	
BW-1	12/6/02	99.08		26.61		72.47	<0.001	<0.001	<0.001	<0.003	
BW-1	5/6/04	99.08					Not able to open, manhole needs to be repaired				
MP-1	4/21/05	108.51		5.09		103.42	**0.49**	0.013	<0.0025	0.015	0.0096
MP-1	1/6/09	108.51					**0.0301**	0.0011	0.0021	<0.003	0.001
MP-1	12/3/12						Well destroyed during remediation system trenching				
MP-2	4/21/05	108.72		5.31		103.41	**0.23**	0.0095	0.14	0.2	0.0077
MP-2	12/3/12						Well destroyed during remediation system trenching				
MP-3	4/21/05	109.30		5.89		103.41	**0.13**	0.65	0.13	1.2	0.011
MP-3	12/29/08	109.30		5.17		104.13					
MP-3	6/22/10	109.30		5.71		103.59					
MP-3	6/30/10	109.30		5.68		103.62					
MP-3	7/6/10	109.30		5.62		103.68					
MP-3	7/13/10	109.30		5.67		103.63					
MP-3	7/20/10	109.30		5.64		103.66					
MP-3	7/27/10	109.30		5.60		103.70					
MP-3	8/18/10	109.30		5.63		103.67					
MP-3	8/24/10	109.30		5.78		103.52					
MP-3	8/31/10	109.30		5.82		103.48					
MP-3	9/21/10	109.30		5.65		103.65					
MP-3	9/30/10	109.30		5.63		103.67					
MP-3	10/12/10	109.30		5.65		103.65					
MP-3	11/3/10	109.30		5.58		103.72					
MP-3	11/15/10	109.30		5.65		103.65					
MP-3	12/2/10	109.30		5.71		103.59					
MP-3	12/10/11	109.30		5.65		103.65					
MP-3	1/5/11	109.30		6.63		102.67					
MP-3	3/14/11	109.30		5.64		103.66					
MP-3	4/14/11	109.30		5.72		103.58	**0.361**	**7.15**	**1.11**	**10.8**	<0.05
MP-3	12/3/12						Well destroyed during remediation system trenching				
MP-4	4/21/05	109.33		5.89		103.44	**0.24**	0.014	<0.001	0.013	0.0061
MP-4	12/3/12						Well destroyed during remediation system trenching				
MW-2	11/29/90		10.00	10.30	0.30						
MW-2	1/27/92		FP								
MW-2	2/19/92		FP								
MW-2	8/24/92		FP								
MW-2	1/19/93		FP								
MW-2	6/17/93	101.06		10.71		90.35	**0.23**	**3.2**	0.65	**15**	
MW-2	11/11/93	101.06		10.96		90.10	**0.134**	0.01	0.052	1.43	
MW-2	6/27/94	101.06	10.95	10.96	0.01	90.11					
MW-2	2/16/95	101.06		10.36		90.70	**0.178**	0.0313	0.447	0.3	
MW-2	7/28/95	101.06		10.13		90.93	**0.257**	0.117	0.139	0.808	
MW-2	3/22/96	101.06		11.14		89.92	**0.1**	0.154	0.331	3.93	
MW-2	6/17/96	101.06		9.33		91.73	0.0029	0.0041	0.0107	0.355	
MW-2	9/25/96	101.06		10.68		90.38	0.0154	0.0167	0.0546	0.584	
MW-2	4/24/97	101.06		9.89		91.17	**1.11**	**3.1**	**0.71**	5.76	
MW-2	6/17/97	101.06		9.88		91.18	**2.57**	**3.85**	0.487	5.53	
MW-2	8/27/97	101.06		10.48		90.58	**0.116**	0.519	0.534	7.45	
MW-2	11/5/97	113.61		10.75		102.86	**0.076**	0.02	0.31	2.4	
MW-2	2/27/98	113.61		10.23		103.38	**0.17**	0.029	0.074	0.73	
MW-2	6/10/98	113.61		10.08		103.53	**0.0079**	0.0011	0.0075	0.15	
MW-2	10/8/98	113.61		10.31		103.30	**0.013**	0.019	0.18	1.38	
MW-2	3/31/99	113.61		10.12		103.49	**0.64**	0.024	0.087	**250/<5**	
MW-2	6/9/99	113.61		10.00		103.61	**0.77**	0.22	0.075	0.62	
MW-2	9/2/99	113.61		10.60		103.01	**0.086**	0.0076	0.029	0.066	
MW-2	10/28/99	113.61		10.52		103.09	**0.16**	0.0025	0.016	0.041	
MW-2	2/23/00	113.61		10.32		103.29	**0.55**	0.019	0.27	0.861	
MW-2	5/24/00	113.61		9.77		103.84	**0.09**	0.11	0.11	1.37	
MW-2	8/15/00	113.61		10.21		103.40	**0.36**	0.13	0.054	0.41	
MW-2	11/9/00	113.61		10.03		103.58	**0.14**	0.099	0.12	0.96	
MW-2	10/11/01	113.61		10.24		103.37	**0.027**	0.036	0.02	0.142	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-2	3/14/02	113.61		9.85		103.76	**0.083**	0.012	0.13	0.72	
MW-2	6/6/02	113.61		9.62		103.99	**0.1**	0.052	0.32	3.08	
MW-2	8/30/02	113.61		10.16		103.45	**0.017**	0.0058	0.073	0.448	
MW-2	12/6/02	113.61		10.62		102.99	**0.012**	<0.001	0.003	0.0031/<0.001	
MW-2	5/6/04	113.61		10.34		103.27	**0.031**	0.0014	0.0046	0.003	<0.01
MW-2	4/21/05	113.61		10.17		103.44	**0.035**	<0.001	0.0022	0.029	0.024
MW-2	12/31/08	113.61		9.58		104.03					
MW-2	1/5/09	113.61		9.84		103.77					
MW-2	1/6/09	113.61					Obstruction in well, not able to collect samples				
MW-2	8/18/09	113.61		6.33		107.28					
MW-2	9/1/09	113.61		10.13		103.48					
MW-2	6/22/10	113.61		10.05		103.56					
MW-2	6/30/10	113.61		10.01		103.60					
MW-2	7/6/10	113.61		10.15		103.46					
MW-2	7/13/10	113.61		10.16		103.45					
MW-2	7/20/10	113.61		10.61		103.00					
MW-2	7/27/10	113.61		10.14		103.47					
MW-2	8/18/10	113.61		10.20		103.41					
MW-2	8/24/10	113.61		10.10		103.51					
MW-2	8/31/10	113.61		10.08		103.53					
MW-2	9/21/10	113.61		10.06		103.55					
MW-2	9/30/10	113.61		10.05		103.56					
MW-2	10/12/10	113.61		10.02		103.59					
MW-2	11/3/10	113.61		9.95		103.66					
MW-2	11/15/10	113.61		9.97		103.64					
MW-2	12/2/10	113.61		9.95		103.66					
MW-2	12/10/10	113.61		9.85		103.76					
MW-2	12/22/10	113.61		9.20		104.41					
MW-2	12/27/10	113.61		9.83		103.78					
MW-2	12/3/12	113.61		10.75		102.86					
MW-2	12/6/12	113.61		10.80		102.81					
MW-2	12/10/12	113.61		10.75		102.86					
MW-2	12/14/12	113.61		10.78		102.83					
MW-2	12/18/12	113.61		10.65		102.96					
MW-2	12/27/12	113.61		10.53		103.08					
MW-2	1/7/13	113.61		10.73		102.88					
MW-2	1/14/13	113.61		10.58		103.03					
MW-2	1/28/13	113.61		10.60		103.01					
MW-2	2/6/13	113.61		10.52		103.09					
MW-2	2/11/13	113.61		10.13		103.48					
MW-2	2/18/13	113.61		10.37		103.24					
MW-2	2/27/13	113.61		10.42		103.19					
MW-2	3/4/13	113.61		10.36		103.25					
MW-2	3/25/13	113.61		10.28		103.33					
MW-2	4/4/13	113.61		10.36		103.25					
MW-2	4/8/13	113.61		10.28		103.33					
MW-2	4/15/13	113.61		10.04		103.57					
MW-2	4/22/13	113.61		9.72		103.89					
MW-2	5/8/13	113.61		10.12		103.49					
MW-2	5/23/13	113.61		10.32		103.29					
MW-2	7/3/13	113.61		10.08		103.53					
MW-2	10/2/13	113.61		10.51		103.10	**3.200**	0.0295	0.0817	0.127	<0.0093
MW-2	5/7/15	113.61		10.72		102.89	0.0029	0.0035	0.0855	0.795	<0.0012
MW-4	11/28/90						**3.5**	0.33	0.27	1.1	
MW-4	1/27/92						**3.1**	0.065	0.072	4.147	
MW-4	8/24/92						**0.14**	0.024	0.19	0.49	
MW-4	1/19/93						**0.26**	0.006	BDL	0.021	
MW-4	6/17/93	98.97		8.22		90.75	**0.015**	<0.001	<0.001	0.005	
MW-4	11/11/93	98.97		8.58		90.39	<0.001	<0.001	<0.001	<0.001	
MW-4	6/27/94	98.97		8.65		90.32	**0.154**	0.0243	0.0081	0.0098	
MW-4	2/16/95	98.97		8.24		90.73	**0.253**	0.113	0.0845	0.202	
MW-4	7/28/95	98.97		8.06		90.91	**0.179**	0.0115	0.175	0.261	
MW-4	3/22/96	98.97		8.75		90.22	**0.363**	0.346	0.178	0.456	
MW-4	6/17/96	98.97		5.79		93.18	<0.002	<0.002	<0.002	<0.005	
MW-4	9/25/96	98.97		8.44		90.53	0.0032	<0.002	0.0052	0.0052	
MW-4	4/24/97	98.97		7.84		91.13	**0.444**	0.0255	0.0945	0.11	
MW-4	6/17/97	98.97		6.87		92.10	**0.386**	0.0359	0.125	0.273	
MW-4	8/27/97	98.97		8.23		90.74	**0.0568**	0.0321	0.128	0.322	
MW-4	11/5/97	111.44		8.54		102.90	**0.037**	0.0035	0.043	0.11	
MW-4	2/27/98	111.44		7.98		103.46	**0.13**	<0.005	<0.005	0.04	
MW-4	6/10/98	111.44		7.94		103.50	**0.029**	0.019	0.022	0.052	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-4	10/8/98	111.44		8.52		102.92	**0.018**	0.0024	0.033	0.1/<0.001	
MW-4	3/31/99	111.44		8.07		103.37	<0.001	<0.001	<0.001	<0.003	
MW-4	6/9/99	111.44		8.07		103.37	**0.36**	0.028	0.28	0.8228	
MW-4	9/2/99	111.44		9.50		101.94	**0.18**	0.017	0.28	1.1/<0.005	
MW-4	10/28/99	111.44		8.44		103.00	**0.073**	0.0046	0.095	0.360/<0.004	
MW-4	2/23/00	111.44		8.17		103.27	**0.57**	<0.005	0.042	0.061/<0.005	
MW-4	5/24/00	111.44		7.69		103.75	**0.095**	0.0057	0.01	0.0089/<0.001	
MW-4	8/15/00	111.44		8.10		103.34	**0.36**	0.022	0.13	0.140/<0.0025	
MW-4	11/9/00	111.44		7.97		103.47	**0.16**	<0.025	0.13	0.064/<0.005	
MW-4	10/11/01	111.44		8.11		103.33	**0.039**	0.005	0.03	0.013/<0.001	
MW-4	3/14/02	111.44		7.68		103.76	**0.13**	0.0049	<0.001	<0.003	
MW-4	6/6/02	111.44		7.35		104.09	**0.013**	<0.001	0.0058	0.0025/<0.001	
MW-4	8/30/02	111.44		8.05		103.39	**0.14**	0.013	0.035	0.031/<0.001	
MW-4	12/6/02	111.44		8.53		102.91	**0.17**	0.004	0.0016	0.016/<0.001	
MW-4	5/6/04	111.44					Obstruction in well, not able to collect samples				
MW-4	4/21/05	111.44		8.07		103.37	**0.14**	0.003	<0.001	0.0035	0.0011
MW-4	1/5/09	111.44		7.64		103.80					
MW-4	1/6/09	111.44					Obstruction in well, not able to collect samples				
MW-4	9/1/09	111.44		8.01		103.43					
MW-4	3/4/13	111.44		8.27		103.17					
MW-4	3/25/13	111.44		7.84		103.60					
MW-4	5/23/13	111.44		8.03		103.41					
MW-4	10/2/13	111.44		8.45		102.99					
MW-4	10/3/13	111.44					**0.0356**	0.00041 J	<0.00034	<0.0010	0.00077 J
MW-4	5/7/15	111.44		8.69		102.75	Obstruction in well, not able to collect samples				
MW-5	11/28/90						<0.005	<0.005	<0.005	<0.01	
MW-5	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-5	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-5	1/19/93						BDL	BDL	BDL	BDL	
MW-5	6/17/93	95.44		4.71		90.73	<0.001	<0.001	<0.001	<0.001	
MW-5	11/11/93	95.44		5.09		90.35	<0.001	<0.001	<0.001	<0.001	
MW-5	6/27/94	95.44		5.31		90.13	<0.001	<0.001	<0.001	<0.003	
MW-5	2/16/95	95.44		4.81		90.63	<0.002	<0.002	<0.002	<0.005	
MW-5	7/28/95	95.44		4.99		90.45	<0.0073	<0.002	<0.002	<0.005	
MW-5	3/22/96	95.44		5.28		90.16	<0.002	<0.002	<0.002	<0.005	
MW-5	6/17/96	95.44		4.24		91.20	<0.002	<0.002	<0.002	<0.005	
MW-5	9/25/96	95.44		5.07		90.37	<0.002	<0.002	<0.002	<0.005	
MW-5	4/24/97	95.44		4.40		91.04	<0.002	<0.002	<0.002	<0.005	
MW-5	6/17/97	95.44		4.34		91.10	<0.002	<0.002	<0.002	<0.003	
MW-5	8/27/97	95.44		4.84		90.60	<0.002	<0.002	<0.002	<0.003	
MW-5	11/5/97	108.15		5.21		102.94	<0.001	<0.001	<0.01	<0.003	
MW-5	2/27/98	108.15		4.58		103.57	<0.001	<0.001	<0.001	<0.003	
MW-5	6/10/98	108.15		4.53		103.62	<0.001	<0.001	<0.001	<0.003	
MW-5	10/8/98	108.15		4.78		103.37	<0.001	<0.001	<0.001	<0.003	
MW-5	3/31/99	108.15		4.76		103.39	0.053	0.07	0.11	0.38	
MW-5	6/9/99	108.15		4.65		103.50	<0.001	<0.001	<0.001	<0.003	
MW-5	9/2/99	108.15		5.34		102.81	<0.001	<0.001	<0.001	<0.002	
MW-5	10/28/99	108.15		5.19		102.96	<0.001	<0.001	<0.001	<0.003	
MW-5	2/23/00	108.15		4.92		103.23					
MW-5	5/24/00	108.15		4.34		103.81	<0.001	<0.001	<0.001	<0.003	
MW-5	8/15/00	108.15		4.81		103.34	<0.001	<0.001	<0.001	<0.003	
MW-5	11/9/00	108.15		4.75		103.40	<0.001	<0.001	<0.001	<0.003	
MW-5	10/11/01	108.15		4.80		103.35	<0.001	<0.001	<0.001	<0.003	
MW-5	3/14/02	108.15		4.41		103.74	<0.001	<0.001	<0.001	<0.003	
MW-5	6/6/02	108.15		4.63		103.52	<0.001	<0.001	<0.001	<0.003	
MW-5	8/30/02	108.15		4.75		103.40	<0.001	<0.001	<0.001	<0.003	
MW-5	12/6/02	108.15		5.24		102.91	<0.001	<0.001	<0.001	<0.003	
MW-5	5/6/04						Well destroyed				
MW-6	11/28/90						<0.005	<0.005	<0.005	<0.01	
MW-6	1/19/93						BDL	BDL	BDL	BDL	
MW-6	6/17/93	98.46		7.07		91.39	<0.001	<0.001	<0.001	<0.001	
MW-6	11/11/93	98.46		7.63		90.83	<0.001	<0.001	<0.001	<0.001	
MW-6	6/27/94	98.46		7.57		90.89	<0.001	<0.001	<0.001	<0.003	
MW-6	2/16/95	98.46		7.41		91.05	<0.002	<0.002	<0.002	<0.005	
MW-6	7/28/95	98.46		7.11		91.35	0.0045	<0.002	<0.002	<0.005	
MW-6	3/22/96	98.46		7.89		90.57	<0.002	<0.002	<0.002	<0.005	
MW-6	6/17/96	98.46		6.11		92.35	<0.002	<0.002	<0.002	<0.005	
MW-6	9/25/96	98.46		7.59		90.87	<0.002	<0.002	<0.002	<0.005	
MW-6	4/24/97	98.46		6.87		91.59	<0.002	<0.002	<0.002	<0.005	
MW-6	6/17/97	98.46		6.81		91.65	<0.002	<0.002	<0.002	<0.005	
MW-6	8/27/97	98.46		7.34		91.12	<0.002	<0.002	<0.002	<0.005	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-6	11/5/97	111.06		7.74		103.32	<0.001	<0.001	<0.002	<0.003	
MW-6	2/27/98	111.06		7.03		104.03	<0.001	<0.001	<0.001	<0.003	
MW-6	6/10/98	111.06		6.97		104.09	<0.001	<0.001	<0.001	<0.003	
MW-6	10/8/98	111.06		7.28		103.78	<0.001	<0.001	<0.001	<0.003	
MW-6	3/31/99	111.06		7.14		103.92	<0.001	<0.001	<0.001	<0.003	
MW-6	6/9/99	111.06		6.95		104.11	<0.001	<0.001	<0.001	<0.003	
MW-6	9/2/99	111.06		7.71		103.35	<0.001	<0.001	<0.001	<0.002	
MW-6	10/28/99	111.06		7.64		103.42	<0.001	<0.001	<0.001	<0.002	
MW-6	2/23/00	111.06		7.42		103.64	<0.001	<0.001	<0.001	<0.003	
MW-6	5/24/00	111.06		6.68		104.38	<0.001	<0.001	<0.001	<0.003	
MW-6	8/15/00	111.06		7.25		103.81	**0.58**	**3.1**	0.55	2.49	
MW-6	11/9/00	111.06		7.11		103.95	**0.069**	1	0.35	2.3	
MW-6	10/11/01	111.06	sheen	7.39	sheen	103.67					
MW-6	3/14/02	111.06	sheen	6.93	sheen	104.13	0.0029	0.002	0.015	0.032	
MW-6	6/6/02	111.06	sheen	6.70	sheen	104.36	0.0017	0.0016	0.012	0.0256	
MW-6	8/30/02	111.06	sheen	7.27	sheen	103.79	0.0015	0.0011	0.1	0.0245	
MW-6	12/6/02	111.06	sheen	7.83	sheen	103.23	<0.001	<0.001	0.0041	0.0099	
MW-6	5/6/04	111.06	sheen	7.45	sheen	103.61	<0.001	<0.001	0.001	<0.003	<0.001
MW-6	4/21/05	111.06		7.26		103.80					
MW-6	4/22/05	111.06					<0.001	<0.001	<0.001	<0.003	<0.001
MW-6	12/29/08	111.06		6.67		104.39					
MW-6	1/5/09	111.06		7.06		104.00					
MW-6	1/6/09	111.06					<0.001	<0.001	<0.001	<0.003	<0.001
MW-6	9/1/09	111.06		7.27		103.79					
MW-6	6/22/10	111.06		7.13		103.93					
MW-6	6/30/10	111.06		7.12		103.94					
MW-6	7/6/10	111.06		7.10		103.96					
MW-6	7/13/10	111.06		7.09		103.97					
MW-6	7/20/10	111.06		7.42		103.64					
MW-6	7/27/10	111.06		7.08		103.98					
MW-6	8/18/10	111.06		7.11		103.95					
MW-6	8/24/10	111.06		7.25		103.81					
MW-6	8/31/10	111.06		7.24		103.82					
MW-6	9/21/10	111.06		7.30		103.76					
MW-6	9/30/10	111.06		7.34		103.72					
MW-6	10/12/10	111.06		7.32		103.74					
MW-6	11/3/10	111.06		7.58		103.48					
MW-6	11/15/10	111.06		7.61		103.45					
MW-6	12/2/10	111.06		7.65		103.41					
MW-6	12/10/10	111.06		7.61		103.45					
MW-6	12/22/10	111.06		7.58		103.48					
MW-6	12/27/10	111.06		7.60		103.46					
MW-6	3/2/11	111.06		7.16		103.90					
MW-6	3/7/11	111.06		7.06		104.00					
MW-6	4/14/11	111.06		7.16		103.90	<0.001	<0.001	<0.001	<0.003	<0.001
MW-6	12/3/12	111.06		8.18		102.88					
MW-6	12/6/12	111.06		8.25		102.81					
MW-6	12/10/12	111.06		8.23		102.83					
MW-6	12/14/12	111.06		8.30		102.76					
MW-6	2/18/13	111.06	Filled in with dirt								
MW-6	10/2/13	111.06		7.82		103.24					
MW-6	10/3/13	111.06					<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-6	5/7/15	111.06		7.73		103.33					
MW-7	11/29/90		7.39	7.69	0.30						
MW-7	4/21/05						Well destroyed				
MW-8S	4/1/91	86.88		6.61		80.27	<0.005	<0.005	<0.005	<0.01	
MW-8S	1/27/92						<0.002	<0.003	<0.002	<0.01	
MW-8S	8/24/92						<0.002	<0.003	<0.002	<0.007	
MW-8S	6/17/93	98.29		7.56		90.73	<0.001	<0.001	<0.001	<0.001	
MW-8S	11/11/93	98.29		7.58		90.71	<0.001	<0.001	<0.001	<0.001	
MW-8S	6/27/94	98.29		7.46		90.83	<0.001	<0.001	<0.001	<0.003	
MW-8S	2/16/95	98.29		7.43		90.86	<0.002	<0.002	<0.002	<0.005	
MW-8S	7/28/95	98.29		7.14		91.15	<0.0034	<0.002	<0.002	<0.005	
MW-8S	3/22/96	98.29		7.73		90.56	<0.002	<0.002	<0.002	<0.005	
MW-8S	6/17/96	98.29		6.46		91.83	<0.002	<0.002	<0.002	<0.005	
MW-8S	9/25/96	98.29		7.49		90.80	<0.002	<0.002	<0.002	<0.005	
MW-8S	4/24/97	98.29		6.94		91.35	<0.002	<0.002	<0.002	<0.005	
MW-8S	6/17/97	98.29		6.86		91.43	<0.002	<0.002	<0.002	<0.005	
MW-8S	8/27/97	98.29		7.26		91.03	<0.002	<0.002	<0.002	<0.005	
MW-8S	11/5/97	110.89		7.62		103.27	<0.001	<0.001	<0.001	<0.003	
MW-8S	2/27/98	110.89		7.50		103.39	<0.001	<0.001	<0.001	<0.003	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-8S	6/10/98	110.89		6.95		103.94	<0.001	<0.001	<0.001	<0.001	
MW-8S	10/8/98	110.89		7.19		103.70	<0.001	<0.001	<0.001	<0.003	
MW-8S	3/31/99	110.89		7.12		103.77	<0.001	<0.001	<0.001	<0.003	
MW-8S	6/9/99	110.89		7.00		103.89	<0.001	<0.001	<0.001	<0.003	
MW-8S	9/2/99	110.89		7.61		103.28	<0.001	<0.001	<0.001	<0.002	
MW-8S	10/28/99	110.89		7.56		103.33	<0.001	<0.001	<0.;001	<0.002	
MW-8S	2/23/00	110.89		7.48		103.41	<0.001	0.0024	<0.001	<0.0041	
MW-8S	5/24/00	110.89		6.77		104.12	<0.001	<0.001	<0.001	<0.003	
MW-8S	8/15/00	110.89		7.62		103.27	<0.001	<0.001	<0.001	<0.003	
MW-8S	11/9/00	110.89		7.20		103.69	<0.001	<0.001	<0.001	<0.003	
MW-8S	10/11/01	110.89		7.26		103.63	<0.001	<0.001	<0.001	<0.003	
MW-8S	3/14/02	110.89		6.91		103.98	<0.001	<0.001	<0.001	<0.003	
MW-8S	6/6/02	110.89		6.71		104.18	<0.001	<0.001	<0.001	<0.003	
MW-8S	8/30/02	110.89		7.18		103.71	<0.001	<0.001	<0.001	<0.003	
MW-8S	12/6/02	110.89		7.64		103.25	<0.001	<0.001	<0.001	<0.003	
MW-8S	5/6/04	110.89		7.39		103.50	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8S	4/21/05	110.89		7.22		103.67					
MW-8S	4/22/05	110.89					<0.001	<0.001	<0.001	<0.003	<0.001
MW-8S	1/5/09	110.89		6.97		103.92					
MW-8S	1/6/09	110.89		7.00		103.89	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8S	9/1/09	110.89		7.22		103.67					
MW-8S	4/14/11	110.89		7.15		103.74	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8S	12/3/12	110.89		7.89		103.00					
MW-8S	12/6/12	110.89		7.90		102.99					
MW-8S	12/10/12	110.89		7.87		103.02					
MW-8S	12/14/12	110.89		7.92		102.97					
MW-8S	12/18/12	110.89		7.95		102.94					
MW-8S	12/27/12	110.89		7.90		102.99					
MW-8S	1/7/13	110.89		7.89		103.00					
MW-8S	1/28/13	110.89		5.29		105.60					
MW-8S	2/11/13	110.89		7.29		103.60					
MW-8S	4/4/13	110.89		7.86		103.03					
MW-8S	4/8/13	110.89		7.67		103.22					
MW-8S	4/14/13	110.89		7.17		103.72					
MW-8S	4/22/13	110.89		5.18		105.71					
MW-8S	5/8/13	110.89		7.20		103.69					
MW-8S	5/23/13	110.89		7.22		103.67					
MW-8S	7/3/13	110.89		7.20		103.69					
MW-8S	10/2/13	110.89		7.61		103.28	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-8S	5/7/15	110.89		7.26		103.63					
MW-8D	4/1/91	86.96		6.77		80.19	<0.005	<0.005	<0.005	<0.01	
MW-8D	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-8D	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-8D	11/11/93	98.31		7.50		90.81	<0.001	<0.001	<0.001	<0.001	
MW-8D	6/27/94	98.31		7.94		90.37	<0.001	<0.001	<0.001	<0.003	
MW-8D	2/16/95	98.31		7.80		90.51	<0.002	0.0039	<0.002	<0.005	
MW-8D	7/28/95	98.31		7.65		90.66	0.0023	<0.002	<0.002	0.0054	
MW-8D	3/22/96	98.31		8.06		90.25	<0.002	<0.002	<0.002	<0.005	
MW-8D	6/17/96	98.31		6.81		91.50	<0.002	<0.002	<0.002	<0.005	
MW-8D	9/25/96	98.31		7.55		90.76	<0.002	<0.002	<0.002	<0.005	
MW-8D	4/24/97	98.31		7.33		90.98	<0.002	<0.002	<0.002	<0.005	
MW-8D	6/17/97	98.31		7.32		90.99	<0.002	<0.002	<0.002	<0.005	
MW-8D	8/27/97	98.31		7.85		90.46	<0.002	<0.002	<0.002	<0.005	
MW-8D	11/5/97	111.03		8.06		102.97	<0.001	<0.001	<0.001	<0.003	
MW-8D	2/27/98	111.03		7.00		104.03	<0.001	<0.001	<0.001	<0.003	
MW-8D	6/10/98	111.03		7.36		103.67	<0.001	<0.001	<0.001	<0.003	
MW-8D	10/8/98	111.03		7.67		103.36	<0.001	<0.001	<0.001	<0.003	
MW-8D	3/31/99	111.03		7.40		103.63	<0.001	<0.001	<0.001	<0.003	
MW-8D	6/9/99	111.03		7.10		103.93	<0.001	<0.001	<0.001	<0.003	
MW-8D	9/2/99	111.03		8.02		103.01	<0.001	<0.001	<0.001	<0.002	
MW-8D	10/28/99	111.03		7.95		103.08	<0.001	<0.001	<0.001	<0.002	
MW-8D	2/23/00	111.03		7.92		103.11	<0.001	<0.001	<0.001	<0.003	
MW-8D	5/24/00	111.03		7.01		104.02	<0.001	<0.001	<0.001	<0.003	
MW-8D	8/15/00	111.03		7.62		103.41	<0.001	<0.001	<0.001	<0.003	
MW-8D	11/9/00	111.03		7.72		103.31	<0.001	<0.005	<0.001	<0.003	
MW-8D	10/11/01	111.03		7.67		103.36	<0.001	<0.001	<0.001	<0.003	
MW-8D	3/14/02	111.03		7.28		103.75	<0.001	<0.001	<0.001	<0.003	
MW-8D	6/6/02	111.03		7.04		103.99	<0.001	<0.001	<0.001	<0.003	
MW-8D	8/30/02	111.03		7.51		103.52	<0.001	<0.001	<0.001	<0.003	
MW-8D	12/6/02	111.03		8.00		103.03	<0.001	<0.001	<0.001	<0.003	
MW-8D	5/6/04	111.03		7.70		103.33	<0.001	<0.001	<0.001	<0.003	<0.001

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-8D	4/21/05	111.03		7.53		103.50					
MW-8D	4/22/05	111.03					<0.001	<0.001	<0.001	<0.003	<0.001
MW-8D	1/5/09	111.03		7.14		103.89					
MW-8D	1/6/09	111.03					<0.001	<0.001	<0.001	<0.003	<0.001
MW-8D	9/1/09	111.03		7.43		103.60					
MW-8D	4/14/11	111.03		7.51		103.52	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8D	12/3/12	111.03		8.23		102.80					
MW-8D	12/6/12	111.03		8.25		102.78					
MW-8D	12/10/12	111.03		8.18		102.85					
MW-8D	12/14/12	111.03		8.10		102.93					
MW-8D	12/18/12	111.03		8.09		102.94					
MW-8D	12/27/12	111.03		8.05		102.98					
MW-8D	1/7/13	111.03		8.11		102.92					
MW-8D	1/28/13	111.03		5.56		105.47					
MW-8D	2/11/13	111.03		7.51		103.52					
MW-8D	4/4/13	111.03		8.15		102.88					
MW-8D	4/8/13	111.03		8.09		102.94					
MW-8D	4/15/13	111.03		7.45		103.58					
MW-8D	4/22/13	111.03		5.40		105.63					
MW-8D	5/8/13	111.03		7.48		103.55					
MW-8D	5/23/13	111.03		7.50		103.53					
MW-8D	7/3/13	111.03		7.45		103.58					
MW-8D	10/2/13	111.03		7.88		103.15	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-8D	5/7/15	111.03		7.71		103.32					
MW-9S	4/1/91	86.00		6.12		79.88	<0.005	<0.005	<0.005	<0.01	
MW-9S	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-9S	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-9S	1/19/93						BDL	BDL	BDL	BDL	
MW-9S	6/17/93	97.42		6.79		90.63	<0.001	<0.001	<0.001	<0.001	
MW-9S	11/11/93	97.42		7.04		90.38	<0.001	<0.001	<0.001	<0.001	
MW-9S	6/27/94	97.42		7.03		90.39	<0.001	<0.001	<0.001	<0.003	
MW-9S	2/16/95	97.42		7.04		90.38	<0.002	<0.002	<0.002	<0.005	
MW-9S	7/28/95	97.42		6.82		90.60	<0.002	<0.002	<0.002	<0.005	
MW-9S	3/22/96	97.42		7.32		90.10	<0.002	<0.002	<0.002	<0.005	
MW-9S	6/17/96	97.42		6.35		91.07	<0.002	<0.002	<0.002	<0.005	
MW-9S	9/25/96	97.42		7.10		90.32	<0.002	<0.002	<0.002	<0.005	
MW-9S	4/24/97	97.42		6.72		90.70	<0.002	<0.002	<0.002	<0.005	
MW-9S	6/17/97	97.42		6.74		90.68	<0.002	<0.002	<0.002	<0.005	
MW-9S	8/27/97	97.42		6.90		90.52	<0.002	<0.002	<0.001	<0.005	
MW-9S	11/5/97	110.16		7.21		102.95	<0.001	<0.001	<0.001	<0.003	
MW-9S	2/27/98	110.16		6.86		103.30	<0.001	<0.001	<0.001	<0.003	
MW-9S	6/10/98	110.16		6.67		103.49	<0.001	<0.001	<0.001	<0.003	
MW-9S	10/8/98	110.16		6.83		103.33	<0.001	<0.001	<0.001	<0.003	
MW-9S	3/31/99	110.16		6.90		103.26	<0.001	<0.001	<0.001	<0.003	
MW-9S	6/9/99	110.16		6.76		103.40	<0.001	<0.001	<0.001	<0.003	
MW-9S	9/2/99	110.16		7.26		102.90	<0.001	<0.001	<0.001	<0.003	
MW-9S	10/28/99	110.16		7.20		102.96	<0.001	<0.001	<0.001	<0.003	
MW-9S	2/23/00	110.16		7.90		102.26	<0.001	<0.001	<0.001	<0.003	
MW-9S	5/24/00	110.16		6.64		103.52	<0.001	<0.001	<0.001	<0.003	
MW-9S	8/15/00	110.16		6.93		103.23	<0.001	<0.001	<0.001	<0.003	
MW-9S	11/9/00	110.16		6.75		103.41	<0.001	<0.005	<0.001	<0.003	
MW-9S	10/11/01	110.16		6.96		103.20	<0.001	<0.001	<0.001	<0.003	
MW-9S	3/14/02	110.16		6.73		103.43	<0.001	<0.001	<0.001	<0.003	
MW-9S	6/6/02	110.96		6.52		104.44	<0.001	<0.001	<0.001	<0.003	
MW-9S	8/30/02	110.96		6.92		104.04	<0.001	<0.001	<0.001	<0.003	
MW-9S	12/6/02	110.96		7.27		103.69	<0.001	<0.001	<0.001	<0.003	
MW-9S	5/6/04	110.96		7.12		103.84	<0.001	<0.001	<0.001	<0.003	<0.001
MW-9S	4/21/05	110.96		6.95		104.01					
MW-9S	4/22/05	110.96					<0.001	<0.001	<0.001	<0.003	<0.001
MW-9S	1/6/09	110.96					Obstruction in well, not able to gauge or collect samples				
MW-9S	9/1/09	110.96		6.96		104.00					
MW-9S	4/14/11	110.96		6.95		104.01	<0.001	<0.001	<0.001	<0.003	<0.001
MW-9S	1/28/13	110.96		7.47		103.49					
MW-9S	10/2/13	110.96		7.31		103.65	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-9S	5/7/15	110.96		7.19		103.77					
MW-9D	4/1/91	86.06		6.26		79.80	<0.005	<0.005	<0.005	<0.01	
MW-9D	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-9D	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-9D	1/19/93										
MW-9D	6/17/93										
MW-9D	11/11/93	97.48		7.13		90.35	<0.001	<0.001	<0.001	<0.001	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-9D	6/27/94	97.48		7.13		90.35	<0.001	<0.001	<0.001	<0.003	
MW-9D	2/16/95	97.48		7.15		90.33	<0.002	<0.002	<0.002	<0.005	
MW-9D	7/28/95	97.48		6.92		90.56	<0.002	<0.002	<0.002	<0.005	
MW-9D	3/22/96	97.48		7.42		90.06	<0.002	<0.002	<0.002	<0.005	
MW-9D	6/17/96	97.48		6.44		91.04	<0.002	<0.002	<0.002	<0.005	
MW-9D	9/25/96	97.48		7.19		90.29	<0.002	<0.002	<0.002	<0.005	
MW-9D	4/24/97	97.48		6.84		90.64	<0.002	<0.002	<0.002	<0.005	
MW-9D	6/17/97	97.48		6.79		90.69	<0.002	<0.002	<0.002	<0.005	
MW-9D	8/27/97	97.48		7.02		90.46	<0.002	<0.002	<0.002	<0.005	
MW-9D	11/5/97	110.26		7.32		102.94	<0.001	<0.001	<0.001	<0.003	
MW-9D	2/27/98	110.26		6.74		103.52	<0.001	<0.001	<0.001	<0.003	
MW-9D	6/10/98	110.26		6.79		103.47	<0.001	<0.001	<0.001	<0.003	
MW-9D	10/8/98	110.26		6.93		103.33	<0.001	<0.001	<0.001	<0.003	
MW-9D	3/31/99	110.26		7.01		103.25	<0.001	<0.001	<0.001	<0.003	
MW-9D	6/9/99	110.26		6.87		103.39	<0.001	<0.001	<0.001	<0.003	
MW-9D	9/2/99	110.26		7.41		102.85	<0.001	<0.001	<0.001	<0.003	
MW-9D	10/28/99	110.26		7.31		102.95	<0.001	<0.001	<0.001	<0.003	
MW-9D	2/23/00	110.26		7.10		103.16	<0.001	<0.001	<0.001	<0.003	
MW-9D	5/24/00	110.26		6.74		103.52	<0.001	<0.001	<0.001	<0.003	
MW-9D	8/15/00	110.26		7.07		103.19	<0.001	<0.001	<0.001	<0.003	
MW-9D	11/9/00	110.26		6.90		103.36	<0.001	<0.001	<0.001	<0.003	
MW-9D	10/11/01	110.26		7.05		103.21	<0.001	<0.001	<0.001	<0.003	
MW-9D	3/14/02	110.26		6.83		103.43	<0.001	<0.001	<0.001	<0.003	
MW-9D	6/6/02	110.26		6.62		103.64	<0.001	<0.001	<0.001	<0.003	
MW-9D	8/30/02	110.26		7.04		103.22	<0.001	<0.001	<0.001	<0.003	
MW-9D	12/6/02	110.26		7.38		102.88	<0.001	<0.001	<0.001	<0.003	
MW-9D	5/6/04	110.26		7.21		103.05	<0.001	<0.001	<0.001	<0.003	<0.001
MW-9D	4/21/05	110.26		7.04		103.22					
MW-9D	4/22/05	110.26					<0.001	<0.001	<0.001	<0.003	<0.001
MW-9D	1/5/09	110.26		6.91		103.35					
MW-9D	1/6/09	110.26					<0.001	<0.001	<0.001	<0.003	<0.001
MW-9D	9/1/09	110.26		7.05		103.21					
MW-9D	4/14/11	110.26		7.06		103.20	<0.001	<0.001	<0.001	<0.003	<0.001
MW-9D	1/28/13	110.26		7.58		102.68					
MW-9D	10/2/13	110.26		7.38		102.88	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-9D	5/7/15	110.26		7.25		103.01					
MW-10S	4/1/91	85.93		5.28		80.65	<0.005	<0.005	<0.005	<0.010	
MW-10S	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-10S	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-10S	1/19/93						BDL	BDL	BDL	BDL	
MW-10S	6/17/93	96.38		5.91		90.47	<0.001	<0.001	<0.001	<0.001	
MW-10S	11/11/93	96.38		6.12		90.26	<0.001	<0.001	<0.001	<0.001	
MW-10S	6/27/94	96.38		6.11		90.27	<0.001	<0.001	<0.001	<0.003	
MW-10S	2/16/95	96.38		6.08		90.30	<0.002	<0.002	<0.002	<0.005	
MW-10S	7/28/95	96.38		5.84		90.54	<0.002	<0.002	<0.002	<0.005	
MW-10S	3/22/96	96.38		6.33		90.05	<0.002	<0.002	<0.002	<0.005	
MW-10S	6/17/96	96.38		5.26		91.12	<0.002	<0.002	<0.002	<0.005	
MW-10S	9/25/96	96.38		6.09		90.29	<0.002	<0.002	<0.002	<0.005	
MW-10S	4/24/97	96.38		5.73		90.65	<0.002	<0.002	<0.002	<0.005	
MW-10S	6/17/97	96.38		5.64		90.74	<0.002	<0.002	<0.002	<0.005	
MW-10S	8/27/97	96.38		5.90		90.48	**0.0126**	<0.002	<0.002	<0.005	
MW-10S	11/5/97	108.99		6.19		102.80	<0.001	<0.001	<0.001	<0.003	
MW-10S	2/27/98	108.99		5.77		103.22	<0.001	<0.001	<0.001	<0.003	
MW-10S	6/10/98	108.99		5.66		103.33	<0.001	<0.001	<0.001	<0.003	
MW-10S	10/8/98	108.99		5.83		103.16	<0.001	<0.001	<0.001	<0.003	
MW-10S	3/31/99	108.99		5.95		103.04	<0.001	<0.001	<0.001	<0.003	
MW-10S	6/9/99	108.99		5.76		103.23	<0.001	<0.001	<0.001	<0.003	
MW-10S	9/2/99	108.99		6.21		102.78	<0.001	<0.001	<0.001	<0.003	
MW-10S	10/28/99	108.99		6.30		102.69	<0.001	<0.001	<0.001	<0.003	
MW-10S	2/23/00	108.99		6.06		102.93	<0.001	<0.001	<0.001	<0.003	
MW-10S	5/24/00	108.99		5.68		103.31	<0.001	<0.001	<0.001	<0.003	
MW-10S	8/15/00	108.99		5.94		103.05	<0.001	<0.001	<0.001	<0.003	
MW-10S	11/9/00	108.99		5.90		103.09	<0.001	<0.005	<0.001	<0.003	
MW-10S	10/11/01	108.99		5.94		103.05	<0.001	<0.001	<0.001	<0.003	
MW-10S	3/14/02	108.99		5.79		103.20	<0.001	<0.001	<0.001	<0.003	
MW-10S	6/6/02	108.99		5.55		103.44	<0.001	<0.001	<0.001	<0.003	
MW-10S	8/30/02	108.99		5.91		103.08	<0.001	<0.001	<0.001	<0.003	
MW-10S	12/6/02	108.99		6.24		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10S	5/6/04	108.99		6.15		102.84	<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	4/21/05	108.99		5.97		103.02					
MW-10S	4/22/05	108.99					<0.001	<0.001	<0.001	<0.003	<0.001

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-10S	1/5/09	108.99		5.69		103.30					
MW-10S	1/6/09	108.99				108.99	<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	1/10/11	108.99		6.07		102.92					
MW-10S	4/14/11	108.99		5.87		103.12	<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	1/28/13	108.99		6.33		102.66					
MW-10S	10/2/13	108.99		6.20		102.79	<0.00034	<0.00034	<0.00034	<0.0010	0.0025
MW-10S	5/7/15	108.99		5.97		103.02					
MW-10D	4/1/91	85.06		5.62		79.44	<0.005	<0.005	<0.005	<0.010	
MW-10D	1/27/92						0.005	<0.002	<0.002	<0.005	
MW-10D	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-10D	11/11/93	96.31		6.21		90.10	<0.001	<0.001	<0.001	<0.001	
MW-10D	6/27/94	96.31		6.23		90.08	<0.001	<0.001	<0.001	<0.003	
MW-10D	2/16/95	96.31		6.15		90.16	<0.002	<0.002	<0.002	<0.005	
MW-10D	7/28/95	96.31		5.90		90.41	<0.002	<0.002	<0.002	<0.005	
MW-10D	3/22/96	96.31		6.42		89.89	<0.002	<0.002	<0.002	<0.005	
MW-10D	6/17/96	96.31		5.27		91.04	<0.002	<0.002	<0.002	<0.005	
MW-10D	9/25/96	96.31		6.17		90.14	<0.002	<0.002	<0.002	<0.005	
MW-10D	4/24/97	96.31		5.77		90.54	<0.002	<0.002	<0.002	<0.005	
MW-10D	6/17/97	96.31		5.74		90.57	<0.002	<0.002	<0.002	<0.005	
MW-10D	8/27/97	96.31		6.83		89.48	<0.002	<0.002	<0.002	<0.005	
MW-10D	11/5/97	108.93		6.13		102.80	<0.001	<0.001	<0.001	<0.003	
MW-10D	2/27/98	108.93		5.71		103.22	<0.001	<0.001	<0.001	<0.003	
MW-10D	6/10/98	108.93		5.61		103.32	<0.001	<0.001	<0.001	<0.003	
MW-10D	10/8/98	108.93		6.79		102.14	<0.001	<0.001	<0.001	<0.003	
MW-10D	3/31/99	108.93		5.90		103.03	<0.001	<0.001	<0.001	<0.003	
MW-10D	6/9/99	108.93		5.81		103.12	<0.001	<0.001	<0.001	<0.003	
MW-10D	9/2/99	108.93		6.18		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10D	10/28/99	108.93		6.18		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10D	2/23/00	108.93		6.10		102.83	<0.001	<0.001	<0.001	<0.003	
MW-10D	5/24/00	108.93		5.55		103.38	<0.001	<0.001	<0.001	<0.003	
MW-10D	8/15/00	108.93		5.91		103.02	<0.001	<0.001	<0.001	<0.003	
MW-10D	11/9/00	108.93		5.80		103.13	<0.001	<0.005	<0.001	<0.003	
MW-10D	10/11/01	108.93		5.90		103.03	<0.001	<0.001	<0.001	<0.003	
MW-10D	3/14/02	108.93		5.74		103.19	<0.001	<0.001	<0.001	<0.003	
MW-10D	6/6/02	108.93		5.52		103.41	<0.001	<0.001	<0.001	<0.003	
MW-10D	8/30/02	108.93		5.85		103.08	<0.001	<0.001	<0.001	<0.003	
MW-10D	12/6/02	108.93		6.22		102.71	<0.001	<0.001	<0.001	<0.003	
MW-10D	5/6/04	108.93		6.09		102.84	<0.001	<0.001	<0.001	<0.003	0.0055
MW-10D	4/21/05	108.93		5.94		102.99					
MW-10D	4/22/05	108.93					<0.001	<0.001	<0.001	<0.003	0.0041
MW-10D	1/5/09	108.93		5.62		103.31					
MW-10D	1/6/09	108.93					<0.001	<0.001	<0.001	<0.003	<0.001
MW-10D	1/10/11	108.93		6.08		102.85					
MW-10D	4/14/11	108.93		5.83		103.10	<0.001	<0.001	<0.001	<0.003	0.0035
MW-10D	1/28/13	108.93		6.30		102.63					
MW-10D	10/2/13	108.93		6.23		102.70	<0.00034	<0.00034	<0.00034	<0.0010	0.0024
MW-10D	5/7/15	108.93		6.09		102.84					
MW-11S	4/1/91	85.82		5.52		80.30	**0.15**	<0.005	<0.005	0.011	
MW-11S	1/27/92						**3.6**	0.021	0.18	4.491	
MW-11S	8/24/92						**0.006**	0.029	0.006	0.81	
MW-11S	1/19/93						**1.3**	0.007	0.03	0.1	
MW-11S	6/17/93	96.99		6.01		90.98	**0.14**	<0.001	<0.001	<0.001	
MW-11S	11/11/93	96.99		6.80		90.19	**1.35**	<0.001	<0.001	<0.001	
MW-11S	6/27/94	96.99		6.84		90.15	**0.785**	0.0094	0.173	0.282	
MW-11S	2/16/95	96.99		6.53		90.46	**1.55**	0.0248	0.163	0.239	
MW-11S	7/28/95	96.99		6.42		90.57	**0.954**	0.0545	0.316	0.29	
MW-11S	6/17/96	96.99		4.43		92.56	<0.002	<0.002	<0.002	<0.005	
MW-11S	9/25/96	96.99		6.77		90.22	**1.76**	0.0443	0.519	1.22	
MW-11S	4/24/97	96.99		6.12		90.87	**0.384**	0.0087	0.134	2.1	
MW-11S	6/17/97	96.99		6.11		90.88	**3.94**	**1.02**	**0.734**	2.06	
MW-11S	8/27/97	96.99		6.58		90.41	**1.79**	0.586	0.657	1.2	
MW-11S	11/5/97	109.54		6.85		102.69	1	0.05	0.37	0.023	
MW-11S	2/27/98	109.54		6.58		102.96	**0.19**	<0.005	0.033	0.11	
MW-11S	6/10/98	109.54		6.29		103.25	**0.8**	0.014	0.12	<0.001	
MW-11S	10/8/98	109.54		6.49		103.05	**0.91**	0.03	0.4	0.76	
MW-11S	3/31/99	109.54		6.42		103.12	**0.28**	<0.002	0.04	0.012/<0.002	
MW-11S	6/9/99	109.54		6.40		103.14	**3.7**	**6.7**	**0.73**	2.77	
MW-11S	9/2/99	109.54		7.16		102.38	**1.4**	0.029	0.43	1.34	
MW-11S	10/28/99	109.54		6.84		102.70	**0.78**	0.038	0.31	0.889	
MW-11S	2/23/00	109.54		6.25		103.29	0.0028	<0.001	<0.001	<0.003	
MW-11S	5/24/00	109.54		6.05		103.49	**0.018**	<0.001	0.0011	<0.003	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-11S	8/15/00	109.54		6.62		102.92	**1.3**	0.051	0.42	1.116	
MW-11S	11/9/00	109.54		6.35		103.19	**0.37**	<0.025	0.03	0.097/<0.005	
MW-11S	10/11/01	109.54		6.56		102.98	**0.78**	<0.021	0.44	0.95/<0.01	
MW-11S	3/14/02	109.54		5.89		103.65	**0.024**	<0.001	<0.001	<0.003	
MW-11S	6/6/02	109.54		5.43		104.11	**0.073**	0.0036	0.012	0.0077/<0.001	
MW-11S	8/30/02	109.54		6.52		103.02	**1.2**	0.051	0.55	0.86/<0.01	
MW-11S	12/6/02	109.54		6.88		102.66	**2.1**	0.045	0.67	0.26/<0.02	
MW-11S	5/6/04	109.54		6.59		102.95	**0.059**	<0.001	<0.001	<0.003	<0.001
MW-11S	4/21/05	109.54		6.38		103.16	**0.012**	<0.001	<0.001	<0.003	<0.001
MW-11S	1/6/09	109.54		5.65		103.89	<0.001	<0.001	<0.001	<0.003	<0.001
MW-11S	9/1/09	109.54		6.45		103.09					
MW-11S	1/10/11	109.54		6.63		102.91					
MW-11S	4/14/11	109.54		5.99		103.55	<0.001	<0.001	<0.001	<0.003	<0.001
MW-11S	1/28/13	109.54		6.95		102.59					
MW-11S	10/2/13	109.54		6.86		102.68	**0.462**	0.279	0.522	1.720	0.0129
MW-11S	5/7/15	109.54		6.55		102.99	**0.0027**	<0.00039	<0.00039	<0.0012	<0.00048
MW-11D	4/1/91	85.90		6.57		79.33	<0.005	<0.005	<0.005	<0.01	
MW-11D	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-11D	8/24/92						<0.004	<0.002	<0.002	<0.005	
MW-11D	11/11/93	97.02		6.81		90.21	<0.001	<0.001	<0.001	<0.001	
MW-11D	6/27/94	97.02		6.95		90.07	**0.248**	0.0028	0.0637	0.135	
MW-11D	2/16/95	97.02		6.70		90.32	**0.433**	0.0058	0.0407	0.0446	
MW-11D	7/28/95	97.02		6.49		90.53	**0.94**	0.0386	0.219	0.215	
MW-11D	3/22/96	97.02		7.07		89.95	**0.424**	0.0075	0.0467	0.0191	
MW-11D	6/17/96	97.02		6.12		90.90	**0.0482**	<0.002	<0.002	<0.005	
MW-11D	9/25/96	97.02		6.89		90.13	**0.392**	0.0077	0.104	0.204	
MW-11D	4/24/97	97.02		6.31		90.71	**0.339**	0.131	0.0807	0.184	
MW-11D	6/17/97	97.02		6.32		90.70	**1.56**	0.368	0.278	0.956	
MW-11D	8/27/97	97.02		7.84		89.18	**0.311**	0.0167	0.0837	0.224	
MW-11D	11/5/97	109.58		7.13		102.45	**0.17**	0.0045	0.09	0.29	
MW-11D	2/27/98	109.58		6.23		103.35	**0.024**	<0.001	<0.001	<0.003	
MW-11D	6/10/98	109.58		6.52		103.06	**0.02**	<0.001	<0.001	<0.003	
MW-11D	10/8/98	109.58		6.76		102.82	**0.12**	0.004	0.038	0.044	
MW-11D	3/31/99	109.58		6.90		102.68	0.0034	<0.001	<0.001	<0.003	
MW-11D	6/9/99	109.58		6.64		102.94	**0.75**	**1.4**	0.14	0.53	
MW-11D	9/2/99	109.58		7.22		102.36	**0.082**	0.0048	0.037	0.1225	
MW-11D	10/28/99	109.58		7.10		102.48	**0.077**	0.0023	0.035	0.1	
MW-11D	2/23/00	109.58		6.91		102.67	**0.16**	0.0012	0.0098	0.1	
MW-11D	5/24/00	109.58		6.49		103.09	0.0011	<0.001	<0.001	<0.003	
MW-11D	8/15/00	109.58		7.04		102.54	**0.014**	<0.001	0.0053	0.011	
MW-11D	11/9/00	109.58		6.95		102.63	**0.26**	<0.012	0.027	0.059	
MW-11D	10/11/01	109.58		6.83		102.75	**0.017**	<0.001	0.0035	<0.003	
MW-11D	3/14/02	109.58		6.42		103.16	<0.001	<0.001	<0.001	<0.003	
MW-11D	6/6/02	109.58		6.33		103.25	<0.001	<0.001	<0.001	<0.003	
MW-11D	8/30/02	109.58		6.74		102.84	**0.035**	<0.001	0.0012	<0.003	
MW-11D	12/6/02	109.58		7.09		102.49	0.001	<0.001	<0.001	<0.003	
MW-11D	5/6/04	109.58		6.80		102.78	**0.008**	<0.001	<0.001	<0.003	0.0025
MW-11D	4/21/05	109.58		6.63		102.95	<0.001	<0.001	<0.001	<0.003	<0.001
MW-11D	1/6/09	109.58		6.26		103.32	<0.001	<0.001	<0.001	<0.003	0.0017
MW-11D	9/1/09	109.58		6.47		103.11					
MW-11D	1/10/11	109.58		6.76		102.82					
MW-11D	4/14/11	109.58		6.42		103.16	<0.001	<0.001	<0.001	<0.003	<0.001
MW-11D	1/28/13	109.58		7.10		102.48					
MW-11D	10/2/13	109.58		6.93		102.65	0.0034	0.0026	0.0014	0.0039	<0.00037
MW-11D	5/7/15	109.58		6.87		102.71					
MW-12S	4/1/91	81.23		2.21		79.02	**1.8**	0.14	0.11	0.4	
MW-12S	1/27/92						**0.041**	0.002	0.013	0.054	
MW-12S	8/24/92						**0.2**	0.002	0.004	0.005	
MW-12S	1/19/93						BDL	BDL	BDL	BDL	
MW-12S	6/17/93	92.64		2.60		90.04	0.003	<0.001	<0.001	<0.001	
MW-12S	11/11/93	92.64		2.45		90.19	<0.001	<0.001	<0.001	<0.001	
MW-12S	6/27/94	92.64		2.52		90.12	**0.137**	<0.001	<0.001	<0.003	
MW-12S	2/16/95	92.64		2.25		90.39	**0.0902**	<0.002	<0.002	<0.005	
MW-12S	7/28/95	92.64		2.10		90.54	**0.0137**	<0.002	<0.002	<0.005	
MW-12S	3/22/96	92.64		2.62		90.02	<0.002	<0.002	<0.002	<0.005	
MW-12S	6/17/96	92.64		1.50		91.14	<0.002	<0.002	<0.002	<0.005	
MW-12S	9/25/96	92.64		2.36		90.28	<0.002	<0.002	<0.002	<0.005	
MW-12S	4/24/97	92.64		1.89		90.75	<0.002	<0.002	<0.002	<0.005	
MW-12S	6/17/97	92.64		1.76		90.88	<0.002	<0.002	<0.002	<0.005	
MW-12S	8/27/97	92.64		2.24		90.40	<0.002	<0.002	<0.002	<0.005	
MW-12S	11/5/97	105.19		2.50		102.69	0.0026	<0.001	<0.001	<0.003	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-12S	2/27/98	105.19		2.56		102.63	<0.001	<0.001	<0.001	<0.003	
MW-12S	6/10/98	105.19		1.90		103.29	<0.001	<0.001	<0.001	<0.003	
MW-12S	10/8/98	105.19		2.17		103.02	<0.001	<0.001	<0.001	<0.003	
MW-12S	3/31/99	105.19		2.29		102.90	<0.001	<0.001	<0.001	<0.003	
MW-12S	6/9/99	105.19		2.13		103.06	**0.07**	<0.001	<0.001	<0.003	
MW-12S	9/2/99	105.19		3.75		101.44	<0.001	<0.001	<0.001	<0.002	
MW-12S	10/28/99	105.19		2.58		102.61	**0.16**	0.0045	0.0043	0.005	
MW-12S	2/23/00	105.19		2.33		102.86	**0.054**	0.0021	0.011	0.012	
MW-12S	5/24/00	105.19		1.92		103.27	**0.13**	0.0034	0.015	0.017	
MW-12S	8/15/00	105.19		2.23		102.96	**0.24**	0.016	0.053	0.059	
MW-12S	11/9/00	105.19		2.15		103.04	**0.27**	0.037	0.12	0.2133	
MW-12S	10/11/01	105.19		2.32		102.87	**0.11**	0.013	0.12	0.1224	
MW-12S	3/14/02	105.19		1.98		103.21	**0.18**	0.0075	0.041	0.121	
MW-12S	6/6/02	105.19		1.80		103.39	**0.18**	0.023	0.042	0.0061	
MW-12S	8/30/02	105.19		2.20		102.99	**0.2**	0.027	0.077	0.1817	
MW-12S	12/6/02	105.19		2.58		102.61	**0.051**	0.006	0.017	0.079	
MW-12S	5/6/04	105.19		2.40		102.79	**0.043**	0.0035	<0.001	0.022	0.0012
MW-12S	4/21/05	105.19		2.20		102.99	**0.027**	0.0014	<0.001	0.0097	0.0021
MW-12S	12/29/08	105.19		1.00		104.19					
MW-12S	1/5/09	105.19		1.84		103.35					
MW-12S	1/6/09	105.19					<0.001	<0.001	<0.001	<0.003	<0.001
MW-12S	9/1/09	105.19		2.16		103.03					
MW-12S	4/14/11	105.19		2.01		103.18	<0.001	<0.001	<0.001	<0.003	<0.001
MW-12S	1/28/13	105.19		2.68		102.51					
MW-12S	10/2/13	105.19		2.50		102.69	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-12S	5/7/15	105.19		2.40		102.79					
MW-12D	4/1/91	81.36		2.21		79.15	**0.074**	<0.005	<0.005	<0.01	
MW-12D	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-12D	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-12D	11/11/93	92.79		2.57		90.22	<0.001	<0.001	<0.001	<0.001	
MW-12D	6/27/94	92.79		3.38		89.41	<0.001	<0.001	<0.001	<0.003	
MW-12D	2/16/95	92.79		2.85		89.94	<0.002	<0.002	<0.002	<0.005	
MW-12D	7/28/95	92.79		2.60		90.19	<0.002	<0.002	<0.002	<0.005	
MW-12D	3/22/96	92.79		3.15		89.64	<0.002	<0.002	<0.002	<0.005	
MW-12D	6/17/96	92.79		2.08		90.71	<0.002	<0.002	<0.002	<0.005	
MW-12D	9/25/96	92.79		2.93		89.86	<0.002	<0.002	<0.002	<0.005	
MW-12D	4/24/97	92.79		2.30		90.49	<0.002	<0.002	<0.002	<0.005	
MW-12D	6/17/97	92.79		2.29		90.50	<0.002	<0.002	<0.002	<0.005	
MW-12D	8/27/97	92.79		2.75		90.04	<0.002	<0.002	<0.002	<0.005	
MW-12D	11/5/97	105.34		3.13		102.21	<0.001	<0.001	<0.001	<0.003	
MW-12D	2/27/98	105.34		1.97		103.37	<0.001	<0.001	<0.001	<0.003	
MW-12D	6/10/98	105.34		2.47		102.87	<0.001	<0.001	<0.001	<0.003	
MW-12D	10/8/98	105.34		2.86		102.48	<0.001	<0.001	<0.001	<0.003	
MW-12D	3/31/99	105.34		2.77		102.57	<0.001	<0.001	<0.001	<0.003	
MW-12D	6/9/99	105.34		2.68		102.66	<0.001	<0.001	<0.001	<0.003	
MW-12D	9/2/99	105.34		3.31		102.03	<0.001	<0.001	<0.001	<0.002	
MW-12D	10/28/99	105.34		3.20		102.14	<0.001	<0.001	<0.001	<0.002	
MW-12D	2/23/00	105.34		3.00		102.34	<0.001	<0.001	<0.001	<0.003	
MW-12D	5/24/00	105.34		2.49		102.85	<0.001	<0.001	<0.001	<0.003	
MW-12D	8/15/00	105.34		2.82		102.52	<0.001	<0.001	<0.001	<0.003	
MW-12D	11/9/00	105.34		2.75		102.59	<0.001	<0.001	<0.001	<0.003	
MW-12D	10/11/01	105.34		2.82		102.52	<0.001	<0.001	<0.001	<0.003	
MW-12D	3/14/02	105.34		2.50		102.84	<0.001	<0.001	<0.001	<0.003	
MW-12D	6/6/02	105.34		2.34		103.00	<0.001	<0.001	<0.001	<0.003	
MW-12D	8/30/02	105.34		2.81		102.53	<0.001	<0.001	<0.001	<0.003	
MW-12D	12/6/02	105.34		3.20		102.14	<0.001	<0.001	<0.001	<0.003	
MW-12D	5/6/04	105.34		2.96		102.38	<0.001	<0.001	<0.001	<0.003	<0.001
MW-12D	4/21/05	105.34		3.73		101.61	<0.001	<0.001	<0.001	<0.03	<0.001
MW-12D	1/5/09	105.34		2.31		103.03					
MW-12D	1/6/09	105.34					<0.001	<0.001	<0.001	<0.003	<0.001
MW-12D	9/1/09	105.34		2.58		102.76					
MW-12D	4/14/11	105.34		2.47		102.87	<0.001	<0.001	<0.001	<0.003	<0.001
MW-12D	1/28/13	105.34		3.35		101.99					
MW-12D	10/2/13	105.34		3.08		102.26	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-12D	5/7/15	105.34		2.90		102.44					
MW-13	4/1/91	85.19		5.24		79.95	**2.6**	0.3	0.19	0.56	
MW-13	2/19/92						**1.9**	0.01	0.14	0.72	
MW-13	8/24/92						**14**	**2.1**	**0.85**	**13**	
MW-13	1/19/93						**0.009**	BDL	BDL	0.005	
MW-13	6/17/93	96.50		6.00		90.50	<0.001	<0.001	<0.001	<0.001	
MW-13	11/11/93	96.50		6.28		90.22	**0.81**	0.054	0.346	4.56	

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-13	6/27/94	96.50		6.29		90.21	**0.142**	0.0037	0.119	0.413	
MW-13	2/16/95	96.50		6.20		90.30	**0.0475**	<0.002	0.0202	0.129	
MW-13	7/28/95	96.50		6.01		90.49	**0.41**	0.0051	0.56	2.548	
MW-13	3/22/96	96.50		6.53		89.97	**0.212**	0.0092	0.0901	0.973	
MW-13	6/17/96	96.50		3.78		92.72	<0.002	<0.002	<0.002	<0.005	
MW-13	9/25/96	96.50		6.29		90.21	**0.109**	0.0261	**0.911**	9.6	
MW-13	4/24/97	96.50		5.80		90.70	<0.002	<0.002	<0.002	<0.005	
MW-13	6/17/97	96.50		5.59		90.91	**0.0195**	<0.002	0.0201	0.107	
MW-13	8/27/97	96.50		6.17		90.33	**1.4**	0.38	0.361	3.65	
MW-13	11/5/97	109.12		6.38		102.74	**0.16**	<0.025	0.67	5.8	
MW-13	2/27/98	109.12		5.51		103.61	<0.001	<0.001	<0.001	<0.003	
MW-13	6/10/98	109.12		5.78		103.34	**0.38**	<0.025	0.67	3.4	
MW-13	10/8/98	109.12		6.02		103.10	**<0.025**	<0.025	0.28	3.5	
MW-13	3/31/99	109.12		6.17		102.95	**0.027**	<0.0025	0.11	0.81	
MW-13	6/9/99	109.12		6.07		103.05	**0.008**	0.013	0.13	0.903.3	
MW-13	9/2/99	109.12		6.64		102.48	**0.23**	<0.025	0.12	0.72	
MW-13	10/28/99	109.12		6.45		102.67	**0.2**	<0.01	0.11	0.718	
MW-13	2/23/00	109.12		5.50		103.62					
MW-13	5/24/00	109.12		5.91		103.21	**0.0073**	<0.001	0.0019	0.021	
MW-13	8/15/00	109.12		6.24		102.88	**0.038**	<0.005	0.3	0.5453	
MW-13	11/9/00	109.12		6.08		103.04	<0.001	<0.005	0.0014	<0.003	
MW-13	10/11/01	109.12		6.21		102.91	**0.05**	0.0023	0.069	0.0122	
MW-13	3/14/02	109.12		5.89		103.23	<0.001	<0.001	<0.001	<0.003	
MW-13	6/6/02	109.12		5.06		104.06	**0.0077**	<0.001	0.009	<0.003	
MW-13	8/30/02	109.12		6.15		102.97	**0.013**	0.0018	0.03	0.0024	
MW-13	12/6/02	109.12		6.53		102.59	**0.044**	<0.01	0.085	<0.03	
MW-13	5/6/04	109.12		6.37		102.75	0.0039	<0.001	0.013	<0.003	<0.001
MW-13	4/21/05	109.12		6.27		102.85					
MW-13	4/22/05	109.12					**0.0077**	<0.001	0.039	0.013	<0.001
MW-13	12/29/08	109.12		5.00		104.12					
MW-13	1/5/09	109.12		5.88		103.24					
MW-13	1/6/09	109.12					<0.001	<0.001	<0.001	<0.003	<0.001
MW-13	4/14/11	109.12		6.18		102.94	**0.0345**	<0.001	<0.001	<0.003	<0.001
MW-13	1/28/13	109.12		6.49		102.63					
MW-13	10/2/13	109.12		6.68		102.44	**3.910**	<0.0172	<0.0170	<0.0514	<0.0186
MW-13	5/7/15	109.12		6.25		102.87	0.00072 J	0.0019	<0.00039	<0.0012	<0.00048
MW-14	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-14	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-14	1/19/93						BDL	BDL	BDL	BDL	
MW-14	6/17/93	89.62		0.00		89.62	<0.001	<0.001	<0.001	<0.001	
MW-14	11/11/93	89.62		0.00		89.62	<0.001	<0.001	<0.001	<0.001	
MW-14	6/27/94	89.62		0.00		89.62	<0.001	<0.001	<0.001	<0.003	
MW-14	2/16/95	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	7/28/95	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	6/17/96	89.62		0.03		89.59	<0.002	<0.002	<0.002	<0.005	
MW-14	9/25/96	89.62		0.05		89.57	<0.002	<0.002	<0.002	<0.005	
MW-14	4/24/97	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	6/17/97	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	8/27/97	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	11/5/97	99.46		0.79		98.67	<0.001	<0.001	<0.001	<0.003	
MW-14	2/27/98	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	6/10/98	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	10/8/98	99.46		0.09		99.37	<0.001	<0.001	<0.001	<0.003	
MW-14	3/31/99	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	6/9/99	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	9/2/99	99.46		0.19		99.27	<0.001	<0.001	<0.001	<0.003	
MW-14	10/28/99	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	2/23/00	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	5/24/00			0.00			<0.001	<0.001	<0.001	<0.003	
MW-14	8/15/00			0.00			<0.001	<0.001	<0.001	<0.003	
MW-14	11/9/00			0.00			<0.001	<0.001	<0.001	<0.003	
MW-14	10/11/01	99.16		0.02		99.14	<0.001	<0.001	<0.001	<0.003	
MW-14	3/14/02	99.16		0.02		99.14	<0.001	<0.001	<0.001	<0.003	
MW-14	6/6/02	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	
MW-14	8/30/02	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	
MW-14	12/6/02	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	
MW-14	5/6/04	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	<0.001
MW-14	4/21/05	99.16		0.00		99.16					
MW-14	4/22/05	99.16					<0.001	<0.001	<0.001	<0.003	<0.001
MW-14	1/5/09	99.16		0.30		98.86					
MW-14	1/6/09	99.16					<0.001	<0.001	<0.001	<0.003	<0.001

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-14	4/14/11	99.16		0.24		98.92	<0.001	<0.001	<0.001	<0.003	<0.001
MW-14	10/2/13	99.16		0.10		99.06	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-14	5/7/15	99.16		0.00		99.16	**0.506**	0.235	0.367	2.220	<0.0048
MW-15	1/27/92						0.005	<0.002	<0.002	<0.005	
MW-15	8/24/92						**0.03**	<0.002	<0.002	<0.005	
MW-15	1/19/93						**0.24**	BDL	BDL	BDL	
MW-15	6/17/93	88.40		0.00		88.40	**0.85**	<0.001	<0.001	<0.001	
MW-15	11/11/93	88.40		0.56		87.84	**1.03**	<0.001	<0.001	<0.001	
MW-15	6/27/94	88.40		0.50		87.90	**2.04**	<0.001	<0.001	<0.003	
MW-15	2/16/95	88.40		0.85		87.55	**1.82**	<0.002	<0.002	<0.005	
MW-15	7/28/95	88.40		0.20		88.20	**3.55**	<0.002	<0.002	<0.005	
MW-15	3/22/96	88.40		0.74		87.66	**10.5**	<0.002	<0.002	<0.005	
MW-15	6/17/96	88.40		0.00		88.40	**9.75**	<0.002	<0.002	<0.005	
MW-15	9/25/96	88.40		0.75		87.65	**7.6**	<0.002	<0.002	<0.005	
MW-15	4/24/97	88.40		0.16		88.24	**10.7**	0.0084	<0.002	<0.005	
MW-15	6/17/97	88.40		0.00		88.40	**9.59**	0.0381	<0.005	<0.005	
MW-15	8/27/97	88.40		0.40		88.00	**8.32**	<0.05	<0.05	<0.125	
MW-15	11/5/97	100.25		0.68		99.57	**8.2**	<0.05	<0.05	<0.15	
MW-15	2/27/98	100.25		0.22		100.03	**7.4**	<0.1	<0.1	<0.3	
MW-15	6/10/98	100.25		0.18		100.07	**6.9**	<0.1	<0.1	<0.3	
MW-15	10/8/98	100.25		0.43		99.82	**5.4**	<0.05	<0.05	<0.15	
MW-15	3/31/99	100.25		1.30		98.95	**4.6**	<0.025	<0.025	<0.075	
MW-15	6/9/99	100.25		1.20		99.05	**4.2**	0.032	<0.025	<0.075	
MW-15	9/2/99	100.25		1.55		98.70	**2.9**	0.036	0.034	0.079	
MW-15	10/28/99	100.25		1.44		98.81	**2.5**	0.049	0.078	0.165	
MW-15	2/23/00	100.25		0.90		99.35	**1.2**	0.045	0.091	0.2	
MW-15	5/24/00	100.25		0.71		99.54	**0.97**	0.034	0.11	0.255	
MW-15	8/15/00	100.25		0.86		99.39	**0.58**	0.024	0.12	0.264	
MW-15	11/9/00	100.25		0.75		99.50	**0.13**	0.0074	0.027	0.055	
MW-15	10/11/01	100.25		0.84		99.41	**0.2**	0.012	0.062	0.1125	
MW-15	3/14/02	100.25		0.62		99.63	**0.21**	0.011	0.055	0.0993	
MW-15	6/6/02	100.25		0.47		99.78	**0.17**	0.0055	0.033	0.0688	
MW-15	8/30/02	100.25		0.83		99.42	**0.22**	0.0073	0.04	0.0628	
MW-15	12/6/02	100.25		1.11		99.14	**0.24**	0.0062	0.031	0.0394	
MW-15	5/6/04	100.25		0.95		99.30	**0.12**	0.004	0.0023	0.0063	<0.001
MW-15	4/21/05	100.25		0.79		99.46					
MW-15	4/22/05	100.25					**0.076**	0.0024	<0.001	0.0045	<0.001
MW-15	1/5/09	100.25		0.40		99.85					
MW-15	1/6/09	100.25					**0.0739**	0.004	<0.001	0.0135	0.004
MW-15	4/14/11	100.25		0.43		99.82	**0.411**	0.0121	<0.001	0.0284	0.0023
MW-15	10/2/13	100.25		0.78		99.47	**0.549**	0.0121	<0.0017	0.0156	0.0019 J
MW-15	5/7/15	100.25		0.58		99.67	**1.530**	0.0126	<0.0039	0.0272 J	<0.0048
MW-16	1/27/92						<0.002	<0.002	<0.002	<0.005	
MW-16	8/24/92						<0.002	<0.002	<0.002	<0.005	
MW-16	1/19/93						BDL	BDL	BDL	BDL	
MW-16	6/17/93	91.82		2.23		89.59	<0.001	<0.001	<0.001	<0.001	
MW-16	11/11/93	91.82		2.47		89.35	<0.001	<0.001	<0.001	<0.001	
MW-16	6/27/94	91.82		2.59		89.23	<0.001	<0.001	<0.001	<0.003	
MW-16	2/16/95	91.82		2.60		89.22	**0.0103**	<0.002	<0.002	<0.005	
MW-16	7/28/95	91.82		2.44		89.38	**0.182**	<0.002	<0.002	<0.005	
MW-16	3/22/96	91.82		3.14		88.68	**1.83**	<0.002	<0.002	<0.005	
MW-16	6/17/96	91.82		1.63		90.19	**2.08**	<0.002	<0.002	<0.005	
MW-16	9/25/96	91.82		2.38		89.44	**2.19**	<0.002	<0.002	<0.005	
MW-16	4/24/97	91.82		7.95		83.87	**3.53**	<0.002	<0.002	<0.005	
MW-16	6/17/97	91.82		4.49		87.33	**3.6**	<0.002	<0.002	<0.005	
MW-16	8/27/97	91.82		5.51		86.31	**4.17**	0.219	<0.05	0.197	
MW-16	11/5/97	101.72		7.75		93.97	**3.9**	<0.025	<0.025	<0.075	
MW-16	2/27/98	101.72		6.28		95.44	**4.2**	<0.050	<0.05	<0.15	
MW-16	6/10/98	101.72		2.36		99.36	**3.3**	<0.050	<0.05	<0.15	
MW-16	10/8/98	101.72		2.55		99.17	**5.1**	<0.025	<0.025	<0.075	
MW-16	3/31/99	101.72		3.47		98.25	**4**	<0.025	<0.025	<0.075	
MW-16	6/9/99	101.72		3.30		98.42	**4.6**	<0.050	<0.05	<0.15	
MW-16	9/2/99	101.72		3.75		97.97	**4.4**	<0.050	<0.05	<0.1	
MW-16	10/28/99	101.72		3.50		98.22	**4.4**	<0.020	<0.02	<0.04	
MW-16	2/23/00	101.72		3.05		98.67	**3.3**	<0.025	<0.025	<0.075	
MW-16	5/24/00	101.72		2.91		98.81	**2.6**	<0.025	<0.025	<0.050	
MW-16	8/15/00	101.72		3.07		98.65	**1.7**	<0.010	<0.01	<0.03	
MW-16	11/9/00	101.72		3.11		98.61	**1.5**	<0.050	<0.01	<0.03	
MW-16	10/11/01	101.72		3.06		98.66	**0.35**	<0.050	<0.0025	<0.0075	
MW-16	3/14/02	101.72		2.75		98.97	**0.017**	<0.001	<0.001	<0.003	
MW-16	6/6/02	101.72		2.65		99.07	**0.2**	<0.002	<0.002	<0.006	

Table 2

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Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-16	8/30/02	101.72		2.97		98.75	**0.13**	<0.001	<0.001	<0.003	
MW-16	12/6/02	101.72		3.21		98.51	**0.12**	<0.001	<0.001	<0.003	
MW-16	5/6/04	101.72		3.07		98.65	**0.049**	<0.001	<0.001	<0.003	0.0034
MW-16	4/21/05	101.72		2.95		98.77					
MW-16	4/22/05	101.72					**0.045**	<0.001	<0.001	<0.003	0.0032
MW-16	1/5/09	101.72		2.58		99.14					
MW-16	1/6/09	101.72					**0.0191**	<0.001	<0.001	<0.003	<0.001
MW-16	4/14/11	101.72		2.62		99.10	**0.006**	<0.001	<0.001	<0.003	0.0034
MW-16	10/2/13	101.72		3.23		98.49	**0.0070**	<0.00034	<0.00034	<0.0010	0.0035
MW-16	5/7/15	101.72		2.76		98.96	0.0037	<0.00039	<0.00039	<0.0012	0.0017
MW-17	11/5/97	100.91		2.05		98.86	<0.001	<0.001	<0.001	<0.003	
MW-17	2/27/98	100.91		1.63		99.28	<0.001	<0.001	<0.001	<0.003	
MW-17	6/10/98	100.91		1.58		99.33	<0.001	<0.001	<0.001	<0.003	
MW-17	10/8/98	100.91		1.87		99.04	<0.001	<0.001	<0.001	<0.003	
MW-17	3/31/99	100.91		2.29		98.62	<0.001	<0.001	<0.001	<0.003	
MW-17	6/9/99	100.91		2.15		98.76	<0.001	<0.001	<0.001	<0.003	
MW-17	9/2/99	100.91		2.65		98.26	<0.001	<0.001	<0.001	<0.002	
MW-17	10/28/99	100.91		2.54		98.37	<0.001	<0.001	<0.001	<0.002	
MW-17	2/23/00	100.91		2.04		98.87	<0.001	<0.001	<0.001	<0.003	
MW-17	5/24/00	100.91		1.81		99.10	<0.001	<0.001	<0.001	<0.002	
MW-17	8/15/00	100.91		2.07		98.84	<0.001	<0.001	<0.001	<0.003	
MW-17	11/9/00	100.91		1.98		98.93	<0.001	<0.005	<0.001	<0.003	
MW-17	10/11/01	100.91		2.14		98.77	<0.001	<0.001	<0.001	<0.003	
MW-17	3/14/02	100.91		1.81		99.10	<0.001	<0.001	<0.001	<0.003	
MW-17	6/6/02	100.91		1.59		99.32	0.0024	<0.001	<0.001	<0.003	
MW-17	8/30/02	100.91		2.01		98.90	<0.001	<0.001	<0.001	<0.003	
MW-17	12/6/02	100.91		2.34		98.57	<0.001	<0.001	<0.001	<0.003	
MW-17	5/6/04	100.91		2.13		98.78	0.0011	<0.001	<0.001	<0.003	0.053
MW-17	4/21/05	100.91		1.99		98.92					
MW-17	4/22/05	100.91					0.0041	<0.001	<0.001	<0.003	0.057
MW-17	1/5/09	100.91		1.48		99.43					
MW-17	1/6/09	100.91					<0.001	<0.001	<0.001	<0.003	0.0128
MW-17	4/14/11	100.91		1.60		99.31	<0.001	<0.001	<0.001	<0.003	0.0149
MW-17	10/2/13	100.91		2.21		98.70	0.00049 J	<0.00034	<0.00034	<0.0010	0.0065
MW-17	5/7/15	100.91		1.71		99.20	0.0010	<0.00039	<0.00039	<0.0012	0.0071
MW-18	11/5/97	99.19		5.32		93.87	<0.001	<0.001	<0.001	<0.003	
MW-18	2/27/98	99.19		2.63		96.56	<0.001	<0.001	<0.001	<0.003	
MW-18	6/10/98	99.19		2.85		96.34	<0.001	<0.001	<0.001	<0.003	
MW-18	10/8/98	99.19		6.37		92.82	<0.001	<0.001	<0.001	<0.003	
MW-18	3/31/99	99.19		2.81		96.38	<0.001	<0.001	<0.001	<0.003	
MW-18	6/9/99	99.19		2.46		96.73	<0.001	<0.001	<0.001	<0.003	
MW-18	9/2/99	99.19		4.73		94.46	<0.001	<0.001	<0.001	<0.003	
MW-18	10/28/99	99.19		3.95		95.24	<0.001	<0.001	<0.001	<0.003	
MW-18	2/23/00	99.19		3.25		95.94	<0.001	<0.001	<0.001	<0.003	
MW-18	5/24/00	99.19		2.34		96.85	<0.001	<0.001	<0.001	<0.003	
MW-18	8/15/00	99.19		2.98		96.21	<0.001	<0.001	<0.001	<0.003	
MW-18	11/9/00	99.19		3.35		95.84	<0.001	<0.005	<0.001	<0.003	
MW-18	10/11/01	99.19		3.42		95.77	<0.001	<0.001	<0.001	<0.003	
MW-18	3/14/02	99.19		2.40		96.79	<0.001	<0.001	<0.001	<0.003	
MW-18	6/6/02	99.19		2.33		96.86	<0.001	<0.001	<0.001	<0.003	
MW-18	8/30/02	99.19		3.50		95.69	<0.001	<0.001	<0.001	<0.003	
MW-18	12/6/02	99.19		3.54		95.65	<0.001	<0.001	<0.001	<0.003	
MW-18	5/6/04	99.19		2.83		96.36	<0.001	<0.001	<0.001	<0.003	<0.001
MW-18	4/21/05	99.19		2.73		96.46					
MW-18	4/22/05	99.19					<0.001	<0.001	<0.001	<0.003	<0.001
MW-18	1/5/09	99.19		2.34		96.85					
MW-18	1/6/09	99.19					<0.001	<0.001	<0.001	<0.003	<0.001
MW-18	4/14/11	99.19		2.53		96.66	<0.001	<0.001	<0.001	<0.003	<0.001
MW-18	10/2/13	99.19		4.13		95.06	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-18	5/7/15	99.19		2.58		96.61	<0.00040	<0.00039	<0.00039	<0.0012	<0.00048
MW-19	10/19/01	100.62		5.42		95.20	<0.001	<0.001	<0.001	<0.003	
MW-19	3/14/02	100.62		3.70		96.92	<0.001	<0.001	<0.001	<0.003	
MW-19	6/6/02	100.62		2.90		97.72	<0.001	<0.001	<0.001	<0.003	
MW-19	8/30/02	100.62		4.85		95.77	<0.001	<0.001	<0.001	<0.003	
MW-19	12/6/02	100.62		5.71		94.91	<0.001	<0.001	<0.001	<0.003	
MW-19	5/3/04	100.62		4.10		96.52	<0.001	<0.001	<0.001	<0.003	<0.001
MW-19	4/21/05	100.62		3.77		96.85					
MW-19	4/22/05	100.62					<0.001	<0.001	<0.001	<0.003	<0.001
MW-19	1/5/09	100.62		3.33		97.29					
MW-19	1/6/09	100.62					<0.001	<0.001	<0.001	<0.003	<0.001
MW-19	4/14/11	100.62		3.00		97.62	<0.001	<0.001	<0.001	<0.003	<0.001

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-19	10/2/13	100.62		4.75		95.87	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-19	5/7/15	100.62		3.18		97.44	<0.00040	<0.00039	<0.00039	<0.0012	0.00051 J
MW-21	4/21/05	102.43		8.79		93.64					
MW-21	4/22/05	102.43					<0.001	<0.001	<0.001	<0.003	<0.001
MW-21	1/5/09	102.43		6.12		96.31					
MW-21	1/6/09	102.43					<0.001	<0.001	<0.001	<0.003	<0.001
MW-21	4/14/11	102.43		6.01		96.42	<0.001	<0.001	<0.001	<0.003	<0.001
MW-21	10/2/13	102.43		7.45		94.98	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-21	5/7/15	102.43		6.13		96.30					
MW-22	4/21/05	107.15		4.62		102.53					
MW-22	4/22/05	107.15					<0.001	<0.001	<0.001	<0.003	<0.001
MW-22	1/6/09	107.15		4.34		102.81	<0.001	<0.001	<0.001	<0.003	<0.001
MW-22	4/14/11	107.15		4.51		102.64	<0.001	<0.001	<0.001	<0.003	<0.001
MW-22	10/2/13	107.15		4.75		102.40	<0.00034	<0.00034	<0.00034	<0.0010	0.0019
MW-23	4/21/05	104.89		6.90		97.99					
MW-23	4/22/05	104.89					<0.001	<0.001	<0.001	<0.003	<0.001
MW-23	1/5/09	104.89		6.78		98.11					
MW-23	1/6/09	104.89					<0.001	<0.001	<0.001	<0.003	<0.001
MW-23	4/14/11	104.89		6.83		98.06	<0.001	<0.001	<0.001	<0.003	<0.001
MW-23	10/2/13	104.89		11.26		93.63	<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-23	5/7/15	104.89		6.85		98.04					
MW-24	4/21/05	105.54		4.35		101.19	<0.001	<0.001	<0.001	<0.003	<0.001
MW-24	4/14/11	105.54		4.84		100.70	<0.001	<0.001	<0.001	<0.003	<0.001
MW-24	10/2/13	105.54		5.51		100.03					
MW-24	10/3/13	105.54					<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-24	5/7/15	105.54		3.82		101.72					
MW-25	5/24/05	107.74		4.31		103.43	<0.001	<0.001	<0.001	<0.003	<0.001
MW-25	9/1/09	107.74		4.33		103.41					
MW-25	4/14/11	107.74		4.10		103.64	<0.001	<0.001	<0.001	<0.003	<0.001
MW-25	12/6/12	107.74		5.21		102.53					
MW-25	12/10/12	107.74		8.25		99.49					
MW-25	12/14/12	107.74		5.22		102.52					
MW-25	12/18/12	107.74		5.27		102.47					
MW-25	12/27/12	107.74		5.24		102.50					
MW-25	1/7/13	107.74		5.20		102.54					
MW-25	1/28/13	107.74		5.19		102.55					
MW-25	2/11/13	107.74		5.15		102.59					
MW-25	3/25/13	107.74		4.28		103.46					
MW-25	4/4/13	107.74		5.35		102.39					
MW-25	4/8/13	107.74		5.15		102.59					
MW-25	4/15/13	107.74		4.11		103.63					
MW-25	4/22/13	107.74		3.95		103.79					
MW-25	5/8/13	107.74		4.16		103.58					
MW-25	5/23/13	107.74		4.28		103.46					
MW-25	7/3/13	107.74		4.30		103.44					
MW-25	10/2/13	107.74		4.73		103.01					
MW-25	10/3/13	107.74					<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-25	5/7/15	107.74		4.91		102.83					
MW-26	4/21/05	111.38		7.48		103.90					
MW-26	4/22/05	111.38					<0.001	<0.001	<0.001	<0.003	<0.001
MW-26	12/29/08	111.38		6.00		105.38					
MW-26	12/31/08	111.38		6.94		104.44					
MW-26	1/5/09	111.38		7.23		104.15					
MW-26	1/6/09	111.38					**0.0403**	0.0755	0.0048	0.0597	0.0017
MW-26	3/13/09	111.38		6.83		104.55					
MW-26	4/1/09	111.38		6.72		104.66					
MW-26	5/19/09	111.38		7.32		104.06					
MW-26	7/16/09	111.38	7.62	7.66	0.04	103.75					
MW-26	7/27/09	111.38	7.59	7.94	0.35	103.71					
MW-26	8/11/09	111.38	7.58	8.19	0.61	103.67					
MW-26	8/18/09	111.38	7.59	8.25	0.66	103.64					
MW-26	8/25/09	111.38	7.58	8.23	0.65	103.66					
MW-26	9/1/09	111.38	7.53	7.58	0.05	103.84					
MW-26	9/10/09	111.38	7.71	7.78	0.07	103.65					
MW-26	9/17/09	111.38	7.78	7.80	0.02	103.60					
MW-26	9/24/09	111.38	7.73	7.89	0.16	103.61					
MW-26	10/1/09	111.38		7.75		103.63					
MW-26	10/7/09	111.38	7.57	7.98	0.41	103.72					
MW-26	10/23/09	111.38		7.32		104.06					
MW-26	10/28/09	111.38		7.41		103.97					
MW-26	11/9/09	111.38	7.58	7.59	0.01	103.80					

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-26	11/24/09	111.38	7.71	7.72	0.01	103.67					
MW-26	12/3/09	111.38	7.59	7.63	0.04	103.78					
MW-26	12/8/09	111.38	7.64	7.69	0.05	103.73					
MW-26	12/17/09	111.38	7.55	7.63	0.08	103.81					
MW-26	12/22/09	111.38	7.62	7.81	0.19	103.72					
MW-26	12/28/09	111.38		7.20		104.18					
MW-26	1/6/10	111.38		7.55		103.83					
MW-26	1/19/10	111.38		7.68		103.70					
MW-26	1/25/10	111.38		7.15		104.23					
MW-26	2/2/10	111.38		7.53		103.85					
MW-26	2/8/10	111.38		7.62		103.76					
MW-26	3/18/10	111.38		7.21		104.17					
MW-26	3/24/10	111.38		7.28		104.10					
MW-26	3/29/10	111.38		7.42		103.96					
MW-26	4/21/10	111.38		7.50		103.88					
MW-26	4/27/10	111.38		7.50		103.88					
MW-26	5/4/10	111.38		7.49		103.89					
MW-26	5/10/10	111.38		7.47		103.91					
MW-26	5/19/10	111.38		7.27		104.11					
MW-26	5/25/10	111.38		7.43		103.95					
MW-26	6/2/10	111.38		7.39		103.99					
MW-26	6/8/10	111.38		7.33		104.05					
MW-26	6/16/10	111.38		7.43		103.95					
MW-26	6/22/10	111.38		7.43		103.95					
MW-26	6/30/10	111.38		7.40		103.98					
MW-26	7/6/10	111.38		7.57		103.81					
MW-26	7/13/10	111.38	7.53	7.54	0.01	103.85					
MW-26	7/20/10	111.38		7.65		103.73					
MW-26	7/27/10	111.38	7.39	7.40	0.01	103.99					
MW-26	8/18/10	111.38		7.47		103.91					
MW-26	8/24/10	111.38	7.53	7.54	0.01	103.85					
MW-26	8/31/10	111.38		7.60		103.78					
MW-26	9/21/10	111.38	7.66	7.68	0.02	103.72					
MW-26	9/30/10	111.38	7.71	7.73	0.02	103.67					
MW-26	10/12/10	111.38	7.78	8.04	0.26	103.54					
MW-26	11/3/10	111.38	7.73	8.08	0.35	103.57					
MW-26	11/15/10	111.38	7.78	8.11	0.33	103.53					
MW-26	12/2/10	111.38	7.73	8.34	0.61	103.52					
MW-26	12/10/10	111.38	7.75	8.21	0.46	103.53					
MW-26	12/22/10	111.38	7.81	8.58	0.77	103.40					
MW-26	12/27/10	111.38	7.82	8.63	0.81	103.36					
MW-26	12/29/10	111.38	8.11	8.59	0.48	103.16					
MW-26	1/5/11	111.38	7.87	8.14	0.27	103.45					
MW-26	5-Jan-11^	111.38		8.02		103.36					
MW-26	1/13/11	111.38	8.04	8.06	0.02	103.34					
MW-26	13-Jan-11^	111.38		8.17		103.21					
MW-26	1/17/11	111.38	7.99	8.43	0.44	103.29					
MW-26	1/28/11	111.38	7.98	8.76	0.78	103.23					
MW-26	28-Jan-11^	111.38		8.48		102.90					
MW-26	2/7/11	111.38		8.05		103.33					
MW-26	3/2/11	111.38		7.52		103.86					
MW-26	3/7/11	111.38		7.50		103.88					
MW-26	3/14/11	111.38		7.45		103.93					
MW-26	3/21/11	111.38		7.10		104.28					
MW-26	3/28/11	111.38		7.39		103.99					
MW-26	4/5/11	111.38		7.52		103.86					
MW-26	4/12/11	111.38	7.42	7.43	0.01	103.95					
MW-26	4/14/11	111.38		7.52		103.86	0.002	0.013	0.0094	0.0581	<0.001
MW-26	4/19/11	111.38		7.15		104.23					
MW-26	4/26/11	111.38		6.93		104.45					
MW-26	5/5/11	111.38		7.38		104.00					
MW-26	5/11/11	111.38		7.54		103.84					
MW-26	5/17/11	111.38		7.55		103.83					
MW-26	5/23/11	111.38		7.20		104.18					
MW-26	6/2/11	111.38		7.30		104.08					
MW-26	6/27/11	111.38		7.58		103.80					
MW-26	7/6/11	111.38		7.72		103.66					
MW-26	7/18/11	111.38		7.83		103.55					
MW-26	7/26/11	111.38		7.52		103.86					
MW-26	8/2/11	111.38		7.51		103.87					
MW-26	8/9/11	111.38		7.44		103.94					

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-26	8/15/11	111.38		7.58		103.80					
MW-26	8/22/11	111.38		7.50		103.88					
MW-26	8/29/11	111.38		7.63		103.75					
MW-26	9/7/11	111.38		7.75		103.63					
MW-26	9/13/11	111.38		7.83		103.55					
MW-26	9/20/11	111.38		7.77		103.61					
MW-26	9/27/11	111.38		7.50		103.88					
MW-26	10/3/11	111.38		7.64		103.74					
MW-26	10/11/11	111.38		7.82		103.56					
MW-26	10/18/11	111.38		7.75		103.63					
MW-26	10/25/11	111.38		7.67		103.71					
MW-26	11/4/11	111.38		7.63		103.75					
MW-26	11/10/11	111.38		7.36		104.02					
MW-26	11/21/11	111.38		7.56		103.82					
MW-26	11/30/11	111.38		7.58		103.80					
MW-26	12/6/11	111.38		7.46		103.92					
MW-26	12/12/11	111.38		7.63		103.75					
MW-26	12/19/11	111.38		7.53		103.85					
MW-26	12/29/11	111.38		7.45		103.93					
MW-26	1/9/12	111.38		7.66		103.72					
MW-26	1/23/12	111.38		7.57		103.81					
MW-26	1/31/12	111.38		7.54		103.84					
MW-26	2/6/12	111.38		7.55		103.83					
MW-26	2/13/12	111.38		7.68		103.70					
MW-26	2/21/12	111.38		7.67		103.71					
MW-26	2/28/12	111.38		7.48		103.90					
MW-26	3/9/12	111.38		7.64		103.74					
MW-26	3/23/12	111.38		7.55		103.83					
MW-26	3/27/12	111.38		7.53		103.85					
MW-26	4/5/12	111.38		7.67		103.71					
MW-26	4/10/12	111.38		7.73		103.65					
MW-26	4/16/12	111.38		7.33		104.05					
MW-26	4/24/12	111.38		7.55		103.83					
MW-26	5/4/12	111.38		7.51		103.87					
MW-26	5/10/12	111.38		7.45		103.93					
MW-26	5/16/12	111.38		7.62		103.76					
MW-26	5/25/12	111.38		7.65		103.73					
MW-26	5/29/12	111.38		7.73		103.65					
MW-26	6/8/12	111.38		7.68		103.70					
MW-26	6/19/12	111.38		7.82		103.56					
MW-26	6/29/12	111.38		7.95		103.43					
MW-26	7/3/12	111.38		7.98		103.40					
MW-26	7/11/12	111.38		8.08		103.30					
MW-26	7/16/12	111.38		7.80		103.58					
MW-26	8/1/12	111.38		7.91		103.47					
MW-26	8/10/12	111.38		7.93		103.45					
MW-26	9/7/12	111.38		8.00		103.38					
MW-26	9/13/12	111.38		8.04		103.34					
MW-26	10/3/12	111.38		8.14		103.24					
MW-26	11/27/12	111.38	8.21	9.19	0.98	102.95					
MW-26	12/3/12	111.38	8.23	9.31	1.08	102.91					
MW-26	12/6/12	111.38	8.29	9.27	0.98	102.87					
MW-26	6-Dec-12^	111.38		8.51		102.87					
MW-26	12/10/12	111.38	8.22	9.02	0.80	102.98					
MW-26	10-Dec-12^	111.38		8.62		102.76					
MW-26	12/14/12	111.38	8.44	9.47	1.03	102.71					
MW-26	14-Dec-12^	111.38		8.52		102.86					
MW-26	12/18/12	111.38	8.30	8.42	0.12	103.05					
MW-26	12/27/12	111.38		8.17		103.21					
MW-26	1/7/13	111.38	8.37	8.54	0.17	102.97					
MW-26	1/14/13	111.38	8.15	8.33	0.18	103.19					
MW-26	1/21/13	111.38	8.30	8.69	0.39	102.99					
MW-26	1/28/13	111.38	8.42	8.64	0.22	102.91					
MW-26	2/6/13	111.38	8.05	8.07	0.02	103.33					
MW-26	2/11/13	111.38		7.85		103.53					
MW-26	2/18/13	111.38		8.02		103.36					
MW-26	2/27/13	111.38		8.02		103.36					
MW-26	3/4/13	111.38		7.97		103.41					
MW-26	3/25/13	111.38		7.82		103.56					
MW-26	4/4/13	111.38		8.15		103.23					
MW-26	4/8/13	111.38		8.05		103.33					

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-26	4/15/13	111.38		7.55		103.83					
MW-26	4/22/13	111.38		7.21		104.17					
MW-26	5/8/13	111.38		7.62		103.76					
MW-26	5/23/13	111.38		7.67		103.71					
MW-26	7/3/13	111.38		7.57		103.81					
MW-26	10/2/13	111.38		8.13		103.25					
MW-26	10/3/13	111.38					<0.00034	0.00051 J	0.00057 J	0.0079	0.00054 J
MW-26	5/7/15	111.38		7.65		103.73					
MW-27	4/21/05	111.15		7.54		103.61	0.048	0.0095	0.15	0.68	0.016
MW-27	12/29/08	111.15	sheen	6.83	sheen	104.32					
MW-27	12/31/08	111.15	6.97	7.03	0.06	104.17					
MW-27	1/5/09	111.15	7.25	7.35	0.10	103.88					
MW-27	1/9/09	111.15	7.29	7.39	0.10	103.84					
MW-27	1/27/09	111.15	7.59	7.72	0.13	103.53					
MW-27	1/30/09	111.15	7.66	7.68	0.02	103.49					
MW-27	2/26/09	111.15	7.28	7.36	0.08	103.85					
MW-27	3/9/09	111.15		6.50		104.65					
MW-27	3/13/09	111.15	6.82	6.83	0.00	104.33					
MW-27	4/1/09	111.15		6.71		104.44					
MW-27	5/19/09	111.15	7.37	7.39	0.02	103.78					
MW-27	7/16/09	111.15	7.42	8.34	0.92	103.53					
MW-27	9/1/09	111.15	7.43	7.73	0.30	103.65					
MW-27	9/10/09	111.15	7.55	7.56	0.01	103.60					
MW-27	9/17/09	111.15	7.56	7.58	0.02	103.59					
MW-27	9/24/09	111.15		7.53		103.62					
MW-27	10/1/09	111.15		7.59		103.56					
MW-27	10/7/09	111.15	7.53	7.84	0.31	103.55					
MW-27	10/23/09	111.15	7.30	7.53	0.23	103.80					
MW-27	10/28/09	111.15	7.39	7.58	0.19	103.72					
MW-27	11/9/09	111.15	7.51	7.78	0.27	103.58					
MW-27	11/24/09	111.15	7.60	8.07	0.47	103.45					
MW-27	12/3/09	111.15	7.53	7.87	0.34	103.55					
MW-27	12/8/09	111.15	7.56	7.96	0.40	103.50					
MW-27	12/17/09	111.15	7.49	7.77	0.28	103.60					
MW-27	12/22/09	111.15	7.55	7.94	0.39	103.51					
MW-27	12/28/09	111.15		7.20		103.95					
MW-27	1/6/10	111.15	7.51	7.53	0.02	103.64					
MW-27	1/11/10	111.15		7.65		103.50					
MW-27	1/19/10	111.15	7.63	7.65	0.02	103.52					
MW-27	1/25/10	111.15		7.13		104.02					
MW-27	2/2/10	111.15	7.51	7.53	0.02	103.64					
MW-27	2/8/10	111.15	7.60	7.63	0.03	103.54					
MW-27	2/16/10	111.15	7.72	7.74	0.02	103.43					
MW-27	2/22/10	111.15	7.50	7.72	0.22	103.60					
MW-27	3/1/10	111.15		7.48		103.67					
MW-27	3/8/10	111.15	7.37	7.61	0.24	103.73					
MW-27	3/18/10	111.15		7.23		103.92					
MW-27	3/24/10	111.15		7.29		103.86					
MW-27	3/29/10	111.15	7.42	7.43	0.01	103.73					
MW-27	4/21/10	111.15	7.46	7.56	0.10	103.67					
MW-27	4/27/10	111.15	7.48	7.61	0.13	103.64					
MW-27	5/4/10	111.15	7.49	7.61	0.12	103.63					
MW-27	5/10/10	111.15	7.45	7.54	0.09	103.68					
MW-27	5/19/10	111.15	7.25	7.37	0.12	103.87					
MW-27	5/25/10	111.15	7.39	7.51	0.12	103.73					
MW-27	6/2/10	111.15	7.42	7.46	0.04	103.72					
MW-27	6/8/10	111.15	7.35	7.38	0.03	103.79					
MW-27	6/16/10	111.15	7.40	7.58	0.18	103.71					
MW-27	6/22/10	111.15	7.34	7.75	0.41	103.72					
MW-27	6/30/10	111.15	7.30	7.86	0.56	103.73					
MW-27	7/6/10	111.15		7.37		103.78					
MW-27	7/13/10	111.15	7.35	8.11	0.76	103.63					
MW-27	7/20/10	111.15	7.46	7.47	0.01	103.69					
MW-27	7/27/10	111.15	7.33	7.65	0.32	103.75					
MW-27	8/18/10	111.15	7.29	8.12	0.83	103.68					
MW-27	8/24/10	111.15	7.31	8.12	0.81	103.66					
MW-27	8/31/10	111.15	7.40	7.46	0.06	103.74					
MW-27	9/21/10	111.15		7.46		103.69					
MW-27	9/30/10	111.15		7.49		103.66					
MW-27	10/12/10	111.15	7.59	8.50	0.91	103.36					
MW-27	11/3/10	111.15	7.61	8.42	0.81	103.36					

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-27	11/15/10	111.15	7.58	8.37	0.79	103.40					
MW-27	12/2/10	111.15	7.67	8.38	0.71	103.32					
MW-27	12/10/10	111.15	7.63	8.40	0.77	103.35					
MW-27	12/22/10	111.15	7.71	8.66	0.95	103.23					
MW-27	12/27/10	111.15	7.74	8.63	0.89	103.21					
MW-27	12/29/10	111.15	8.36	8.59	0.23	102.74					
MW-27	1/5/11	111.15	7.64	8.22	0.58	103.38					
MW-27	5-Jan-11^	111.15	8.25	8.39	0.14	102.87					
MW-27	1/10/11	111.15		7.69		103.46					
MW-27	1/13/11	111.15	7.75	8.52	0.77	103.23					
MW-27	13-Jan-11^	111.15	8.12	8.13	0.01	103.03					
MW-27	1/17/11	111.15	7.74	8.63	0.89	103.21					
MW-27	1/28/11	111.15		7.79		103.36					
MW-27	28-Jan-11^	111.15	7.93	8.80	0.87	103.03					
MW-27	2/7/11	111.15		7.91		103.24					
MW-27	2/22/11	111.15	7.22	7.31	0.09	103.91					
MW-27	3/2/11	111.15	7.50	7.61	0.11	103.63					
MW-27	3/7/11	111.15	7.55	7.62	0.07	103.58					
MW-27	3/14/11	111.15	7.37	7.38	0.01	103.78					
MW-27	3/21/11	111.15	6.93	6.95	0.02	104.22					
MW-27	3/28/11	111.15		7.32		103.83					
MW-27	4/5/11	111.15	7.44	7.45	0.01	103.71					
MW-27	4/12/11	111.15	7.37	7.40	0.03	103.77					
MW-27	4/14/11	111.15	7.44	7.45	0.01	103.71					
MW-27	4/19/11	111.15		7.10		104.05					
MW-27	4/26/11	111.15		6.90		104.25					
MW-27	5/5/11	111.15		7.33		103.82					
MW-27	5/11/11	111.15		7.46		103.69					
MW-27	5/17/11	111.15		7.48		103.67					
MW-27	5/23/11	111.15		7.12		104.03					
MW-27	6/2/11	111.15		7.23		103.92					
MW-27	6/27/11	111.15	7.50	7.51	0.01	103.65					
MW-27	7/6/11	111.15	7.63	7.65	0.02	103.52					
MW-27	7/18/11	111.15	7.75	7.82	0.07	103.38					
MW-27	7/26/11	111.15	7.42	7.49	0.07	103.71					
MW-27	8/2/11	111.15	7.43	7.45	0.02	103.72					
MW-27	8/9/11	111.15		7.21		103.94					
MW-27	8/15/11	111.15	7.49	7.52	0.03	103.65					
MW-27	8/22/11	111.15		7.42		103.73					
MW-27	8/29/11	111.15	7.54	7.58	0.04	103.60					
MW-27	9/7/11	111.15	7.65	7.71	0.06	103.49					
MW-27	9/13/11	111.15	7.70	7.76	0.06	103.44					
MW-27	9/20/11	111.15	7.64	7.72	0.08	103.49					
MW-27	9/27/11	111.15		7.45		103.70					
MW-27	10/3/11	111.15	7.54	7.57	0.03	103.60					
MW-27	10/11/11	111.15	7.62	7.65	0.03	103.52					
MW-27	10/18/11	111.15	7.62	7.65	0.03	103.52					
MW-27	10/25/11	111.15	7.57	7.60	0.03	103.57					
MW-27	11/4/11	111.15	7.57	7.58	0.01	103.58					
MW-27	11/10/11	111.15		7.31		103.84					
MW-27	11/21/11	111.15		7.53		103.62					
MW-27	11/30/11	111.15	7.51	7.52	0.01	103.64					
MW-27	12/6/11	111.15	7.41	7.42	0.01	103.74					
MW-27	12/12/11	111.15	7.54	7.55	0.01	103.61					
MW-27	12/19/11	111.15		7.49		103.66					
MW-27	12/29/11	111.15		7.58		103.57					
MW-27	1/9/12	111.15		7.56		103.59					
MW-27	1/17/12	111.15		7.02		104.13					
MW-27	1/23/12	111.15		7.43		103.72					
MW-27	1/31/12	111.15		7.47		103.68					
MW-27	2/6/12	111.15		7.49		103.66					
MW-27	2/13/12	111.15	7.60	7.61	0.01	103.55					
MW-27	2/21/12	111.15	7.59	7.61	0.02	103.56					
MW-27	2/28/12	111.15	7.43	7.44	0.01	103.72					
MW-27	3/9/12	111.15	7.59	7.60	0.01	103.56					
MW-27	3/23/12	111.15		7.50		103.65					
MW-27	3/27/12	111.15		7.45		103.70					
MW-27	4/5/12	111.15		7.60		103.55					
MW-27	4/10/12	111.15	7.64	7.65	0.01	103.51					
MW-27	4/16/12	111.15		7.25		103.90					
MW-27	4/24/12	111.15	7.47	7.48	0.01	103.68					

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-27	5/4/12	111.15		7.47		103.68					
MW-27	5/10/12	111.15		7.39		103.76					
MW-27	5/16/12	111.15		7.54		103.61					
MW-27	5/25/12	111.15		7.64		103.51					
MW-27	5/29/12	111.15	7.62	7.63	0.01	103.53					
MW-27	6/8/12	111.15		7.60		103.55					
MW-27	6/14/12	111.15	7.70	7.71	0.01	103.45					
MW-27	6/19/12	111.15	7.71	7.74	0.03	103.43					
MW-27	6/29/12	111.15	7.84	7.88	0.04	103.30					
MW-27	7/3/12	111.15	7.89	7.93	0.04	103.25					
MW-27	7/11/12	111.15		7.95		103.20					
MW-27	7/16/12	111.15	7.88	7.89	0.01	103.27					
MW-27	8/1/12	111.15		7.93		103.22					
MW-27	8/10/12	111.15	7.84	7.85	0.01	103.31					
MW-27	9/7/12	111.15		7.85		103.30					
MW-27	9/13/12	111.15		7.90		103.25					
MW-27	10/3/12	111.15	7.98	8.94	0.96	102.96					
MW-27	11/13/12	111.15	7.64	8.84	1.20	103.25					
MW-27	11/27/12	111.15	8.02	9.00	0.98	102.91					
MW-27	12/3/12	111.15	8.03	9.10	1.07	102.88					
MW-27	12/6/12	111.15	8.28	9.35	1.07	102.63					
MW-27	6-Dec-12^	111.15	8.31	8.34	0.03	102.83					
MW-27	12/10/12	111.15	8.05	8.96	0.91	102.90					
MW-27	10-Dec-12^	111.15	8.38	8.39	0.01	102.77					
MW-27	12/14/12	111.15	8.10	9.11	1.01	102.83					
MW-27	14-Dec-12^	111.15	8.45	8.46	0.01	102.70					
MW-27	12/18/12	111.15	7.98	8.60	0.62	103.03					
MW-27	12/27/12	111.15	7.98	8.11	0.13	103.14					
MW-27	1/7/13	111.15	8.08	8.10	0.02	103.07					
MW-27	1/14/13	111.15	7.94	7.95	0.01	103.21					
MW-27	1/21/13	111.15	8.05	8.07	0.02	103.10					
MW-27	1/28/13	111.15	8.08	8.83	0.75	102.91					
MW-27	2/6/13	111.15	7.95	8.05	0.10	103.18					
MW-27	2/11/13	111.15		7.61		103.54					
MW-27	2/18/13	111.15		7.84		103.31					
MW-27	2/27/13	111.15		7.84		103.31					
MW-27	3/4/13	111.15		7.81		103.34					
MW-27	3/25/13	111.15		7.71		103.44					
MW-27	4/4/13	111.15		7.79		103.36					
MW-27	4/8/13	111.15		7.76		103.39					
MW-27	4/15/13	111.15		7.48		103.67					
MW-27	4/22/13	111.15		7.07		104.08					
MW-27	5/8/13	111.15		7.52		103.63					
MW-27	5/23/13	111.15		7.56		103.59					
MW-27	7/3/13	111.15		7.51		103.64					
MW-27	10/2/13	111.15		7.98		103.17					
MW-27	10/3/13	111.15					**3.520**	**2.010**	0.486	4.000	<0.0093
MW-27	5/7/15	111.15		8.57		102.58	**0.875**	0.015	0.139	0.367	<0.0024
MW-28	4/21/05	112.55		8.10		104.45					
MW-28	4/22/05	112.55					<0.001	<0.001	<0.001	<0.003	<0.001
MW-28	1/5/09	112.55		7.80		104.75					
MW-28	1/6/09	112.55					<0.001	<0.001	<0.001	<0.003	<0.001
MW-28	9/1/09	112.55		8.02		104.53					
MW-28	4/14/11	112.55		7.91		104.64	<0.001	<0.001	<0.001	<0.003	<0.001
MW-28	12/6/12	112.55		9.11		103.44					
MW-28	12/10/12	112.55		9.08		103.47					
MW-28	12/14/12	112.55		9.10		103.45					
MW-28	12/18/12	112.55		9.08		103.47					
MW-28	12/27/12	112.55		9.05		103.50					
MW-28	1/7/13	112.55		9.01		103.54					
MW-28	1/28/13	112.55		9.04		103.51					
MW-28	2/11/13	112.55		8.62		103.93					
MW-28	4/4/13	112.55		7.95		104.60					
MW-28	4/8/13	112.55		7.97		104.58					
MW-28	4/15/13	112.55		7.55		105.00					
MW-28	4/22/13	112.55		7.05		105.50					
MW-28	5/8/13	112.55		7.51		105.04					
MW-28	10/2/13	112.55		8.59		103.96					
MW-28	10/3/13	112.55					<0.00034	<0.00034	<0.00034	<0.0010	<0.00037
MW-28	5/7/15	112.55		8.09		104.46					
MW-29	5/19/09		7.32	9.39	2.07						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-29	6/17/09		7.55	8.65	1.10						
MW-29	7/16/09		7.84	9.10	1.26						
MW-29	7/27/09		7.76	8.86	1.10						
MW-29	8/11/09		8.26	8.27	0.01						
MW-29	8/18/09		8.29	8.44	0.15						
MW-29	8/25/09		8.21	8.28	0.07						
MW-29	9/1/09		7.75	8.96	1.21						
MW-29	9/10/09		7.88	9.16	1.28						
MW-29	9/17/09		8.27	8.41	0.14						
MW-29	9/24/09		8.26	8.27	0.01						
MW-29	10/1/09			8.30							
MW-29	10/7/09		8.09	8.11	0.02						
MW-29	10/23/09		7.75	7.86	0.11						
MW-29	10/28/09		7.84	8.26	0.42						
MW-29	11/9/09		7.80	8.95	1.15						
MW-29	11/24/09		7.93	9.03	1.10						
MW-29	12/3/09		7.84	8.82	0.98						
MW-29	12/8/09		7.86	8.74	0.88						
MW-29	12/17/09		7.90	8.60	0.70						
MW-29	12/22/09		7.95	8.80	0.85						
MW-29	12/28/09		7.61	7.63	0.02						
MW-29	1/6/10		7.80	8.73	0.93						
MW-29	1/11/10		7.80	9.17	1.37						
MW-29	1/19/10		7.85	9.20	1.35						
MW-29	1/25/10		7.55	7.63	0.08						
MW-29	2/2/10		7.82	8.77	0.95						
MW-29	2/8/10		7.85	8.89	1.04						
MW-29	2/16/10		7.93	8.97	1.04						
MW-29	2/22/10		7.85	8.45	0.60						
MW-29	3/1/10		7.87	8.64	0.77						
MW-29	3/8/10		7.71	8.16	0.45						
MW-29	3/18/10		7.62	7.77	0.15						
MW-29	3/24/10		7.65	7.73	0.08						
MW-29	3/29/10		7.78	7.85	0.07						
MW-29	4/21/10		7.18	7.23	0.05						
MW-29	4/27/10		7.86	8.45	0.59						
MW-29	5/4/10		7.76	8.71	0.95						
MW-29	5/10/10		7.83	8.40	0.57						
MW-29	5/19/10		7.56	8.50	0.94						
MW-29	5/25/10		7.71	8.52	0.81						
MW-29	6/2/10		7.70	8.40	0.70						
MW-29	6/8/10		7.72	8.36	0.64						
MW-29	6/16/10		7.70	8.50	0.80						
MW-29	6/22/10		6.95	7.22	0.27						
MW-29	6/30/10		7.00	7.21	0.21						
MW-29	7/6/10		6.96	7.19	0.23						
MW-29	7/13/10		6.99	7.14	0.15						
MW-29	7/20/10		6.97	7.19	0.22						
MW-29	7/27/10		7.03	7.16	0.13						
MW-29	8/18/10		7.00	7.18	0.18						
MW-29	8/24/10		7.01	7.15	0.14						
MW-29	8/31/10		7.02	7.17	0.15						
MW-29	9/21/10		7.04	7.19	0.15						
MW-29	9/30/10		7.11	7.24	0.13						
MW-29	10/12/10		7.25	7.40	0.15						
MW-29	11/3/10		8.23	8.53	0.30						
MW-29	11/15/10		8.21	8.54	0.33						
MW-29	12/2/10		8.25	8.56	0.31						
MW-29	12/10/10		8.29	8.52	0.23						
MW-29	12/22/10		8.41	8.43	0.02						
MW-29	12/27/10		7.74	8.63	0.89						
MW-29	12/29/10		8.12	8.45	0.33						
MW-29	1/5/11		8.18	8.95	0.77						
MW-29	5-Jan-11^		8.68	8.71	0.03						
MW-29	1/13/11		8.45	8.72	0.27						
MW-29	13-Jan-11^		8.73	8.78	0.05						
MW-29	1/17/11		8.42	8.68	0.26						
MW-29	1/28/11		8.52	8.67	0.15						
MW-29	28-Jan-11^			8.90							
MW-29	2/7/11		8.64	8.72	0.08						
MW-29	2/22/11			7.72							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-29	3/2/11		7.85	7.99	0.14						
MW-29	3/7/11		7.78	7.86	0.08						
MW-29	3/14/11		7.70	8.29	0.59						
MW-29	3/21/11			7.34							
MW-29	3/28/11			7.65							
MW-29	4/5/11			7.60							
MW-29	4/12/11		7.61	8.74	1.13						
MW-29	4/14/11		7.68	8.77	1.09						
MW-29	4/19/11		8.21	8.40	0.19						
MW-29	4/26/11		7.19	7.50	0.31						
MW-29	5/5/11		7.63	8.34	0.71						
MW-29	5/11/11		7.70	8.81	1.11						
MW-29	5/17/11		7.93	8.24	0.31						
MW-29	5/23/11		7.58	7.63	0.05						
MW-29	6/2/11		7.57	8.25	0.68						
MW-29	6/27/11		7.68	9.02	1.34						
MW-29	7/6/11		7.55	7.96	0.41						
MW-29	7/18/11		8.06	9.12	1.06						
MW-29	7/26/11		7.79	8.55	0.76						
MW-29	8/2/11		7.73	8.53	0.80						
MW-29	8/9/11		7.72	8.46	0.74						
MW-29	8/15/11		7.92	8.13	0.21						
MW-29	8/22/11		7.84	8.16	0.32						
MW-29	8/29/11		7.85	8.67	0.82						
MW-29	9/7/11		8.05	8.70	0.65						
MW-29	9/13/11		8.15	8.60	0.45						
MW-29	9/20/11		7.98	8.90	0.92						
MW-29	9/27/11		7.90	8.08	0.18						
MW-29	10/3/11		8.00	8.12	0.12						
MW-29	10/11/11		8.14	8.21	0.07						
MW-29	10/18/11		7.78	8.73	0.95						
MW-29	10/25/11		7.72	8.68	0.96						
MW-29	11/4/11		7.82	8.60	0.78						
MW-29	11/10/11		7.62	8.36	0.74						
MW-29	11/21/11		7.88	8.31	0.43						
MW-29	11/30/11		7.89	8.35	0.46						
MW-29	12/6/11		7.81	8.11	0.30						
MW-29	12/12/11		7.89	8.49	0.60						
MW-29	12/19/11		7.86	8.23	0.37						
MW-29	12/29/11		7.93	8.19	0.26						
MW-29	1/9/12			7.95							
MW-29	1/17/12		7.83	7.88	0.05						
MW-29	1/23/12		7.86	8.38	0.52						
MW-29	1/31/12		7.90	8.45	0.55						
MW-29	2/6/12		7.88	8.38	0.50						
MW-29	2/13/12		7.94	8.73	0.79						
MW-29	2/21/12		8.00	8.68	0.68						
MW-29	2/28/12		7.85	8.22	0.37						
MW-29	3/9/12		8.40	8.45	0.05						
MW-29	3/23/12			7.85							
MW-29	4/5/12		7.91	8.79	0.88						
MW-29	4/10/12		8.00	8.72	0.72						
MW-29	4/16/12		7.70	8.30	0.60						
MW-29	4/24/12		7.85	8.50	0.65						
MW-29	5/4/12		7.84	8.43	0.59						
MW-29	5/10/12		7.81	8.25	0.44						
MW-29	5/16/12		7.88	8.76	0.88						
MW-29	5/25/12		7.92	8.60	0.68						
MW-29	5/29/12		7.93	8.97	1.04						
MW-29	6/8/12		7.97	8.00	0.03						
MW-29	6/14/12		7.99	8.98	0.99						
MW-29	6/19/12		8.12	8.86	0.74						
MW-29	6/29/12		8.21	9.13	0.92						
MW-29	7/3/12		8.25	9.16	0.91						
MW-29	7/11/12		8.24	8.29	0.05						
MW-29	7/16/12		8.37	9.21	0.84						
MW-29	8/1/12		8.13	9.03	0.90						
MW-29	8/10/12		8.18	9.20	1.02						
MW-29	9/7/12		8.31	9.71	1.40						
MW-29	9/13/12		8.31	8.39	0.08						
MW-29	10/3/12		8.43	8.45	0.02						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-29	11/13/12		7.64	8.84	1.20						
MW-29	11/27/12		7.82	8.81	0.99						
MW-29	12/3/12		7.96	8.50	0.54						
MW-29	12/6/12		8.03	8.36	0.33						
MW-29	6-Dec-12^			8.15							
MW-29	12/10/12		8.00	8.07	0.07						
MW-29	10-Dec-12^		8.10	8.12	0.02						
MW-29	12/14/12		8.12	8.29	0.17						
MW-29	14-Dec-12^			8.23							
MW-29	12/18/12		7.90	7.95	0.05						
MW-29	12/27/12		7.78	8.02	0.24						
MW-29	1/7/13		7.91	7.93	0.02						
MW-29	1/14/13		7.75	7.78	0.03						
MW-29	1/21/13		7.85	7.87	0.02						
MW-29	1/28/13		7.93	7.94	0.01						
MW-29	2/6/13		7.65	8.24	0.59						
MW-29	2/11/13		7.34	7.35	0.01						
MW-29	2/18/13		7.51	7.78	0.27						
MW-29	2/21/13	111.44	7.52	7.55	0.03	103.91	9.700	19.500	2.680	19.600	<0.0476
MW-29	2/27/13	111.44	7.58	7.72	0.14	103.83					
MW-29	3/4/13	111.44	7.56	7.57	0.02	103.88					
MW-29	3/25/13	111.44		7.43		104.01					
MW-29	4/4/13	111.44		7.55		103.89					
MW-29	4/8/13	111.44	7.54	7.56	0.02	103.90					
MW-29	4/15/13	111.44	Sheen	7.11	Sheen	104.33					
MW-29	4/22/13	111.44		6.72		104.72					
MW-29	5/8/13	111.44	7.21	7.22	0.01	104.23					
MW-29	5/23/13	111.44		7.27		104.17					
MW-29	7/3/13	111.44	7.14	7.15	0.01	104.30					
MW-29	5/5/15	111.44					0.870	1.430	0.555	9.750	<0.0242
MW-30	5/19/09		7.46	7.54	0.08						
MW-30	6/17/09		7.29	8.19	0.90						
MW-30	7/16/09		7.54	8.55	1.01						
MW-30	8/25/09		7.66	8.54	0.88						
MW-30	9/1/09		7.58	7.91	0.33						
MW-30	9/10/09		7.65	8.52	0.87						
MW-30	9/17/09			7.68							
MW-30	9/24/09			7.69							
MW-30	10/1/09			7.72							
MW-30	10/7/09		7.64	7.65	0.01						
MW-30	10/23/09		7.41	7.64	0.23						
MW-30	10/28/09		7.54	7.71	0.17						
MW-30	11/9/09		7.67	7.83	0.16						
MW-30	11/24/09		7.81	7.95	0.14						
MW-30	12/3/09		7.70	7.93	0.23						
MW-30	12/8/09		7.71	7.80	0.09						
MW-30	12/17/09		7.63	7.72	0.09						
MW-30	12/22/09		7.73	8.00	0.27						
MW-30	12/28/09		7.27	7.33	0.06						
MW-30	1/6/10		7.63	7.74	0.11						
MW-30	1/11/10		7.73	7.83	0.10						
MW-30	1/19/10		7.77	7.82	0.05						
MW-30	1/25/10			7.23							
MW-30	2/2/10		7.63	7.68	0.05						
MW-30	2/8/10		7.72	7.88	0.16						
MW-30	2/16/10		7.78	7.82	0.04						
MW-30	2/22/10		7.67	7.70	0.03						
MW-30	3/1/10		7.67	7.70	0.03						
MW-30	3/8/10		7.54	7.57	0.03						
MW-30	3/18/10		7.32	7.35	0.03						
MW-30	3/24/10		7.40	7.46	0.06						
MW-30	3/29/10		7.52	7.57	0.05						
MW-30	4/21/10		7.60	7.72	0.12						
MW-30	4/27/10		7.62	7.73	0.11						
MW-30	5/4/10		7.61	7.72	0.11						
MW-30	5/10/10		7.57	7.67	0.10						
MW-30	5/19/10		7.37	7.46	0.09						
MW-30	5/25/10		7.53	7.60	0.07						
MW-30	6/2/10		7.53	7.60	0.07						
MW-30	6/8/10		7.45	7.54	0.09						
MW-30	6/16/10		7.54	7.62	0.08						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-30	6/22/10		7.41	8.03	0.62						
MW-30	6/30/10		7.37	8.18	0.81						
MW-30	7/6/10		7.49	7.51	0.02						
MW-30	7/13/10			7.51							
MW-30	7/20/10		7.60	8.38	0.78						
MW-30	7/27/10			7.45							
MW-30	8/18/10		7.37	8.30	0.93						
MW-30	8/24/10			7.40							
MW-30	8/31/10		7.45	7.51	0.06						
MW-30	9/21/10			7.52							
MW-30	9/30/10			7.60							
MW-30	10/12/10		7.58	8.71	1.13						
MW-30	11/3/10		7.69	8.59	0.90						
MW-30	11/15/10		7.50	8.43	0.93						
MW-30	12/2/10		7.74	8.59	0.85						
MW-30	12/10/10		7.71	8.55	0.84						
MW-30	12/22/10		7.90	8.89	0.99						
MW-30	12/27/10		7.84	8.82	0.98						
MW-30	12/29/10		7.97	8.48	0.51						
MW-30	1/5/11		7.74	8.40	0.66						
MW-30	5-Jan-11^		8.19	8.20	0.01						
MW-30	1/10/11			7.80							
MW-30	1/13/11		7.86	8.73	0.87						
MW-30	13-Jan-11^			8.29							
MW-30	1/17/11		7.88	8.84	0.96						
MW-30	1/28/11		7.91	8.95	1.04						
MW-30	28-Jan-11^		8.25	8.27	0.02						
MW-30	2/7/11		7.97	9.09	1.12						
MW-30	2/22/11		7.35	7.37	0.02						
MW-30	3/2/11		7.56	7.58	0.02						
MW-30	3/7/11		7.46	7.49	0.03						
MW-30	3/14/11		7.48	7.49	0.01						
MW-30	3/21/11		6.99	7.00	0.01						
MW-30	3/28/11			7.43							
MW-30	4/5/11		7.56	7.58	0.02						
MW-30	4/12/11		7.49	7.51	0.02						
MW-30	4/14/11			7.55							
MW-30	4/19/11			7.20							
MW-30	4/26/11		Sheen	6.96	Sheen						
MW-30	5/5/11			7.44							
MW-30	5/11/11		7.58	7.60	0.02						
MW-30	5/17/11		7.61	7.63	0.02						
MW-30	5/23/11			7.23							
MW-30	6/2/11			7.33							
MW-30	6/27/11		7.62	7.64	0.02						
MW-30	7/6/11		7.76	7.78	0.02						
MW-30	7/18/11		7.91	7.93	0.02						
MW-30	7/26/11		7.57	7.59	0.02						
MW-30	8/2/11		7.55	7.57	0.02						
MW-30	8/9/11		7.50	7.53	0.03						
MW-30	8/15/11		7.62	7.64	0.02						
MW-30	8/22/11			7.54							
MW-30	8/29/11		7.66	7.69	0.03						
MW-30	9/7/11		7.76	7.80	0.04						
MW-30	9/13/11		7.84	7.89	0.05						
MW-30	9/20/11		7.79	7.81	0.02						
MW-30	9/27/11			7.59							
MW-30	10/3/11			7.65							
MW-30	10/11/11			7.71							
MW-30	10/18/11		7.77	7.80	0.03						
MW-30	10/25/11		7.70	7.71	0.01						
MW-30	11/4/11		7.66	7.70	0.04						
MW-30	11/10/11		7.45	7.47	0.02						
MW-30	11/21/11		7.64	7.65	0.01						
MW-30	11/30/11		7.63	7.66	0.03						
MW-30	12/6/11		7.53	7.55	0.02						
MW-30	12/12/11		7.66	7.69	0.03						
MW-30	12/19/11			7.60							
MW-30	12/29/11			7.45							
MW-30	1/9/12			7.72							
MW-30	1/17/12			7.80							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-30	1/23/12		7.58	7.59	0.01						
MW-30	1/31/12			7.59							
MW-30	2/6/12			7.80							
MW-30	2/13/12			7.75							
MW-30	2/21/12			7.73							
MW-30	2/28/12			7.53							
MW-30	3/9/12			7.60							
MW-30	3/23/12			7.61							
MW-30	3/27/12			7.58							
MW-30	4/5/12			7.72							
MW-30	4/10/12		7.76	7.77	0.01						
MW-30	4/16/12			7.36							
MW-30	4/24/12		7.59	7.60	0.01						
MW-30	5/4/12		7.56	7.57	0.01						
MW-30	5/10/12			7.52							
MW-30	5/16/12			7.67							
MW-30	5/25/12			7.69							
MW-30	5/29/12			7.76							
MW-30	6/8/12			7.73							
MW-30	6/14/12			7.82							
MW-30	6/19/12		7.85	7.86	0.01						
MW-30	6/29/12		7.98	7.99	0.01						
MW-30	7/3/12		8.01	8.02	0.01						
MW-30	7/11/12		8.10	8.11	0.01						
MW-30	7/16/12			8.14							
MW-30	8/1/12			8.06							
MW-30	8/10/12			8.00							
MW-30	9/7/12		8.14	8.15	0.01						
MW-30	9/13/12			8.18							
MW-30	10/3/12		8.28	8.46	0.18						
MW-30	11/27/12		8.21	8.97	0.76						
MW-30	12/3/12		8.72	9.50	0.78						
MW-30	12/6/12		8.39	8.75	0.36						
MW-30	6-Dec-12^		8.46	8.47	0.01						
MW-30	12/10/12		8.21	8.91	0.70						
MW-30	10-Dec-12^			8.52							
MW-30	12/14/12		8.33	9.41	1.08						
MW-30	14-Dec-12^			8.61							
MW-30	12/18/12		8.06	8.86	0.80						
MW-30	12/27/12		8.07	8.40	0.33						
MW-30	1/7/13		8.21	8.84	0.63						
MW-30	1/14/13		8.07	8.55	0.48						
MW-30	1/21/13		8.21	8.68	0.47						
MW-30	1/28/13		8.29	8.68	0.39						
MW-30	2/6/13		8.05	8.06	0.01						
MW-30	2/11/13		7.70	7.80	0.10						
MW-30	2/18/13		7.94	7.95	0.01						
MW-30	2/27/13		7.95	7.97	0.02						
MW-30	3/4/13		7.93	7.94	0.01						
MW-30	3/25/13			7.81							
MW-30	4/4/13			7.90							
MW-30	4/8/13			7.90							
MW-30	4/15/13			7.55							
MW-30	4/22/13			7.15							
MW-30	5/8/13			7.62							
MW-30	5/23/13			7.68							
MW-30	7/3/13			7.58							
MW-30	10/2/13		8.10	8.11	0.01						
MW-30	10/3/13			8.11			6.430	4.170	0.314	9.720	<0.0186
MW-31	5/19/09			7.36							
MW-31	6/17/09		7.36	7.86	0.50						
MW-31	7/16/09		7.80	7.82	0.02						
MW-31	7/27/09		7.83	7.87	0.04						
MW-31	8/11/09		7.87	7.90	0.03						
MW-31	8/18/09		7.66	8.32	0.66						
MW-31	8/25/09		7.71	8.03	0.32						
MW-31	9/1/09		7.54	7.87	0.33						
MW-31	9/10/09		7.66	8.03	0.37						
MW-31	9/17/09		7.81	7.86	0.05						
MW-31	9/24/09			7.83							
MW-31	10/1/09			7.81							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-31	10/7/09		7.70	7.71	0.01						
MW-31	10/23/09		8.02	8.03	0.01						
MW-31	10/28/09		7.69	7.73	0.04						
MW-31	11/9/09		7.75	7.96	0.21						
MW-31	11/24/09		7.80	7.81	0.01						
MW-31	12/3/09		7.83	7.94	0.11						
MW-31	12/8/09		7.81	7.90	0.09						
MW-31	12/17/09		7.67	7.69	0.02						
MW-31	12/22/09		7.80	8.13	0.33						
MW-31	12/28/09		7.95	8.03	0.08						
MW-31	1/6/10		7.47	7.57	0.10						
MW-31	1/11/10		7.40	7.50	0.10						
MW-31	1/19/10		7.41	7.50	0.09						
MW-31	1/25/10			7.23							
MW-31	2/2/10			7.65							
MW-31	2/8/10		7.61	7.88	0.27						
MW-31	2/16/10		7.77	7.97	0.20						
MW-31	2/22/10		7.56	7.91	0.35						
MW-31	3/1/10		7.54	7.82	0.28						
MW-31	3/8/10		7.46	7.68	0.22						
MW-31	3/18/10		7.28	7.36	0.08						
MW-31	3/24/10		7.30	7.36	0.06						
MW-31	3/29/10		7.32	7.37	0.05						
MW-31	4/21/10		7.40	7.49	0.09						
MW-31	4/27/10		7.54	7.63	0.09						
MW-31	5/4/10		7.41	7.43	0.02						
MW-31	5/10/10		7.39	7.43	0.04						
MW-31	5/19/10		7.43	7.75	0.32						
MW-31	6/2/10		7.20	7.22	0.02						
MW-31	6/8/10		7.21	7.23	0.02						
MW-31	6/16/10		7.19	7.21	0.02						
MW-31	6/22/10		6.22	6.24	0.02						
MW-31	6/30/10		6.21	6.23	0.02						
MW-31	7/6/10		6.22	6.24	0.02						
MW-31	7/13/10		6.21	6.23	0.02						
MW-31	7/20/10		6.22	6.24	0.02						
MW-31	7/27/10		6.24	6.26	0.02						
MW-31	8/18/10		6.20	6.23	0.03						
MW-31	8/24/10		6.18	6.21	0.03						
MW-31	8/31/10		6.20	6.23	0.03						
MW-31	9/21/10		6.18	6.21	0.03						
MW-31	9/30/10		6.18	6.21	0.03						
MW-31	10/12/10		6.16	6.19	0.03						
MW-31	11/3/10		7.88	8.27	0.39						
MW-31	11/15/10		7.73	8.11	0.38						
MW-31	12/2/10		7.76	8.13	0.37						
MW-31	12/10/10		7.73	8.10	0.37						
MW-31	12/22/10			6.10							
MW-31	12/27/10			6.11							
MW-31	1/10/11			7.85							
MW-31	1/13/11		8.09	8.74	0.65						
MW-31	13-Jan-11^		8.10	8.12	0.02						
MW-31	1/17/11		8.02	8.51	0.49						
MW-31	1/26/11		7.92	8.63	0.71						
MW-31	28-Jan-11^		7.95	8.83	0.88						
MW-31	2/22/11		6.67	6.69	0.02						
MW-31	3/2/11		7.77	7.80	0.03						
MW-31	3/7/11		7.68	7.71	0.03						
MW-31	3/14/11		7.40	7.58	0.18						
MW-31	3/21/11			7.05							
MW-31	3/28/11			6.32							
MW-31	4/5/11			6.30							
MW-31	4/12/11		7.56	7.60	0.04						
MW-31	4/14/11		7.85	7.89	0.04						
MW-31	4/19/11		7.74	7.76	0.02						
MW-31	4/26/11			6.98							
MW-31	5/5/11		7.00	7.76	0.76						
MW-31	5/11/11			6.96							
MW-31	5/17/11			6.98							
MW-31	5/23/11			6.96							
MW-31	6/2/11			7.30							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-31	6/27/11		7.49	7.91	0.42						
MW-31	7/6/11		7.64	7.89	0.25						
MW-31	7/18/11		7.78	7.81	0.03						
MW-31	7/26/11		7.51	7.60	0.09						
MW-31	8/2/11		7.54	7.61	0.07						
MW-31	8/9/11		7.43	7.54	0.11						
MW-31	8/15/11		7.51	7.53	0.02						
MW-31	8/22/11			7.41							
MW-31	8/29/11		7.51	7.52	0.01						
MW-31	9/7/11		7.65	7.66	0.01						
MW-31	9/13/11		7.64	7.68	0.04						
MW-31	9/20/11			7.80							
MW-31	9/27/11			7.92							
MW-31	10/3/11			7.96							
MW-31	10/11/11			8.04							
MW-31	10/18/11		7.68	7.78	0.10						
MW-31	10/25/11		7.62	7.72	0.10						
MW-31	11/4/11		7.61	7.69	0.08						
MW-31	11/10/11		7.51	7.56	0.05						
MW-31	11/30/11		7.54	7.68	0.14						
MW-31	12/6/11			7.44							
MW-31	12/12/11		7.58	7.70	0.12						
MW-31	12/19/11		7.51	7.61	0.10						
MW-31	12/29/11			7.83							
MW-31	1/9/12			7.59							
MW-31	1/17/12			7.63							
MW-31	1/23/12		7.52	7.56	0.04						
MW-31	1/31/12		7.51	7.59	0.08						
MW-31	2/6/12		7.56	7.59	0.03						
MW-31	2/13/12		7.65	7.77	0.12						
MW-31	2/21/12		7.67	7.68	0.01						
MW-31	2/28/12		7.49	7.52	0.03						
MW-31	3/9/12		7.60	7.61	0.01						
MW-31	3/23/12		7.55	7.58	0.03						
MW-31	3/27/12		7.51	7.56	0.05						
MW-31	4/5/12		7.85	7.87	0.02						
MW-31	4/10/12		7.85	7.86	0.01						
MW-31	4/16/12		7.44	7.45	0.01						
MW-31	4/24/12			7.65							
MW-31	5/4/12		7.57	7.58	0.01						
MW-31	5/10/12		7.53	7.54	0.01						
MW-31	5/25/12			7.63							
MW-31	5/29/12		7.83	7.91	0.08						
MW-31	6/8/12		7.83	7.87	0.04						
MW-31	6/14/12		7.86	7.88	0.02						
MW-31	6/19/12		7.90	7.92	0.02						
MW-31	6/29/12		7.91	7.92	0.01						
MW-31	7/3/12		7.92	7.93	0.01						
MW-31	7/11/12		8.20	8.33	0.13						
MW-31	7/16/12		8.15	8.30	0.15						
MW-31	8/1/12		8.03	8.07	0.04						
MW-31	8/10/12		7.91	8.15	0.24						
MW-31	9/7/12			8.30							
MW-31	9/13/122			8.20							
MW-31	10/3/12			8.32							
MW-31	11/27/12		8.45	8.75	0.30						
MW-31	12/3/12		8.22	8.57	0.35						
MW-31	12/6/12		8.75	8.90	0.15						
MW-31	6-Dec-12^		8.32	8.45	0.13						
MW-31	12/10/12		8.38	8.80	0.42						
MW-31	10-Dec-12^			8.45							
MW-31	12/14/12		8.40	8.90	0.50						
MW-31	14-Dec-12^		8.44	8.46	0.02						
MW-31	12/18/12		8.27	8.55	0.28						
MW-31	12/27/12		8.22	8.30	0.08						
MW-31	1/7/13		8.35	8.36	0.01						
MW-31	1/14/13		Sheen	7.97	Sheen						
MW-31	1/28/13		8.19	8.62	0.43						
MW-31	2/6/13		8.00	8.08	0.08						
MW-31	2/11/13		7.65	7.66	0.01						
MW-31	2/18/13			7.89							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
MW-31	2/27/13			7.82							
MW-31	3/4/13		7.89	7.90	0.01						
MW-31	4/25/13			7.55							
MW-32	5/19/09			7.43							
MW-32	7/16/09			7.69							
MW-32	8/25/09			7.72							
MW-32	9/1/09			7.58							
MW-32	9/10/09			7.74							
MW-32	9/17/09			7.81							
MW-32	9/24/09			7.78							
MW-32	10/1/09			7.83							
MW-32	10/7/09			7.67							
MW-32	10/23/09			7.43							
MW-32	6/22/10			7.49							
MW-32	6/30/10			7.48							
MW-32	7/6/10			7.58							
MW-32	7/13/10			7.57							
MW-32	7/20/10			7.67							
MW-32	7/27/10			7.45							
MW-32	8/18/10			7.52							
MW-32	8/24/10			7.56							
MW-32	8/31/10		7.67	7.69	0.02						
MW-32	9/21/10			7.68							
MW-32	9/30/10			7.54							
MW-32	10/12/10			7.83							
MW-32	11/3/10			7.82							
MW-32	11/15/10			7.91							
MW-32	12/2/10			7.84							
MW-32	12/10/10			7.81							
MW-32	12/22/10			7.92							
MW-32	12/27/10			7.96							
MW-32	1/10/11			7.88							
MW-32	3/2/11			7.51							
MW-32	4/14/11			7.51			**0.757**	0.174	0.0903	0.343	0.0104
MW-32	12/3/12			8.29							
MW-32	12/6/12			8.40							
MW-32	12/10/12			8.38							
MW-32	12/14/12			8.35							
MW-32	12/18/12			8.14							
MW-32	12/27/12			8.05							
MW-32	1/7/13			8.21							
MW-32	1/14/13			8.05							
MW-32	1/28/13			8.15							
MW-32	2/6/13			7.98							
MW-32	2/11/13			7.58							
MW-32	2/18/13			7.85							
MW-32	2/27/13			7.88							
MW-32	3/4/13			7.83							
MW-32	3/25/13			7.73							
MW-32	4/4/13			7.82							
MW-32	4/8/13			7.85							
MW-32	4/15/13			7.17							
MW-32	5/8/13			7.55							
MW-32	5/23/13			7.60							
MW-32	10/2/13			7.99							
MW-32	10/3/13						**0.583**	0.0172	0.265	0.357	0.0023 J
MW-32	5/7/15			7.62			**0.0086 J**	0.0096 J	0.114	1.150	<0.0097
RW-1	1/6/09						**0.764**	<0.005	0.0052	<0.015	0.0118
RW-1	5/19/09			6.10							
RW-1	8/25/09			6.39							
RW-1	9/1/09			6.22							
RW-1	9/10/09			6.35							
RW-1	9/17/09			6.38							
RW-1	9/24/09			6.35							
RW-1	10/1/09			6.40							
RW-1	10/7/09			6.27							
RW-1	10/23/09			6.03							
RW-1	1/10/11			6.49							
RW-1	4/14/11			6.12			**1.09**	0.0196	0.007	0.0361	0.0076
RW-1	12/3/12			7.20							
RW-1	12/6/12			6.38							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-1	12/10/12			6.30							
RW-1	12/14/12			6.35							
RW-1	12/18/12			6.20							
RW-1	12/27/12			6.19							
RW-1	1/7/13			6.30							
RW-1	1/14/13			6.10							
RW-1	1/28/13			6.13							
RW-1	2/6/13			6.91							
RW-1	2/11/13			6.55							
RW-1	2/18/13			6.78							
RW-1	2/21/13	110.00	Sheen	6.74	Sheen	103.26	**1.520**	0.245	0.0399	0.223	<0.0019
RW-1	2/27/13	110.00	Sheen	6.80	Sheen	103.20					
RW-1	3/4/13	110.00		6.78		103.22					
RW-1	3/25/13	110.00	Sheen	6.68	Sheen	103.32					
RW-1	4/4/13	110.00	Sheen	6.74	Sheen	103.26					
RW-1	4/8/13	110.00		6.72		103.28					
RW-1	4/15/13	110.00	Sheen	6.42	Sheen	103.58					
RW-1	4/22/13	110.00		6.09		103.91					
RW-1	5/8/13	110.00		6.43		103.57					
RW-1	5/23/13	110.00	Sheen	6.64	Sheen	103.36					
RW-1	7/3/13	110.00		6.45		103.55					
RW-1	5/5/15	110.00					**0.200**	0.0343	0.130	0.506	<0.0024
RW-1	5/7/15	110.00		7.12		102.88					
RW-1 ('04)	4/21/05	108.01		4.58		103.43	**0.44**	0.0097	0.028	0.11	0.01
RW-1 ('04)	12/29/08	108.01		2.42		105.59					
RW-1 ('04)	1/5/09	108.01		3.93		104.08					
RW-1 ('04)	1/10/11	108.01		5.35		102.66					
RW-1 ('04)	12/6/12	108.01		4.96		103.05					
RW-1 ('04)	12/10/12	108.01		4.76		103.25					
RW-1 ('04)	12/14/12	108.01		4.85		103.16					
RW-1 ('04)	12/18/12	108.01	Sheen	4.70	Sheen	103.31					
RW-1 ('04)	12/27/12	108.01		4.60		103.41					
RW-1 ('04)	1/7/13	108.01		4.78		103.23					
RW-1 ('04)	1/14/13	108.01		4.62		103.39					
RW-1 ('04)	1/28/13	108.01		4.52		103.49					
RW-1 ('04)	2/6/13	108.01		4.59		103.42					
RW-1 ('04)	2/11/13	108.01		4.60		103.41					
RW-1 ('04)	2/18/13	108.01		4.30		103.71					
RW-1 ('04)	2/21/13	108.11		4.13		103.98	**0.0064**	0.0258	0.0076	0.0598	<0.00038
RW-1 ('04)	2/27/13	108.11		4.39		103.72					
RW-1 ('04)	3/4/13	108.11		4.40		103.71					
RW-1 ('04)	3/25/13	108.11		4.15		103.96					
RW-1 ('04)	4/4/13	108.11		4.36		103.75					
RW-1 ('04)	4/8/13	108.11		4.45		103.66					
RW-1 ('04)	4/15/13	108.11		3.15		104.96					
RW-1 ('04)	4/22/13	108.11		2.80		105.31					
RW-1 ('04)	5/8/13	108.11		4.11		104.00					
RW-1 ('04)	5/23/13	108.11		4.18		103.93					
RW-1 ('04)	7/3/13	108.11		4.17		103.94					
RW-1 ('04)	5/5/15	108.11					**0.0610**	0.00073 J	<0.00039	<0.0012	<0.00048
RW-1 ('04)	5/7/15	108.11		5.35		102.76					
RW-2	4/1/09			9.40							
RW-2	5/19/09			9.70							
RW-2	7/16/09			9.72							
RW-2	8/18/09			9.72							
RW-2	8/25/09			9.73							
RW-2	9/1/09			9.72							
RW-2	9/10/09			9.72							
RW-2	9/17/09			9.73							
RW-2	9/24/09			9.74							
RW-2	10/1/09			9.73							
RW-2	10/7/09			9.72							
RW-2	10/23/09			9.72							
RW-2	6/22/10		9.72	9.73	0.01						
RW-2	6/30/10		9.72	9.73	0.01						
RW-2	7/6/10			9.73							
RW-2	7/13/10			9.72							
RW-2	7/20/10			9.73							
RW-2	7/27/10			9.72							
RW-2	8/18/10			9.72							
RW-2	8/24/10			9.72							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-2	8/31/10			9.74							
RW-2	9/21/10			9.78							
RW-2	9/30/10			9.76							
RW-2	10/12/10			9.72							
RW-2	11/3/10			9.73							
RW-2	11/15/10			9.81							
RW-2	12/2/10			9.75							
RW-2	12/10/10			9.80							
RW-2	12/22/10			9.20							
RW-2	12/27/10			9.75							
RW-2	12/29/10			9.76							
RW-2	1/5/11			9.75							
RW-2	1/10/11			9.71							
RW-2	3/2/11			9.76							
RW-2	4/14/11			9.72							
RW-2	12/3/12			6.75							
RW-2	12/6/12			6.72							
RW-2	12/10/12			6.78							
RW-2	12/14/12			6.45							
RW-2	12/18/12			6.78							
RW-2	12/27/12			6.79							
RW-2	1/7/13		Sheen	6.75	Sheen						
RW-2	1/14/13			6.78							
RW-2	1/28/13			6.78							
RW-2	2/6/13			6.78							
RW-2	2/11/13			6.80							
RW-2	2/18/13			7.83							
RW-2	2/21/13			6.80							
RW-2	3/4/13			DRY							
RW-2	3/25/13			DRY							
RW-2	4/15/13			DRY							
RW-2	4/22/13			DRY							
RW-2	5/8/13			6.72							
RW-3	5/19/09			7.20							
RW-3	6/17/09		7.20	7.34	0.14						
RW-3	7/16/09		7.52	7.53	0.01						
RW-3	7/27/09		7.50	7.52	0.02						
RW-3	8/18/09		7.58	7.59	0.01						
RW-3	8/25/09		7.55	7.57	0.02						
RW-3	9/1/09		7.34	7.47	0.13						
RW-3	9/10/09		7.71	7.72	0.01						
RW-3	9/17/09		7.70	7.71	0.01						
RW-3	9/24/09		7.58	7.60	0.02						
RW-3	10/1/09		7.69	7.70	0.01						
RW-3	10/7/09		7.48	7.49	0.01						
RW-3	10/23/09		7.43	7.46	0.03						
RW-3	10/28/09		7.38	7.39	0.01						
RW-3	11/9/09		7.53	7.55	0.02						
RW-3	11/24/09		7.55	7.56	0.01						
RW-3	12/3/09		7.40	7.42	0.02						
RW-3	12/8/09		7.42	7.45	0.03						
RW-3	12/17/09		7.42	7.51	0.09						
RW-3	12/22/09		7.65	7.80	0.15						
RW-3	12/28/09		7.16	7.19	0.03						
RW-3	1/6/10		7.58	7.65	0.07						
RW-3	1/11/10		7.50	7.55	0.05						
RW-3	1/19/10		7.52	7.54	0.02						
RW-3	1/25/10		6.98	6.99	0.01						
RW-3	2/2/10		7.86	7.89	0.03						
RW-3	2/8/10		7.45	7.48	0.03						
RW-3	2/16/10		7.56	7.57	0.01						
RW-3	2/22/10		7.52	7.54	0.02						
RW-3	3/1/10			7.40							
RW-3	3/8/10			7.52							
RW-3	3/18/10			7.07							
RW-3	3/24/10			7.12							
RW-3	3/29/10			7.14							
RW-3	4/21/10		7.59	7.60	0.01						
RW-3	4/27/10			7.36							
RW-3	5/4/10		7.34	7.37	0.03						
RW-3	5/10/10		7.35	7.39	0.04						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-3	5/19/10		7.40	7.44	0.04						
RW-3	5/25/10		6.03	6.12	0.09						
RW-3	6/2/10		6.05	6.15	0.10						
RW-3	6/8/10		6.00	6.10	0.10						
RW-3	6/16/10		6.02	6.12	0.10						
RW-3	6/22/10		6.06	6.09	0.03						
RW-3	6/30/10		6.05	6.08	0.03						
RW-3	7/6/10		6.05	6.08	0.03						
RW-3	7/13/10		6.01	6.04	0.03						
RW-3	7/20/10		6.04	6.06	0.02						
RW-3	7/27/10		6.07	6.09	0.02						
RW-3	8/18/10		7.49	7.50	0.01						
RW-3	8/24/10		7.50	7.51	0.01						
RW-3	8/31/10		7.48	7.49	0.01						
RW-3	9/21/10		7.51	7.52	0.01						
RW-3	9/30/10		7.49	7.51	0.02						
RW-3	10/12/10		7.54	7.56	0.02						
RW-3	11/3/10		7.53	8.03	0.50						
RW-3	11/15/10		7.65	8.12	0.47						
RW-3	12/2/10		7.02	7.08	0.06						
RW-3	12/10/10		7.06	7.13	0.07						
RW-3	12/22/10		8.05	8.08	0.03						
RW-3	12/27/10		8.03	8.07	0.04						
RW-3	12/29/10		8.04	8.08	0.04						
RW-3	1/5/11		7.69	8.19	0.50						
RW-3	5-Jan-11^		7.90	7.91	0.01						
RW-3	1/10/11			7.57							
RW-3	1/13/11		7.95	8.46	0.51						
RW-3	13-Jan-11^			8.00							
RW-3	1/17/11		7.60	7.90	0.30						
RW-3	1/28/11		7.69	8.34	0.65						
RW-3	28-Jan-11^		7.95	8.05	0.10						
RW-3	2/7/11			7.83							
RW-3	2/22/11		7.06	7.19	0.13						
RW-3	3/2/11		7.45	7.49	0.04						
RW-3	3/7/11		7.32	7.34	0.02						
RW-3	3/14/11		7.20	7.21	0.01						
RW-3	3/21/11			8.00							
RW-3	3/28/11			7.05							
RW-3	4/5/11			7.07							
RW-3	4/12/11		7.42	7.43	0.01						
RW-3	4/14/11		7.24	7.25	0.01						
RW-3	4/19/11			7.18							
RW-3	4/26/11		6.71	6.72	0.01						
RW-3	5/5/11		7.05	7.07	0.02						
RW-3	5/11/11		7.29	7.30	0.01						
RW-3	5/17/11			7.30							
RW-3	5/23/11			7.22							
RW-3	6/2/11		7.04	7.05	0.01						
RW-3	6/27/11		7.32	7.34	0.02						
RW-3	7/6/11		7.46	7.50	0.04						
RW-3	7/18/11		7.82	7.83	0.01						
RW-3	7/26/11			7.43							
RW-3	8/2/11			7.20							
RW-3	8/9/11			7.30							
RW-3	8/15/11			7.35							
RW-3	8/22/11			7.38							
RW-3	8/29/11		7.49	7.50	0.01						
RW-3	9/7/11			7.60							
RW-3	9/13/11			7.90							
RW-3	9/20/11			7.82							
RW-3	9/27/11			7.90							
RW-3	10/3/11			7.96							
RW-3	10/11/11			8.03							
RW-3	10/18/11			7.50							
RW-3	10/25/11			7.45							
RW-3	11/4/11			7.41							
RW-3	11/10/11			7.55							
RW-3	11/21/11			7.49							
RW-3	11/30/11			7.33							
RW-3	12/6/11			7.24							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-3	12/12/11			7.37							
RW-3	12/19/11		7.29	7.30	0.01						
RW-3	12/29/11			7.42							
RW-3	1/9/12			7.39							
RW-3	1/17/12			7.38							
RW-3	1/23/12			7.30							
RW-3	1/31/12			7.29							
RW-3	2/6/12		Sheen	7.30	Sheen						
RW-3	2/13/12		7.43	7.44	0.01						
RW-3	2/21/12		Sheen	7.42	Sheen						
RW-3	2/28/12		Sheen	7.24	Sheen						
RW-3	3/9/12			7.32							
RW-3	3/23/12		Sheen	7.32	Sheen						
RW-3	3/27/12			7.29							
RW-3	4/5/12			7.42							
RW-3	4/10/12			7.49							
RW-3	4/16/12		7.06	7.07	0.01						
RW-3	4/24/12			7.30							
RW-3	5/4/12			7.27							
RW-3	5/10/12		Sheen	7.21	Sheen						
RW-3	5/16/12			7.38							
RW-3	5/25/12			7.42							
RW-3	5/29/12			7.46							
RW-3	6/8/12			7.43							
RW-3	6/14/12			7.54							
RW-3	6/19/12			7.54							
RW-3	6/29/12			7.68							
RW-3	7/3/12			7.74							
RW-3	7/11/12			7.78							
RW-3	7/16/12		7.81	7.82	0.01						
RW-3	8/1/12			7.78							
RW-3	8/10/12		Sheen	7.69	Sheen						
RW-3	9/7/12		Sheen	7.85	Sheen						
RW-3	9/13/12			7.89							
RW-3	10/3/12			8.02							
RW-3	11/27/12		7.47	8.40	0.93						
RW-3	12/3/12		7.47	8.45	0.98						
RW-3	12/6/12		7.75	8.55	0.80						
RW-3	6-Dec-12^		7.75	7.78	0.03						
RW-3	12/10/12		7.53	8.12	0.59						
RW-3	10-Dec-12^		8.00	8.02	0.02						
RW-3	12/14/12		7.55	8.51	0.96						
RW-3	14-Dec-12^			7.90							
RW-3	12/18/12		7.40	8.05	0.65						
RW-3	12/27/12		7.38	7.58	0.20						
RW-3	1/7/13		7.50	7.51	0.01						
RW-3	1/14/13		Sheen	7.37	Sheen						
RW-3	1/21/13			7.49							
RW-3	1/28/13		7.51	8.17	0.66						
RW-3	2/6/13			7.39							
RW-3	2/11/13			7.03							
RW-3	2/18/13			7.22							
RW-3	2/21/13	111.11		7.21		103.90	4.930	9.090	1.590	10.600	<0.0190
RW-3	2/27/13	111.11		7.26		103.85					
RW-3	3/4/13	111.11	7.22	7.23	0.01	103.89					
RW-3	3/25/13	111.11		7.14		103.97					
RW-3	4/4/13	111.11		7.20		103.91					
RW-3	4/8/13	111.11		7.01		104.10					
RW-3	4/15/13	111.11		6.87		104.24					
RW-3	4/22/13	111.11		6.46		104.65					
RW-3	5/8/13	111.11		6.94		104.17					
RW-3	5/23/13	111.11		6.97		104.14					
RW-3	7/3/13	111.11		6.87		104.24					
RW-3	5/5/15	111.11				111.11	<0.00040	<0.00039	<0.00039	<0.0012	<0.00048
RW-3	5/7/15	111.11		8.51		102.60					
RW-4	5/19/09			7.36							
RW-4	6/17/09			7.37							
RW-4	7/16/09			7.63							
RW-4	8/11/09		7.53	7.57	0.04						
RW-4	8/18/09		7.70	7.71	0.01						
RW-4	8/25/09		7.70	7.71	0.01						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-4	9/1/09		7.51	7.53	0.02						
RW-4	9/10/09		7.68	7.70	0.02						
RW-4	9/17/09			7.76							
RW-4	9/24/09		7.68	7.70	0.02						
RW-4	10/1/09		7.73	7.74	0.01						
RW-4	10/7/09		7.58	7.60	0.02						
RW-4	10/23/09		7.35	7.40	0.05						
RW-4	10/28/09		7.39	7.50	0.11						
RW-4	11/9/09		7.55	7.56	0.01						
RW-4	11/24/09		7.65	7.83	0.18						
RW-4	12/3/09		7.58	7.70	0.12						
RW-4	12/8/09		7.60	7.74	0.14						
RW-4	12/17/09		7.55	7.63	0.08						
RW-4	12/22/09		7.61	7.75	0.14						
RW-4	12/28/09		7.16	7.27	0.11						
RW-4	1/6/10		7.50	7.60	0.10						
RW-4	1/11/10		7.58	7.71	0.13						
RW-4	1/19/10		7.62	7.73	0.11						
RW-4	1/25/10		7.14	7.21	0.07						
RW-4	2/2/10		7.48	7.60	0.12						
RW-4	2/8/10		7.56	7.74	0.18						
RW-4	2/16/10		7.60	7.80	0.20						
RW-4	2/22/10		7.50	7.63	0.13						
RW-4	3/1/10		7.51	7.61	0.10						
RW-4	3/8/10		7.38	7.45	0.07						
RW-4	3/18/10		7.18	7.30	0.12						
RW-4	3/24/10		7.26	7.38	0.12						
RW-4	3/29/10		7.34	7.49	0.15						
RW-4	4/21/10		7.42	7.61	0.19						
RW-4	4/27/10		7.43	7.60	0.17						
RW-4	5/4/10		7.43	7.60	0.17						
RW-4	5/10/10		7.41	7.56	0.15						
RW-4	5/19/10		7.25	7.37	0.12						
RW-4	5/25/10		7.35	7.49	0.14						
RW-4	6/2/10		7.35	7.52	0.17						
RW-4	6/8/10		7.31	7.43	0.12						
RW-4	6/16/10		7.37	7.54	0.17						
RW-4	6/22/10		7.36	7.53	0.17						
RW-4	6/30/10		7.36	7.52	0.16						
RW-4	7/6/10			7.48							
RW-4	7/13/10		7.45	7.68	0.23						
RW-4	7/20/10		7.54	7.82	0.28						
RW-4	7/27/10		7.33	7.51	0.18						
RW-4	8/18/10		7.38	7.68	0.30						
RW-4	8/24/10		7.43	7.75	0.32						
RW-4	8/31/10		7.53	7.92	0.39						
RW-4	9/21/10		7.54	7.92	0.38						
RW-4	9/30/10		7.53	7.61	0.08						
RW-4	10/12/10		7.68	8.06	0.38						
RW-4	11/3/10		7.68	8.10	0.42						
RW-4	11/15/10		7.72	8.08	0.36						
RW-4	12/2/10		7.65	8.35	0.70						
RW-4	12/10/10		7.62	8.33	0.71						
RW-4	12/22/10		7.75	8.62	0.87						
RW-4	12/27/10		7.73	8.63	0.90						
RW-4	12/29/10		8.37	8.65	0.28						
RW-4	1/5/11		7.59	8.32	0.73						
RW-4	5-Jan-11^		7.93	7.95	0.02						
RW-4	1/13/11		7.89	8.15	0.26						
RW-4	13-Jan-11^		7.99	8.02	0.03						
RW-4	1/17/11			7.93							
RW-4	1/28/11		7.83	8.68	0.85						
RW-4	28-Jan-11^			8.23							
RW-4	2/7/11		8.05	8.08	0.03						
RW-4	2/22/11			7.25							
RW-4	3/2/11		7.41	7.42	0.01						
RW-4	3/7/11		7.28	7.29	0.01						
RW-4	3/14/11			7.38							
RW-4	3/21/11		7.01	7.02	0.01						
RW-4	3/28/11			7.30							
RW-4	4/5/11		7.43	7.44	0.01						

Table 2

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Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-4	4/12/11			7.38							
RW-4	4/14/11			7.42			10.2	16.3	1.69	11.8	<0.125
RW-4	4/19/11			7.08							
RW-4	4/26/11			6.91							
RW-4	5/5/11			7.32							
RW-4	5/11/11			7.45							
RW-4	5/17/11			7.47							
RW-4	5/23/11			7.15							
RW-4	6/2/11			7.20							
RW-4	6/27/11		7.45	7.51	0.06						
RW-4	7/6/11		7.60	7.65	0.05						
RW-4	7/18/11		7.72	7.78	0.06						
RW-4	7/26/11		7.40	7.43	0.03						
RW-4	8/2/11		7.40	7.44	0.04						
RW-4	8/9/11		7.34	7.35	0.01						
RW-4	8/15/11		7.45	7.51	0.06						
RW-4	8/22/11			7.38							
RW-4	8/29/11			1.48							
RW-4	9/7/11			7.52							
RW-4	9/13/11		7.67	7.80	0.13						
RW-4	9/20/11		7.62	7.73	0.11						
RW-4	9/27/11		7.41	7.43	0.02						
RW-4	10/3/11		7.51	7.53	0.02						
RW-4	10/11/11		7.52	7.54	0.02						
RW-4	10/18/11		7.60	7.68	0.08						
RW-4	10/25/11		7.53	7.59	0.06						
RW-4	11/4/11		7.52	7.55	0.03						
RW-4	11/10/11		Sheen	7.29	Sheen						
RW-4	11/21/11		7.48	7.50	0.02						
RW-4	11/30/11		7.50	7.51	0.01						
RW-4	12/6/11			7.39							
RW-4	12/12/11		7.53	7.54	0.01						
RW-4	12/19/11			7.44							
RW-4	1/9/12			7.42							
RW-4	1/17/12			7.45							
RW-4	1/23/12			7.45							
RW-4	1/31/12			7.45							
RW-4	2/6/12		Sheen	7.43	Sheen						
RW-4	2/13/12		Sheen	7.59	Sheen						
RW-4	2/21/12			7.58							
RW-4	2/28/12		Sheen	7.40	Sheen						
RW-4	3/9/12			7.38							
RW-4	3/23/12		Sheen	7.46	Sheen						
RW-4	3/27/12			7.43							
RW-4	4/5/12			7.55							
RW-4	4/10/12			7.61							
RW-4	4/16/12			7.25							
RW-4	4/24/12			7.45							
RW-4	5/4/12			7.43							
RW-4	5/10/12			7.37							
RW-4	5/16/12			7.49							
RW-4	5/25/12			7.54							
RW-4	5/29/12		7.59	7.62	0.03						
RW-4	6/8/12			7.58							
RW-4	6/14/12		7.56	7.57	0.01						
RW-4	6/19/12		7.58	7.60	0.02						
RW-4	6/29/12			7.81							
RW-4	7/3/12			7.91							
RW-4	7/11/12			7.92							
RW-4	7/16/12			7.95							
RW-4	8/1/12			7.64							
RW-4	8/10/12			7.79							
RW-4	9/7/12			7.92							
RW-4	9/13/12			7.98							
RW-4	10/3/12		8.09	8.10	0.01						
RW-4	11/27/12			7.67							
RW-4	12/3/12		7.69	8.05	0.36						
RW-4	12/6/12		7.92	8.18	0.26						
RW-4	6-Dec-12^		7.80	7.92	0.12						
RW-4	12/10/12		7.75	7.78	0.03						
RW-4	10-Dec-12^		7.70	7.71	0.01						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-4	12/14/12		7.83	7.85	0.02						
RW-4	12/18/12			7.65							
RW-4	12/27/12			7.55							
RW-4	1/7/13			7.71							
RW-4	1/14/13		Sheen	7.54	Sheen						
RW-4	1/21/13			7.68							
RW-4	1/28/13			7.75							
RW-4	2/6/13		Sheen	7.47	Sheen						
RW-4	2/11/13		Sheen	7.15	Sheen						
RW-4	2/18/13			7.35							
RW-4	2/21/13	111.35	Sheen	7.30	Sheen	104.05	**1.250**	**1.930**	0.481	5.240	<0.0076
RW-4	2/27/13	111.35	Sheen	7.31	Sheen	104.04					
RW-4	3/4/13	111.35		7.33		104.02					
RW-4	3/25/13	111.35		6.95		104.40					
RW-4	4/4/13	111.35		7.26		104.09					
RW-4	4/8/13	111.35		7.14		104.21					
RW-4	4/15/13	111.35		6.81		104.54					
RW-4	4/22/13	111.35		6.41		104.94					
RW-4	5/8/13	111.35	7.01	7.02	0.01	104.34					
RW-4	5/23/13	111.35		7.03		104.32					
RW-4	7/3/13	111.35		6.96		104.39					
RW-4	5/5/15	111.35				111.35	**0.207**	0.0381	0.287	1.510	<0.0097
RW-4	5/7/15	111.35		7.33		104.02					
RW-5	5/19/09		6.93	8.40	1.47						
RW-5	6/17/09		7.01	8.13	1.12						
RW-5	7/16/09			7.51							
RW-5	8/11/09		7.51	8.05	0.54						
RW-5	8/18/09		7.38	8.51	1.13						
RW-5	8/25/09		7.37	8.54	1.17						
RW-5	9/1/09		7.18	8.28	1.10						
RW-5	9/10/09		7.31	8.63	1.32						
RW-5	9/17/09		7.39	7.42	0.03						
RW-5	9/24/09		7.39	8.61	1.22						
RW-5	10/1/09		7.44	7.47	0.03						
RW-5	10/7/09			7.35							
RW-5	10/23/09		7.16	7.41	0.25						
RW-5	10/28/09		7.19	7.33	0.14						
RW-5	11/9/09		7.33	7.34	0.01						
RW-5	11/24/09		7.42	8.33	0.91						
RW-5	12/3/09		7.32	8.18	0.86						
RW-5	12/8/09		7.38	8.25	0.87						
RW-5	12/17/09		7.30	8.23	0.93						
RW-5	12/22/09		7.33	7.55	0.22						
RW-5	12/28/09		7.07	7.30	0.23						
RW-5	1/6/10		7.40	7.88	0.48						
RW-5	1/11/10		7.48	7.94	0.46						
RW-5	1/19/10		7.54	7.87	0.33						
RW-5	1/25/10		7.09	7.10	0.01						
RW-5	2/2/10		7.31	7.33	0.02						
RW-5	2/8/10		7.53	8.10	0.57						
RW-5	2/16/10		7.50	8.18	0.68						
RW-5	2/22/10		7.39	7.78	0.39						
RW-5	3/1/10		7.40	7.86	0.46						
RW-5	3/8/10		7.51	7.91	0.40						
RW-5	3/18/10		7.08	7.30	0.22						
RW-5	3/24/10		7.09	7.51	0.42						
RW-5	3/29/10		7.19	7.73	0.54						
RW-5	4/21/10		7.25	7.92	0.67						
RW-5	4/27/10		7.24	7.92	0.68						
RW-5	5/4/10		7.24	7.90	0.66						
RW-5	5/10/10		7.80	7.92	0.12						
RW-5	5/19/10		7.04	7.80	0.76						
RW-5	5/25/10		7.18	7.25	0.07						
RW-5	6/2/10		7.20	7.29	0.09						
RW-5	6/8/10		7.25	7.33	0.08						
RW-5	6/16/10		7.24	7.32	0.08						
RW-5	6/22/10			7.25							
RW-5	6/30/10			7.23							
RW-5	7/6/10			7.31							
RW-5	7/13/10			7.30							
RW-5	7/20/10			7.28							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-5	7/27/10			7.25							
RW-5	8/18/10			7.30							
RW-5	8/24/10			7.26							
RW-5	8/31/10			7.23							
RW-5	9/21/10			7.33							
RW-5	9/30/10			7.26							
RW-5	10/12/10		7.52	7.88	0.36						
RW-5	11/3/10		7.69	8.30	0.61						
RW-5	11/15/10		7.71	8.31	0.60						
RW-5	12/2/10		7.67	8.35	0.68						
RW-5	12/10/10		7.66	8.21	0.55						
RW-5	12/22/10		7.78	8.66	0.88						
RW-5	12/27/10		7.76	8.65	0.89						
RW-5	12/29/10		8.34	8.62	0.28						
RW-5	1/5/11		7.63	8.34	0.71						
RW-5	5-Jan-11^		7.90	7.93	0.03						
RW-5	1/13/11		7.71	8.54	0.83						
RW-5	13-Jan-11^			8.00							
RW-5	1/17/11		7.94	8.34	0.40						
RW-5	1/28/11		7.83	8.68	0.85						
RW-5	28-Jan-11^		8.21	8.23	0.02						
RW-5	2/7/11		7.90	7.92	0.02						
RW-5	2/22/11		7.25	7.26	0.01						
RW-5	3/2/11		7.49	7.51	0.02						
RW-5	3/7/11		7.50	7.52	0.02						
RW-5	3/14/11		7.29	7.30	0.01						
RW-5	3/21/11			6.69							
RW-5	3/28/11			7.17							
RW-5	4/5/11		7.05	7.07	0.02						
RW-5	4/12/11			7.40							
RW-5	4/14/11		7.42	7.43	0.01						
RW-5	4/19/11			7.38							
RW-5	4/26/11			6.81							
RW-5	5/5/11		7.21	7.26	0.05						
RW-5	5/11/11			7.82							
RW-5	5/17/11		7.39	7.47	0.08						
RW-5	5/23/11		7.22	7.27	0.05						
RW-5	6/2/11		7.18	7.22	0.04						
RW-5	6/27/11		7.43	7.60	0.17						
RW-5	7/6/11		7.65	7.67	0.02						
RW-5	7/18/11		7.48	8.33	0.85						
RW-5	7/26/11			7.29							
RW-5	8/2/11		7.28	7.58	0.30						
RW-5	8/9/11		7.25	7.41	0.16						
RW-5	8/15/11		7.32	7.68	0.36						
RW-5	8/22/11		7.27	7.47	0.20						
RW-5	8/29/11		7.36	7.78	0.42						
RW-5	9/7/11		7.44	8.06	0.62						
RW-5	9/13/11		7.47	8.22	0.75						
RW-5	9/20/11		7.52	8.02	0.50						
RW-5	9/27/11		7.95	8.15	0.20						
RW-5	10/3/11		8.05	8.20	0.15						
RW-5	10/11/11		8.23	8.33	0.10						
RW-5	10/18/11		7.66	7.93	0.27						
RW-5	10/25/11		7.76	7.88	0.12						
RW-5	11/4/11		7.70	7.84	0.14						
RW-5	11/10/11		7.46	7.50	0.04						
RW-5	11/21/11		7.44	7.46	0.02						
RW-5	11/30/11		7.41	7.44	0.03						
RW-5	12/6/11			7.31							
RW-5	12/12/11		7.41	7.60	0.19						
RW-5	12/19/11		7.36	7.37	0.01						
RW-5	12/29/11			7.63							
RW-5	1/9/12			7.42							
RW-5	1/17/12			7.45							
RW-5	1/23/12		7.38	7.50	0.12						
RW-5	1/31/12		7.35	7.44	0.09						
RW-5	2/6/12		7.37	7.42	0.05						
RW-5	2/13/12		7.46	7.71	0.25						
RW-5	2/21/12		7.45	7.70	0.25						
RW-5	2/28/12		Sheen	7.31	Sheen						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-5	3/9/12		7.63	7.65	0.02						
RW-5	3/23/12		7.53	7.54	0.01						
RW-5	3/27/12			7.23							
RW-5	4/5/12			7.26							
RW-5	4/10/12			7.30							
RW-5	4/16/12			7.15							
RW-5	4/24/12		7.43	7.44	0.01						
RW-5	5/4/12		7.44	7.45	0.01						
RW-5	5/10/12		Sheen	7.41	Sheen						
RW-5	5/16/12			7.53							
RW-5	5/25/12			7.60							
RW-5	5/29/12		7.63	7.68	0.05						
RW-5	6/8/12			7.62							
RW-5	6/14/12		7.53	7.86	0.33						
RW-5	6/19/12		7.56	7.83	0.27						
RW-5	6/29/12		7.62	7.83	0.21						
RW-5	7/3/12		7.66	7.78	0.12						
RW-5	7/11/12		7.73	7.75	0.02						
RW-5	7/16/12		7.83	7.85	0.02						
RW-5	8/1/12		7.61	7.83	0.22						
RW-5	8/10/12		7.72	7.73	0.01						
RW-5	9/7/12		7.93	7.94	0.01						
RW-5	9/13/12		7.87	7.90	0.03						
RW-5	10/3/12		8.12	8.14	0.02						
RW-5	11/27/12		7.71	8.59	0.88						
RW-5	12/3/12		7.60	8.35	0.75						
RW-5	12/6/12		7.88	8.45	0.57						
RW-5	6-Dec-12^		7.75	7.85	0.10						
RW-5	12/10/12		7.90	7.96	0.06						
RW-5	10-Dec-12^		7.85	7.86	0.01						
RW-5	12/14/12		8.00	8.05	0.05						
RW-5	12/18/12		7.95	8.04	0.09						
RW-5	12/27/12		7.48	7.49	0.01						
RW-5	1/7/13		7.78	7.80	0.02						
RW-5	1/14/13		7.62	7.64	0.02						
RW-5	1/21/13		7.73	7.81	0.08						
RW-5	1/28/13		7.83	7.86	0.03						
RW-5	2/6/13		7.39	7.40	0.01						
RW-5	2/11/13		7.09	7.12	0.03						
RW-5	2/18/13		7.21	7.23	0.02						
RW-5	2/21/13	111.35	Sheen	7.19	Sheen	104.16	3.300	0.513	0.583	1.760	0.0081 J
RW-5	2/27/13	111.35	7.22	7.23		104.12					
RW-5	3/4/13	111.35	7.20	7.21	0.01	104.15					
RW-5	3/25/13	111.35	7.07	7.08	0.01	104.28					
RW-5	4/4/13	111.35		8.00		103.35					
RW-5	4/8/13	111.35		7.11		104.24					
RW-5	4/15/13	111.35	6.79	6.80	0.01	104.56					
RW-5	4/22/13	111.35		6.37		104.98					
RW-5	5/8/13	111.35	6.86	6.90	0.04	104.48					
RW-5	5/23/13	111.35		6.90		104.45					
RW-5	7/3/13	111.35	6.83	6.84	0.01	104.52					
RW-5	5/5/15	111.35					1.610	0.827	0.694	4.430	<0.0097
RW-5	5/7/15	111.35		7.39		103.96					
RW-6	5/19/09			7.05							
RW-6	7/16/09		7.25	7.83	0.58						
RW-6	7/27/09		7.28	7.92	0.64						
RW-6	8/11/09		7.31	8.04	0.73						
RW-6	8/18/09		7.40	8.02	0.62						
RW-6	8/25/09		7.33	8.02	0.69						
RW-6	9/1/09			7.32							
RW-6	9/10/09		7.43	7.70	0.27						
RW-6	9/17/09			7.63							
RW-6	9/24/09		7.57	7.60	0.03						
RW-6	10/1/09			7.61							
RW-6	10/7/09		7.45	7.46	0.01						
RW-6	10/23/09		7.41	7.42	0.01						
RW-6	10/28/09			7.22							
RW-6	11/9/09		7.33	7.42	0.09						
RW-6	11/24/09			7.51							
RW-6	12/3/09		7.34	7.38	0.04						
RW-6	12/8/09		7.54	7.59	0.05						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-6	12/17/09		7.31	7.40	0.09						
RW-6	12/22/09		7.42	7.55	0.13						
RW-6	1/6/10			7.23							
RW-6	1/11/10		7.40	7.42	0.02						
RW-6	1/19/10		7.41	7.42	0.01						
RW-6	1/25/10			6.87							
RW-6	2/2/10		7.25	7.28	0.03						
RW-6	2/8/10			7.34							
RW-6	2/16/10		7.39	7.40	0.01						
RW-6	2/22/10		7.25	7.30	0.05						
RW-6	3/1/10		7.25	7.31	0.06						
RW-6	3/8/10		7.11	7.17	0.06						
RW-6	3/18/10		6.92	6.98	0.06						
RW-6	3/24/10		6.95	7.01	0.06						
RW-6	3/29/10		7.01	7.07	0.06						
RW-6	4/21/10			7.28							
RW-6	4/27/10		7.25	7.26	0.01						
RW-6	5/4/10			7.30							
RW-6	5/10/10		7.20	7.21	0.01						
RW-6	5/19/10		6.96	7.04	0.08						
RW-6	5/25/10		7.12	7.20	0.08						
RW-6	6/2/10		7.10	7.15	0.05						
RW-6	6/8/10		7.03	7.13	0.10						
RW-6	6/16/10		7.15	7.20	0.05						
RW-6	6/22/10		7.13	7.19	0.06						
RW-6	6/30/10		7.11	7.17	0.06						
RW-6	7/6/10		7.25	7.37	0.12						
RW-6	7/13/10		7.24	7.33	0.09						
RW-6	7/20/10		7.37	7.46	0.09						
RW-6	7/27/10		7.09	7.19	0.10						
RW-6	8/18/10		7.16	7.34	0.18						
RW-6	8/24/10		7.19	7.33	0.14						
RW-6	8/31/10		7.30	7.67	0.37						
RW-6	9/21/10			7.32							
RW-6	9/30/10		7.35	7.72	0.37						
RW-6	10/12/10		7.45	8.02	0.57						
RW-6	11/3/10		7.43	8.08	0.65						
RW-6	11/15/10		7.50	8.12	0.62						
RW-6	12/2/10		7.50	8.09	0.59						
RW-6	12/10/10		7.42	8.04	0.62						
RW-6	12/22/10		7.60	8.20	0.60						
RW-6	12/27/10		7.64	8.22	0.58						
RW-6	12/29/10		8.18	8.20	0.02						
RW-6	1/5/11		7.42	7.97	0.55						
RW-6	5-Jan-11^		7.73	7.76	0.03						
RW-6	1/13/11		7.72	7.82	0.10						
RW-6	13-Jan-11^		7.93	7.95	0.02						
RW-6	1/17/11		7.27	7.85	0.58						
RW-6	1/28/11		7.81	7.96	0.15						
RW-6	28-Jan-11^		8.30	8.35	0.05						
RW-6	2/7/11			7.78							
RW-6	2/22/11		6.93	7.27	0.34						
RW-6	3/2/11		7.11	7.31	0.20						
RW-6	3/7/11		7.15	7.30	0.15						
RW-6	3/14/11		7.09	7.17	0.08						
RW-6	3/21/11		6.69	6.71	0.02						
RW-6	3/28/11		7.02	7.03	0.01						
RW-6	4/5/11		7.15	7.19	0.04						
RW-6	4/12/11		7.09	7.10	0.01						
RW-6	4/14/11		7.15	7.16	0.01						
RW-6	4/19/11			7.05							
RW-6	4/26/11		6.55	6.56	0.01						
RW-6	5/5/11		7.00	7.05	0.05						
RW-6	5/11/11		7.20	7.23	0.03						
RW-6	5/17/11		7.19	7.23	0.04						
RW-6	5/23/11			6.82							
RW-6	6/2/11		6.91	6.98	0.07						
RW-6	6/27/11		7.23	7.26	0.03						
RW-6	7/6/11		7.38	7.41	0.03						
RW-6	7/18/11		Sheen	7.59	Sheen						
RW-6	7/26/11			7.24							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-6	8/2/11			7.53							
RW-6	8/9/11			7.14							
RW-6	8/15/11		7.31	7.35	0.04						
RW-6	8/22/11			7.23							
RW-6	8/29/11			7.31							
RW-6	9/7/11			7.45							
RW-6	9/13/11			7.50							
RW-6	9/20/11			7.44							
RW-6	9/27/11			7.16							
RW-6	10/3/11			7.27							
RW-6	10/11/11			7.61							
RW-6	10/18/11			7.41							
RW-6	10/25/11			7.32							
RW-6	11/4/11			7.30							
RW-6	11/10/11		7.02	7.03	0.01						
RW-6	11/4/11			7.22							
RW-6	11/30/11		7.25	7.26	0.01						
RW-6	12/6/11		7.14	7.15	0.01						
RW-6	12/12/11			7.29							
RW-6	12/19/11			7.21							
RW-6	12/29/11			7.34							
RW-6	1/9/12			7.32							
RW-6	1/17/12			7.42							
RW-6	1/23/12			7.22							
RW-6	1/31/12			7.19							
RW-6	2/6/12			7.22							
RW-6	2/13/12			7.35							
RW-6	2/21/12			7.33							
RW-6	2/28/12		Sheen	7.11	Sheen						
RW-6	3/9/12			7.28							
RW-6	3/23/12		Sheen	7.20	Sheen						
RW-6	3/27/12			7.17							
RW-6	4/5/12			7.32							
RW-6	4/10/12			7.39							
RW-6	4/16/12			6.96							
RW-6	4/24/12			7.20							
RW-6	5/4/12			7.18							
RW-6	5/10/12			7.12							
RW-6	5/16/12		Sheen	7.28	Sheen						
RW-6	5/25/12		Sheen	7.31	Sheen						
RW-6	5/29/12			7.37							
RW-6	6/8/12			7.34							
RW-6	6/14/12			7.44							
RW-6	6/19/12			7.48							
RW-6	6/29/12			7.63							
RW-6	7/3/12			7.72							
RW-6	7/11/12			7.77							
RW-6	7/16/12			7.80							
RW-6	8/1/12			7.62							
RW-6	8/10/12			7.65							
RW-6	9/7/12			7.85							
RW-6	9/13/12			7.91							
RW-6	10/3/12			8.18							
RW-6	11/27/12		7.12	8.09	0.97						
RW-6	12/3/12		7.16	8.13	0.97						
RW-6	12/6/12		7.22	8.20	0.98						
RW-6	6-Dec-12^		7.41	7.48	0.07						
RW-6	12/10/12		7.13	7.87	0.74						
RW-6	10-Dec-12^		7.85	7.90	0.05						
RW-6	12/14/12		7.18	7.96	0.78						
RW-6	14-Dec-12^		7.75	7.76	0.01						
RW-6	12/18/12		7.05	7.70	0.65						
RW-6	12/27/12		7.00	7.40	0.40						
RW-6	1/7/13			7.17							
RW-6	1/14/13			6.97							
RW-6	1/28/13		7.16	7.95	0.79						
RW-6	2/6/13		6.99	7.00	0.01						
RW-6	2/11/13			6.70							
RW-6	2/18/13		Sheen	6.87	Sheen						
RW-6	2/21/13	111.01		6.80		104.21	0.281	1.130	0.392	2.700	0.0051 J
RW-6	2/27/13	111.01	6.86	6.87	0.01	104.15					

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-6	3/4/13	111.01	6.86	6.87		104.14					
RW-6	3/25/13	111.01	6.71	6.72	0.01	104.30					
RW-6	4/4/13	111.01	6.82	6.83	0.01	104.19					
RW-6	4/8/13	111.01	6.67	6.68	0.01	104.34					
RW-6	4/15/13	111.01	Sheen	6.42	Sheen	104.59					
RW-6	4/22/13	111.01		9.02		101.99					
RW-6	5/8/13	111.01		6.47		104.54					
RW-6	5/23/13	111.01	Sheen	6.53	Sheen	104.48					
RW-6	7/3/13	111.01	Sheen	6.48	Sheen	104.53					
RW-6	5/5/15	111.01					**0.0142 J**	0.288	0.258	3.060	<0.0097
RW-6	5/7/15	111.01		7.04		103.97					
RW-7	12/3/12			7.16							
RW-7	12/6/12			7.21							
RW-7	12/10/12			7.10							
RW-7	12/14/12			7.19							
RW-7	12/18/12			7.01							
RW-7	12/27/12			6.90							
RW-7	1/7/13			7.11							
RW-7	1/14/13			6.95							
RW-7	1/28/13			7.93							
RW-7	2/6/13			6.90							
RW-7	2/11/13			6.62							
RW-7	2/18/13		Sheen	6.70	Sheen						
RW-7	2/21/13	110.51		6.71		103.80	**0.620**	0.465	0.211	0.754	0.0037 J
RW-7	2/27/13	110.51		6.73		103.78					
RW-7	3/4/13	110.51		6.73		103.78					
RW-7	3/25/13	110.51		6.60		103.91					
RW-7	4/4/13	110.51		6.69		103.82					
RW-7	4/8/13	110.51		6.64		103.87					
RW-7	4/15/13	110.51		6.30		104.21					
RW-7	4/22/13	110.51		5.94		104.57					
RW-7	5/8/13	110.51		6.41		104.10					
RW-7	5/23/13	110.51	Sheen	6.48	Sheen	104.03					
RW-7	7/3/13	110.51		6.37		104.14					
RW-7	5/5/15	110.51					**0.379**	0.188	0.146	0.731	0.0020 J
RW-7	5/7/15	110.51		7.80		102.71					
RW-8	12/3/12		7.00	8.25	1.25						
RW-8	12/6/12		7.01	8.31	1.30						
RW-8	6-Dec-12^		7.10	8.15	1.05						
RW-8	12/10/12		7.00	8.10	1.10						
RW-8	10-Dec-12^		7.76	7.79	0.03						
RW-8	12/14/12		6.99	8.09	1.10						
RW-8	14-Dec-12^		8.30	8.63	0.33						
RW-8	12/18/12		6.95	7.75	0.80						
RW-8	12/27/12		6.97	7.35	0.38						
RW-8	1/7/13		7.02	7.22	0.20						
RW-8	1/14/13		7.05	7.06	0.01						
RW-8	1/21/13		6.99	7.80	0.81						
RW-8	1/28/13		7.04	7.98	0.94						
RW-8	2/6/13			7.00							
RW-8	2/11/13			6.60							
RW-8	2/18/13			6.82							
RW-8	2/21/13	110.63	Sheen	6.80	Sheen	103.83	**4.140**	**8.700**	**1.300**	7.670	<0.0190
RW-8	2/27/13	110.63		6.86		103.77					
RW-8	3/4/13	110.63	Sheen	6.83	Sheen	103.80					
RW-8	3/25/13	110.63		6.70		103.93					
RW-8	4/4/13	110.63	6.80	6.81	0.01	103.82					
RW-8	4/8/13	110.63	6.75	6.76	0.01	103.87					
RW-8	4/15/13	110.63	Sheen	6.45	Sheen	104.18					
RW-8	4/22/13	110.63		6.05		104.58					
RW-8	5/8/13	110.63	6.51	6.52	0.01	104.12					
RW-8	5/23/13	110.63		6.59		104.04					
RW-8	7/3/13	110.63		6.48		104.15					
RW-8	5/5/15	110.63					**0.798**	0.624	0.287	3.840	<0.0097
RW-8	5/7/15	110.63		8.94		101.69					
RW-9	12/6/12			5.26							
RW-9	12/10/12			5.16							
RW-9	12/14/12			5.21							
RW-9	12/18/12			5.09							
RW-9	12/27/12			5.02							
RW-9	1/7/13			5.16							

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
RW-9	1/14/13		Sheen	5.06	Sheen						
RW-9	1/28/13			5.20							
RW-9	2/6/13			4.93							
RW-9	2/11/13			5.12							
RW-9	2/18/13			4.79							
RW-9	2/21/13	108.50	Sheen	4.74	Sheen	103.76	0.391	0.0130	0.0123	0.0050 J	0.0031
RW-9	2/27/13	108.50	Sheen	4.82	Sheen	103.68					
RW-9	3/4/13	108.50	Sheen	4.78	Sheen	103.72					
RW-9	3/25/13	108.50	Sheen	4.67	Sheen	103.83					
RW-9	4/4/13	108.50		4.75		103.75					
RW-9	4/8/13	108.50		4.69		103.81					
RW-9	4/15/13	108.50		4.38		104.12					
RW-9	4/22/13	108.50		4.05		104.45					
RW-9	5/8/13	108.50		4.49		104.01					
RW-9	5/23/13	108.50	Sheen	4.55	Sheen	103.95					
RW-9	7/3/13	108.50		4.45		104.05					
RW-9	5/5/15	108.50					0.0936	0.0032	0.0053	0.0176	0.0022
RW-9	5/7/15	108.50		5.86		102.64					
RW-10	12/3/12			7.62							
RW-10	12/6/122			7.65							
RW-10	12/10/12			7.61							
RW-10	12/14/12			7.62							
RW-10	12/18/12			7.51							
RW-10	12/27/12			7.43							
RW-10	1/7/13			7.62							
RW-10	1/14/13			7.42							
RW-10	1/28/13			7.80							
RW-10	2/6/13			7.39							
RW-10	2/11/13			7.07							
RW-10	2/18/13			7.26							
RW-10	2/21/13	111.01		7.23		103.78	0.00043 J	<0.00042	<0.00041	<0.0013	0.0028
RW-10	2/27/13	111.01		7.28		103.73					
RW-10	3/4/13	111.01		7.23		103.78					
RW-10	3/25/13	111.01		7.18		103.83					
RW-10	4/4/13	111.01		7.25		103.76					
RW-10	4/8/13	111.01		7.19		103.82					
RW-10	4/15/13	111.01		6.99		104.02					
RW-10	4/22/13	111.01		6.75		104.26					
RW-10	5/8/13	111.01		7.04		103.97					
RW-10	5/23/13	111.01		7.05		103.96					
RW-10	7/3/13	111.01		7.02		103.99					
RW-10	5/5/15	111.01					0.00064 J	<0.00039	0.0026	0.0037	0.0076
RW-10	5/7/15	111.01		7.72		103.29					
S-1	7/16/09		7.49	7.59	0.10						
S-1	7/27/09		7.46	7.54	0.08						
S-1	8/11/09		7.71	7.79	0.08						
S-1	8/18/09		7.61	7.72	0.11						
S-1	8/25/09		7.53	7.61	0.08						
S-1	9/1/09		7.01	7.05	0.04						
S-1	9/10/09		7.63	7.68	0.05						
S-1	9/17/09			7.86							
S-1	9/24/09		7.73	7.78	0.05						
S-1	10/1/09		7.87	7.89	0.02						
S-1	10/7/09		7.41	7.42	0.01						
S-1	10/23/09		6.79	6.81	0.02						
S-1	10/28/09		6.97	7.03	0.06						
S-1	11/9/09		7.33	7.38	0.05						
S-1	11/24/09		7.68	7.76	0.08						
S-1	12/3/09		7.40	7.46	0.06						
S-1	12/8/09		7.57	7.64	0.07						
S-1	12/17/09		7.31	7.39	0.08						
S-1	12/22/09		7.43	7.51	0.08						
S-1	12/28/09		6.52	6.59	0.07						
S-1	1/6/10		7.15	7.24	0.09						
S-1	1/11/10		7.38	7.45	0.07						
S-1	1/19/10		7.54	7.62	0.08						
S-1	1/25/10		7.01	7.04	0.03						
S-1	2/2/10		7.25	7.30	0.05						
S-1	2/8/10		7.37	7.42	0.05						
S-1	2/16/10		7.55	7.62	0.07						
S-1	2/22/10		7.43	7.47	0.04						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
S-1	3/1/10		7.35	7.40	0.05						
S-1	3/8/10		7.45	7.49	0.04						
S-1	3/18/10		6.79	6.82	0.03						
S-1	3/24/10		6.75	6.79	0.04						
S-1	3/29/10		7.01	7.05	0.04						
S-1	4/21/10		7.45	7.51	0.06						
S-1	4/27/10		7.27	7.29	0.02						
S-1	5/4/10		7.27	7.30	0.03						
S-1	5/10/10		7.13	7.16	0.03						
S-1	5/19/10		6.58	6.65	0.07						
S-1	5/25/10		6.86	6.95	0.09						
S-1	6/2/10		6.95	7.04	0.09						
S-1	6/8/10		6.96	7.01	0.05						
S-1	6/16/10		7.02	7.06	0.04						
S-1	6/22/10		7.05	7.09	0.04						
S-1	6/30/10		7.05	7.09	0.04						
S-1	7/6/10		7.27	7.30	0.03						
S-1	7/13/10		7.27	7.35	0.08						
S-1	7/20/10		7.47	7.50	0.03						
S-1	7/27/10		6.95	7.00	0.05						
S-1	8/18/10		7.16	7.29	0.13						
S-1	8/24/10		7.29	7.41	0.12						
S-1	8/31/10		7.57	7.72	0.15						
S-1	9/21/10		7.58	7.61	0.03						
S-1	9/30/10		7.32	7.35	0.03						
S-1	10/12/10		7.87	8.19	0.32						
S-1	11/3/10		7.90	8.36	0.46						
S-1	11/15/10		7.93	8.35	0.42						
S-1	12/2/10		7.93	8.58	0.65						
S-1	12/10/10		7.97	8.54	0.57						
S-1	12/22/10		7.90	8.48	0.58						
S-1	12/27/10		7.92	8.50	0.58						
S-1	1/5/11		7.58	8.00	0.42						
S-1	5-Jan-11^		9.56	9.63	0.07						
S-1	1/10/11		8.17	8.90	0.73						
S-1	1/13/11		8.22	8.96	0.74						
S-1	13-Jan-11^		9.00	9.02	0.02						
S-1	1/17/11		9.02	9.30	0.28						
S-1	1/28/11		8.44	8.75	0.31						
S-1	28-Jan-11^		10.32	10.40	0.08						
S-1	2/7/11		8.89	9.00	0.11						
S-1	2/22/11		7.85	7.91	0.06						
S-1	3/2/11		6.92	7.00	0.08						
S-1	3/7/11		6.99	7.04	0.05						
S-1	3/14/11		6.77	6.81	0.04						
S-1	3/21/11			6.57							
S-1	3/28/11		6.65	6.69	0.04						
S-1	4/5/11		6.94	6.97	0.03						
S-1	4/12/11		6.90	6.94	0.04						
S-1	4/14/11		6.97	7.02	0.05						
S-1	4/19/11		6.58	6.60	0.02						
S-1	4/26/11			6.28							
S-1	5/5/11		6.65	6.67	0.02						
S-1	5/11/11		6.92	6.94	0.02						
S-1	5/17/11		7.00	7.02	0.02						
S-1	5/23/11		6.99	7.00	0.01						
S-1	6/2/11		6.58	6.59	0.01						
S-1	6/27/11		7.08	7.10	0.02						
S-1	7/6/11		7.38	7.40	0.02						
S-1	7/18/11		7.71	7.74	0.03						
S-1	7/26/11		7.11	7.12	0.01						
S-1	8/2/11		7.03	7.05	0.02						
S-1	8/9/11		7.02	7.03	0.01						
S-1	8/15/11		7.15	7.17	0.02						
S-1	8/22/11		7.10	7.12	0.02						
S-1	8/29/11		7.13	7.14	0.01						
S-1	9/13/11		7.60	7.64	0.04						
S-1	9/20/11		7.51	7.53	0.02						
S-1	9/27/11			6.85							
S-1	10/3/11		6.99	7.00	0.01						
S-1	10/11/11		7.03	7.04	0.01						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
S-1	10/18/11		7.36	7.38	0.02						
S-1	10/25/11		7.32	7.33	0.01						
S-1	11/4/11		7.32	7.33	0.01						
S-1	11/10/11		6.99	7.00	0.01						
S-1	11/21/11		Sheen	7.25	Sheen						
S-1	11/30/11			7.14							
S-1	12/6/11		7.17	7.18	0.01						
S-1	12/12/11			7.20							
S-1	12/19/11		Heavy sheen	7.16	Heavy sheen						
S-1	12/29/11			7.24							
S-1	1/9/12			7.42							
S-1	1/17/12			7.55							
S-1	1/23/12		Sheen	7.16	Sheen						
S-1	1/31/12		Sheen	7.26	Sheen						
S-1	2/6/12		Sheen	7.35	Sheen						
S-1	2/13/12		Sheen	7.44	Sheen						
S-1	2/21/12		Sheen	7.43	Sheen						
S-1	2/28/12		Sheen	7.18	Sheen						
S-1	3/9/12		Sheen	7.13	Sheen						
S-1	3/23/12		Sheen	7.09	Sheen						
S-1	3/27/12		Sheen	6.99	Sheen						
S-1	4/5/12			7.25							
S-1	4/10/12		Sheen	7.38	Sheen						
S-1	4/16/12			7.12							
S-1	4/24/12		Sheen	7.19	Sheen						
S-1	5/4/12		Sheen	7.12	Sheen						
S-1	5/10/12		Sheen	7.07	Sheen						
S-1	5/16/12		Sheen	7.22	Sheen						
S-1	5/25/12		Sheen	7.28	Sheen						
S-1	5/29/12			7.42							
S-1	6/8/12		Sheen	7.18	Sheen						
S-1	6/14/12			7.41							
S-1	6/19/12			7.42							
S-1	6/29/12		Sheen	7.76	Sheen						
S-1	7/3/12		Sheen	7.78	Sheen						
S-1	7/11/12			8.03							
S-1	7/16/12		Sheen	8.13	Sheen						
S-1	8/1/12		Sheen	7.30	Sheen						
S-1	8/10/12		Sheen	7.69	Sheen						
S-1	9/7/12		Sheen	8.05	Sheen						
S-1	9/13/12		Sheen	8.05	Sheen						
S-1	10/3/12		Sheen	8.39	Sheen						
S-1	11/27/12		Sheen	8.35	Sheen						
S-1	12/3/12		Sheen	8.62	Sheen						
S-1	12/6/12		Sheen	8.65	Sheen						
S-1	12/10/13		Sheen	8.77	Sheen						
S-1	12/14/12		Sheen	8.75	Sheen						
S-1	12/18/12		Sheen	8.60	Sheen						
S-1	12/27/12		Sheen	8.21	Sheen						
S-1	1/7/13		Sheen	8.44	Sheen						
S-1	1/14/13		Sheen	8.34	Sheen						
S-1	1/21/13		Sheen	8.38	Sheen						
S-1	1/28/13		Sheen	8.45	Sheen						
S-1	2/6/13		Sheen	7.65	Sheen						
S-1	2/11/13		Sheen	7.02	Sheen						
S-1	2/18/13		Sheen	7.47	Sheen						
S-1	2/27/13		Sheen	7.58	Sheen						
S-1	3/4/13		Sheen	7.64	Sheen						
S-1	3/25/13		Sheen	7.31	Sheen						
S-1	4/4/13		Sheen	7.35	Sheen						
S-1	4/8/13		Sheen	7.40	Sheen						
S-1	4/15/13		Sheen	6.80	Sheen						
S-1	4/22/13		Sheen	5.83	Sheen						
S-1	5/8/13		Sheen	6.74	Sheen						
S-1	5/23/13		Sheen	6.95	Sheen						
S-1	7/3/13		Sheen	6.47	Sheen						
S-2	7/16/09		7.59	7.62	0.03						
S-2	7/27/09		7.56	7.64	0.08						
S-2	8/11/09		7.70	7.81	0.11						
S-2	8/18/09		7.68	7.80	0.12						
S-2	8/25/09		7.61	7.71	0.10						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
S-2	9/1/09		7.00	7.01	0.01						
S-2	9/10/09		7.62	7.67	0.05						
S-2	9/17/09			7.85							
S-2	9/24/09		7.73	7.79	0.06						
S-2	10/1/09		7.89	7.91	0.02						
S-2	10/7/09		7.50	7.55	0.05						
S-2	10/23/09		6.86	6.87	0.01						
S-2	10/28/09		6.99	7.02	0.03						
S-2	11/9/09		7.41	7.47	0.06						
S-2	11/24/09		7.78	7.85	0.07						
S-2	12/3/09		7.49	7.54	0.05						
S-2	12/8/09		7.63	7.70	0.07						
S-2	12/17/09		7.39	7.45	0.06						
S-2	12/22/09		7.54	7.61	0.07						
S-2	12/28/09		6.61	6.65	0.04						
S-2	1/6/10		7.23	7.30	0.07						
S-2	1/11/10		7.47	7.52	0.05						
S-2	1/19/10		7.62	7.68	0.06						
S-2	1/25/10		7.08	7.10	0.02						
S-2	2/2/10		7.34	7.39	0.05						
S-2	2/8/10		7.45	7.52	0.07						
S-2	2/16/10		7.65	7.73	0.08						
S-2	2/22/10		7.52	7.55	0.03						
S-2	3/1/10		7.43	7.49	0.06						
S-2	3/8/10		7.51	7.57	0.06						
S-2	3/18/10		6.85	6.89	0.04						
S-2	3/24/10		6.85	6.88	0.03						
S-2	3/29/10		7.08	7.12	0.04						
S-2	4/21/10		7.37	7.41	0.04						
S-2	4/27/10		7.27	7.31	0.04						
S-2	5/4/10		7.36	7.39	0.03						
S-2	5/10/10		7.21	7.24	0.03						
S-2	5/19/10		6.67	6.71	0.04						
S-2	5/25/10		6.93	7.02	0.09						
S-2	6/2/10		7.00	7.10	0.10						
S-2	6/8/10		6.99	7.04	0.05						
S-2	6/16/10		7.09	7.12	0.03						
S-2	6/22/10		7.12	7.16	0.04						
S-2	6/30/10		7.13	7.17	0.04						
S-2	7/6/10		7.36	7.39	0.03						
S-2	7/13/10		7.35	7.43	0.08						
S-2	7/20/10		7.55	7.63	0.08						
S-2	7/27/10		7.03	7.09	0.06						
S-2	8/18/10		7.25	7.36	0.11						
S-2	8/24/10		7.37	7.49	0.12						
S-2	8/30/10		7.60	7.75	0.15						
S-2	9/21/10		7.67	7.86	0.19						
S-2	9/30/10		7.71	7.74	0.03						
S-2	10/12/10		7.95	8.26	0.31						
S-2	11/3/10		7.96	8.44	0.48						
S-2	11/15/10		7.93	8.42	0.49						
S-2	12/2/10		7.96	8.65	0.69						
S-2	12/10/10		8.02	8.63	0.61						
S-2	12/22/10		8.01	8.49	0.48						
S-2	12/27/10		8.03	8.60	0.57						
S-2	1/5/11		7.67	8.05	0.38						
S-2	5-Jan-11^		8.90	9.09	0.19						
S-2	1/10/11		8.25	8.97	0.72						
S-2	1/13/11		8.22	8.98	0.76						
S-2	13-Jan-11^			9.02							
S-2	1/17/11		9.09	9.39	0.30						
S-2	1/28/11		8.53	8.85	0.32						
S-2	28-Jan-11^		9.83	9.99	0.16						
S-2	2/7/11		8.94	9.05	0.11						
S-2	2/22/11		6.93	6.98	0.05						
S-2	3/2/11		7.00	7.06	0.06						
S-2	3/7/11		7.05	7.09	0.04						
S-2	3/14/11		6.85	6.89	0.04						
S-2	3/21/11			6.65							
S-2	3/28/11		6.74	6.77	0.03						
S-2	4/5/11		7.02	7.06	0.04						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
S-2	4/12/11		6.98	7.02	0.04						
S-2	4/14/11		7.06	7.11	0.05						
S-2	4/19/11		6.60	6.61	0.01						
S-2	4/26/11			6.35							
S-2	5/5/11		6.73	6.76	0.03						
S-2	5/11/11		7.02	7.06	0.04						
S-2	5/17/11		7.03	7.05	0.02						
S-2	5/23/11		7.09	7.10	0.01						
S-2	6/2/11		6.56	6.58	0.02						
S-2	6/27/11		7.16	7.18	0.02						
S-2	7/6/11		7.45	7.49	0.04						
S-2	7/18/11		7.80	7.83	0.03						
S-2	7/26/11		7.18	7.19	0.01						
S-2	8/2/11		7.12	7.14	0.02						
S-2	8/9/11		7.10	7.12	0.02						
S-2	8/15/11		7.25	7.27	0.02						
S-2	8/22/11		7.18	7.20	0.02						
S-2	8/29/11		7.21	7.22	0.01						
S-2	9/13/11		7.68	7.70	0.02						
S-2	9/20/11		7.59	7.61	0.02						
S-2	9/27/11		6.91	6.92	0.01						
S-2	10/3/11		7.04	7.05	0.01						
S-2	10/11/11		7.07	7.08	0.01						
S-2	10/18/11		7.45	7.47	0.02						
S-2	10/25/11		7.39	7.41	0.02						
S-2	11/4/11		7.41	7.42	0.01						
S-2	11/10/11		7.02	7.03	0.01						
S-2	11/21/11		Sheen	7.33	Sheen						
S-2	11/30/11		7.22	7.26	0.04						
S-2	12/6/11		7.14	7.15	0.01						
S-2	12/12/11		7.28	7.29	0.01						
S-2	12/29/11		7.23	7.24	0.01						
S-2	1/9/12			9.50							
S-2	1/17/12			8.96							
S-2	1/31/12		Sheen	7.34	Sheen						
S-2	2/6/12		7.41	7.42	0.01						
S-2	2/13/12		Sheen	7.53	Sheen						
S-2	2/21/12		Sheen	7.51	Sheen						
S-2	2/28/12		Sheen	7.28	Sheen						
S-2	3/9/12		Sheen	7.20	Sheen						
S-2	3/23/12		Sheen	7.13	Sheen						
S-2	3/27/12			7.09							
S-2	4/5/12			7.33							
S-2	4/10/12		7.46	7.47	0.01						
S-2	4/16/12		Sheen	7.21	Sheen						
S-2	4/24/12		Sheen	7.26	Sheen						
S-2	5/4/12		Sheen	7.20	Sheen						
S-2	5/10/12		Sheen	7.15	Sheen						
S-2	5/16/12		Sheen	7.30	Sheen						
S-2	5/25/12		Sheen	7.34	Sheen						
S-2	5/29/12		7.50	7.51	0.01						
S-2	6/8/12		Sheen	7.26	Sheen						
S-2	6/14/12		7.49	7.50	0.01						
S-2	6/19/12		7.51	7.52	0.01						
S-2	6/29/12		Sheen	7.83	Sheen						
S-2	7/3/12		Sheen	7.86	Sheen						
S-2	7/11/12		Sheen	8.11	Sheen						
S-2	7/16/12		Sheen	8.22	Sheen						
S-2	8/1/12		Sheen	7.38	Sheen						
S-2	8/10/12		Sheen	7.78	Sheen						
S-2	9/7/12		Sheen	8.14	Sheen						
S-2	9/13/12		Sheen	8.13	Sheen						
S-2	10/3/12		Sheen	8.47	Sheen						
S-2	11/27/12		Sheen	8.61	Sheen						
S-2	12/3/12		Sheen	8.68	Sheen						
S-2	12/6/12		Sheen	8.73	Sheen						
S-2	12/10/12		Sheen	8.86	Sheen						
S-2	12/14/12		Sheen	8.82	Sheen						
S-2	12/18/12		Sheen	8.69	Sheen						
S-2	12/27/12		Sheen	8.30	Sheen						
S-2	1/7/13		Sheen	8.51	Sheen						
S-2	1/14/13		Sheen	8.41	Sheen						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
S-2	1/21/13		Sheen	8.47	Sheen						
S-2	1/28/13		Sheen	8.59	Sheen						
S-2	2/6/13		Sheen	8.75	Sheen						
S-2	2/11/13		Sheen	7.11	Sheen						
S-2	2/18/13		Sheen	7.55	Sheen						
S-2	2/27/13		Sheen	7.65	Sheen						
S-2	3/4/13		Sheen	7.73	Sheen						
S-2	3/25/13		Sheen	7.41	Sheen						
S-2	4/4/13		Sheen	7.46	Sheen						
S-2	4/8/13		Sheen	7.49	Sheen						
S-2	4/15/13		Sheen	6.83	Sheen						
S-2	4/22/13		Sheen	5.92	Sheen						
S-2	5/8/13		Sheen	6.82	Sheen						
S-2	5/23/13		Sheen	7.03	Sheen						
S-2	7/3/13		Sheen	6.55	Sheen						
S-3	7/27/09		7.56	7.59	0.03						
S-3	8/11/09		7.69	7.81	0.12						
S-3	8/18/09		7.69	7.80	0.11						
S-3	8/25/09		7.61	7.71	0.10						
S-3	9/1/09		7.03	7.08	0.05						
S-3	9/10/09		7.66	7.68	0.02						
S-3	9/17/09			7.88							
S-3	9/24/09		7.74	7.80	0.06						
S-3	10/1/09		7.88	7.89	0.01						
S-3	10/7/09		7.50	7.51	0.01						
S-3	10/23/09		6.26	6.27	0.01						
S-3	10/28/09		6.97	7.02	0.05						
S-3	11/9/09		7.40	7.45	0.05						
S-3	11/24/09		7.76	7.86	0.10						
S-3	12/3/09		7.49	7.55	0.06						
S-3	12/8/09		7.64	7.70	0.06						
S-3	12/17/09		7.39	7.47	0.08						
S-3	12/22/09		7.53	7.59	0.06						
S-3	12/28/09		6.61	6.67	0.06						
S-3	1/6/10		7.23	7.31	0.08						
S-3	1/11/10		7.47	7.54	0.07						
S-3	1/19/10		7.62	7.70	0.08						
S-3	1/25/10		7.08	7.11	0.03						
S-3	2/2/10		7.34	7.40	0.06						
S-3	2/8/10		7.45	7.52	0.07						
S-3	2/16/10		7.64	7.70	0.06						
S-3	2/22/10		7.52	7.54	0.02						
S-3	3/1/10		7.42	7.47	0.05						
S-3	3/8/10		7.51	7.57	0.06						
S-3	3/18/10		6.88	6.91	0.03						
S-3	3/24/10		6.83	6.87	0.04						
S-3	3/29/10		7.11	7.15	0.04						
S-3	4/21/10		7.37	7.42	0.05						
S-3	4/27/10		7.29	7.32	0.03						
S-3	5/4/10		7.37	7.40	0.03						
S-3	5/10/10		7.24	7.27	0.03						
S-3	5/19/10		6.67	6.72	0.05						
S-3	5/25/10		6.94	7.03	0.09						
S-3	6/2/10		7.01	7.11	0.10						
S-3	6/8/10		7.00	7.05	0.05						
S-3	6/16/10		7.09	7.13	0.04						
S-3	6/22/10		7.13	7.14	0.01						
S-3	6/30/10		7.12	7.16	0.04						
S-3	7/6/10		7.35	7.38	0.03						
S-3	7/13/10		7.34	7.42	0.08						
S-3	7/20/10		7.55	7.63	0.08						
S-3	7/27/10		7.03	7.09	0.06						
S-3	8/18/10		7.28	7.40	0.12						
S-3	8/24/10		7.38	7.50	0.12						
S-3	8/31/10		7.59	7.74	0.15						
S-3	9/21/10		7.68	7.85	0.17						
S-3	9/30/10		7.72	7.75	0.03						
S-3	10/12/10		7.95	8.24	0.29						
S-3	11/3/10		7.97	8.44	0.47						
S-3	11/15/10		7.96	8.42	0.46						
S-3	12/2/10		7.96	8.66	0.70						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
S-3	12/10/10		8.03	8.64	0.61						
S-3	12/22/10		8.01	8.49	0.48						
S-3	12/27/10		8.03	8.60	0.57						
S-3	1/5/11		7.67	8.06	0.39						
S-3	5-Jan-11^		8.87	9.03	0.16						
S-3	1/10/11		8.25	8.98	0.73						
S-3	1/13/11		8.22	8.96	0.74						
S-3	13-Jan-11^		9.82	10.08	0.26						
S-3	1/17/11		9.10	9.39	0.29						
S-3	1/28/11		8.55	8.84	0.29						
S-3	28-Jan-11^		10.07	10.21	0.14						
S-3	2/7/11		8.96	9.07	0.11						
S-3	2/22/11		6.93	6.99	0.06						
S-3	3/2/11		7.02	7.06	0.04						
S-3	3/7/11		7.04	7.08	0.04						
S-3	3/14/11		6.85	6.90	0.05						
S-3	3/21/11		6.65	6.66	0.01						
S-3	3/28/11		6.74	6.78	0.04						
S-3	4/6/11		7.02	7.07	0.05						
S-3	4/12/11		6.98	7.02	0.04						
S-3	4/14/11		7.07	7.11	0.04						
S-3	4/19/11		6.59	6.60	0.01						
S-3	4/26/11			6.36							
S-3	5/5/11		6.74	6.78	0.04						
S-3	5/11/11		7.00	7.05	0.05						
S-3	5/17/11		7.03	7.06	0.03						
S-3	5/23/11		7.08	7.09	0.01						
S-3	6/2/11		6.56	6.58	0.02						
S-3	6/27/11		7.16	7.18	0.02						
S-3	7/6/11		7.46	7.50	0.04						
S-3	7/18/11		7.80	7.83	0.03						
S-3	7/26/11		7.18	7.19	0.01						
S-3	8/2/11		7.12	7.14	0.02						
S-3	8/9/11		7.10	7.12	0.02						
S-3	8/15/11		7.25	7.27	0.02						
S-3	8/22/11		7.18	7.20	0.02						
S-3	8/29/11		7.21	7.22	0.01						
S-3	9/13/11		7.68	7.70	0.02						
S-3	9/20/11		7.59	7.61	0.02						
S-3	9/27/11		6.91	6.92	0.01						
S-3	10/3/11		7.04	7.05	0.01						
S-3	10/11/11		7.07	7.08	0.01						
S-3	10/18/11		7.45	7.47	0.02						
S-3	10/25/11		7.39	7.41	0.02						
S-3	11/4/11		7.41	7.42	0.01						
S-3	11/10/11		7.02	7.03	0.01						
S-3	11/4/11		Sheen	7.34	Sheen						
S-3	11/30/11		7.25	7.26	0.01						
S-3	12/6/11		7.14	7.15	0.01						
S-3	12/12/11		7.28	7.29	0.01						
S-3	12/19/11		7.23	7.24	0.01						
S-3	1/9/12			9.50							
S-3	1/17/12			8.96							
S-3	1/23/12			7.25							
S-3	1/31/12		Sheen	7.34	Sheen						
S-3	2/6/12		7.41	7.42	0.01						
S-3	2/13/12		Sheen	7.53	Sheen						
S-3	2/21/12		Sheen	7.51	Sheen						
S-3	2/28/12		Sheen	7.28	Sheen						
S-3	3/9/12		Sheen	7.20	Sheen						
S-3	3/23/12		Sheen	7.13	Sheen						
S-3	3/27/12			7.10							
S-3	4/5/12			7.33							
S-3	4/10/12		7.46	7.47	0.01						
S-3	4/16/12		Sheen	7.21	Sheen						
S-3	4/16/12		Sheen	7.26	Sheen						
S-3	5/4/12		Sheen	7.20	Sheen						
S-3	5/10/12		Sheen	7.15	Sheen						
S-3	5/16/12		Sheen	7.30	Sheen						
S-3	5/25/12		Sheen	7.34	Sheen						
S-3	5/29/12		7.50	7.51	0.01						

Table 2

Groundwater Elevations and Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes							Indicator Contaminants and tier 1 Groundwater Remediation Objectives				
							Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater							0.005	1	0.7	10	0.07
Sample ID	Date Sampled	Reference Elevation (feet)	Static Depth to Free Product (feet below TOC)	Static Depth to Water (feet below TOC)	Free Product Thickness (feet)	Groundwater Elevation (feet)					
S-3	6/8/12		Sheen	7.26	Sheen						
S-3	6/14/12		7.49	7.50	0.01						
S-3	6/19/12		7.51	7.52	0.01						
S-3	6/29/12		Sheen	7.83	Sheen						
S-3	7/3/12		Sheen	7.86	Sheen						
S-3	7/11/12		Sheen	8.11	Sheen						
S-3	7/16/12		Sheen	8.22	Sheen						
S-3	8/1/12		Sheen	7.38	Sheen						
S-3	8/10/12		Sheen	7.78	Sheen						
S-3	9/7/12		Sheen	8.14	Sheen						
S-3	9/13/12		Sheen	8.13	Sheen						
S-3	10/3/12		Sheen	8.47	Sheen						
S-3	11/27/12		Sheen	8.62	Sheen						
S-3	12/3/12		Sheen	8.68	Sheen						
S-3	12/6/12		Sheen	8.73	Sheen						
S-3	12/10/12		Sheen	8.67	Sheen						
S-3	12/14/12		Sheen	8.82	Sheen						
S-3	12/18/12		Sheen	8.69	Sheen						
S-3	12/28/12		Sheen	8.31	Sheen						
S-3	1/7/13		Sheen	8.51	Sheen						
S-3	1/14/13		Sheen	8.41	Sheen						
S-3	1/21/13		Sheen	8.48	Sheen						
S-3	1/28/13		Sheen	8.58	Sheen						
S-3	2/6/13		Sheen	8.75	Sheen						
S-3	2/11/13		Sheen	7.11	Sheen						
S-3	2/18/13		Sheen	7.56	Sheen						
S-3	2/27/13		Sheen	7.65	Sheen						
S-3	3/4/13		Sheen	7.73	Sheen						
S-3	3/25/13		Sheen	7.41	Sheen						
S-3	4/4/13		Sheen	7.46	Sheen						
S-3	4/8/13		Sheen	7.49	Sheen						
S-3	4/15/13		Sheen	6.83	Sheen						
S-3	4/22/13		Sheen	5.92	Sheen						
S-3	5/8/13		Sheen	6.82	Sheen						
S-3	5/23/13		Sheen	7.03	Sheen						
S-3	7/3/13		Sheen	6.55	Sheen						
SUMP	6/22/10			4.38							
SUMP	6/30/10			4.36							
SUMP	7/6/10			4.37							
SUMP	7/13/10			4.36							
SUMP	7/20/10			4.29							
SUMP	7/27/10			4.20							
SUMP	8/18/10			4.42							
SUMP	8/24/10			4.40							
SUMP	8/31/10			4.38							
SUMP	9/21/10			4.35							
SUMP	9/30/10			4.40							
SUMP	10/12/10			4.45							
SUMP	11/3/10			4.54							
SUMP	11/15/10			4.66							
SUMP	12/2/10			4.70							
SUMP	12/10/10			4.68							
SUMP	1/10/11			7.88							
SUMP	3/2/11			4.42							
SUMP	3/7/11			4.38							

Notes:

1) **Bold** = detected concentration exceeds the Tier 1 groundwater remediation objectives listed in 35 Illinois Administrative Code Part 742

2) J = estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

3) Groundwater elevations are relative to a site specific benchmark of 100 feet.

4) ^ = Gauging performed after high vacuum extraction event

Table 3

Remediation System Groundwater Analytical Results - BTEXM

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Tier 1 Exposure Routes		Indicator Contaminants and Tier 1 Groundwater Remediation Objectives				
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
GCGIER - Class I Groundwater		**0.005**	**1**	0.7	10	0.07
Sample ID	**Sample Date**					
Influent	11/1/13	**0.761**	**1.040**	0.271	2.880	<0.0037
Influent	11/7/13	**0.298**	0.649	0.0987	1.390	<0.0037
Influent	11/14/13	**0.202**	0.497	0.0693	1.240	<0.0037
Influent	11/20/13	**0.200**	0.374	0.0392	0.761	0.0015
Influent	12/9/13	**0.0506**	0.167	0.0292	0.594	0.00077 J
Influent	1/22/14	**0.0567**	0.274	0.0523	0.732	<0.0020
Influent	11/25/14	**0.337**	0.678	0.129	1.720	<0.0019
Influent	12/10/14	**0.0596**	0.154	0.0313	0.744	<0.0012
Influent	12/23/14	**0.0235**	0.0783	0.0173	0.664	<0.00048
Influent	1/21/15	**0.0205**	0.0354	0.0030	0.601	<0.0025
Influent	2/17/15	**0.0652**	0.0616	0.0474	0.608	<0.0024
Influent	3/9/15	**0.181**	1.010	0.305	3.980	0.0070
Influent	5/7/15	**0.0404**	0.0523	0.0170	0.379	<0.00097
Influent	6/1/15	**0.0345**	0.0555	0.0228	0.388	<0.00035
Effluent	11/1/13	**0.0056**	0.0092	0.0035	0.0377	<0.00037
Effluent	11/7/13	0.0039	0.00090 J	0.00054 J	0.0024 J	<0.00037
Effluent	11/14/13	0.0024	0.00083 J	<0.00034	0.0021 J	<0.00037
Effluent	11/20/13	0.0037	0.00084 J	0.00047 J	0.0013 J	<0.00037
Effluent	12/9/13	0.0010	<0.00034	0.00046 J	<0.0010	<0.00037
Effluent	1/22/14	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010
Effluent	11/25/14	**0.0118**	0.0204	0.0056	0.0662	<0.00048
Effluent	12/10/14	0.0028	0.0062	0.0017	0.0371	<0.00048
Effluent	12/23/14	0.00076 J	<0.00039	0.00040 J	<0.0012	<0.00048
Effluent	1/21/15	<0.0010	<0.0010	<0.0010	<0.0030	<0.0010
Effluent	2/17/15	0.00044 J	<0.00039	<0.00039	<0.0012	<0.00048
Effluent	3/9/15	<0.00040	0.00041 J	0.0051	0.0138	0.0016
Effluent	5/7/15	0.00072 J	<0.00039	<0.00039	<0.0012	<0.00048
Effluent	6/1/15	<0.00050	<0.00050	<0.00050	<0.0015	<0.00017

Notes:
1) **Bold** = detected concentration exceeds the Tier 1 groundwater remediation objectives (GROs) listed in 35 Illinois Administrative Code (IAC) Part 742
2) J = estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
3) The Tier 1 GROs for Class I groundwater for the compounds listed above are identical to the Class I Groundwater Quality Standards listed in 35 IAC Section 620.410.

Table 4

Air Analytical Results

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Sample ID	Date Sampled	Effluent PID (ppm)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)	THC Gas (ppmv)	Methane (ppmv)
VAC Effluent	11/1/13	58.0	5.6	2.1	0.49	3.14	0.15	26.2	195
VAC Effluent	8/11/14	163.0	2.39	3.6	1.32	7.61	<0.018	181	

Notes:

Table 5

Mass Removal Calculations

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Period Ending	Operation Time (hours)	Average Manifold Vacuum (in. Hg)	SVE Effluent Air Flow (scfm)	SVE Effluent PID (ppm)	Total Water Discharged (gallons)	Influent Total BTEX and MTBE (mg/L)	Mass of BTEX and MTBE Removed				Cumulative BTEX and MTBE Removed (pounds)	Cumulative VOCs Removed (pounds)
							Liquid (pounds)	Dissolved (pounds)	Vapor (pounds)	Total (pounds)		
11/14/13	Start Up				0.00	2.012						
11/18/13	9.10	12.00	141	147.1	3,985.81			0.00	0.53	0.53	0.53	1.16
11/20/13	21.40	12.50	141	104.2	31,574.20	1.376		0.00	0.61	0.61	1.14	2.50
11/26/13	167.50	9.50	155	146.8	61,002.60			0.00	7.61	7.62	8.75	19.20
12/4/13	266.20	12.50	143	76.7	99,720.10			0.00	4.62	4.62	13.37	29.32
12/9/13	387.10	10.00	147	128.0	136,503.00	0.842		0.00	5.03	5.03	18.40	40.35
12/10/13	389.10	9.50			137,753.00			0.00	0.13	0.13	18.53	40.64
12/19/13	400.00	11.50	141	198.4	142,175.00			0.00	0.72	0.72	19.25	42.22
12/26/13	542.70	11.00	161	315.2	196,732.00			0.00	15.53	15.53	34.78	76.28
1/22/14	866.55	19.00	266	269.0	350,541.00	1.117		0.00	56.72	56.72	91.50	200.68
8/6/14	868.10	12.50	70	198.0	351,012.00			0.00	0.17	0.17	91.67	202.01
8/8/14	914.00	13.50	45	97.3	363,222.00			0.00	1.10	1.10	92.77	210.56
8/12/14	937.90	14.50	38	113.0	371,280.00			0.00	0.22	0.22	92.99	212.85
9/15/14	1,239.00	12.50	48	93.5	376,255.00			0.00	2.76	2.76	95.75	242.21
9/19/14	1,310.20	21.50	71	153.8	376,471.00			0.00	1.08	1.08	96.83	253.66
9/22/14	1,381.80	15.50	57	384.1	386,078.00			0.00	2.54	2.54	99.37	280.60
11/13/14	2,322.60	6.00	66	18.7	420,500.00	1.117		0.00	24.02	24.02	123.39	535.85
11/25/14	2,470.70	15.00	59	1,023.0	423,070.00	2.866		0.00	9.91	9.91	133.30	641.18
11/26/14	2,489.90	14.00	77	484.0	427,265.00			0.00	2.02	2.02	135.32	662.68
12/2/14	2,635.80	5.00	32	19.9	438,261.00			0.00	4.12	4.12	139.44	706.45
12/10/14	2,827.10	14.50	52	651.0	445,108.00	0.990		0.00	5.51	5.51	144.95	764.96
12/16/14	2,953.40	15.00	57	322.8	478,956.00			0.00	6.84	6.84	151.79	837.63
12/23/14	3,115.10	13.50	55	156.9	511,742.00	0.784		0.00	4.44	4.44	156.23	884.85
12/29/14	3,258.20	16.00	55	208.8	524,811.00			0.00	2.97	2.97	159.20	916.38
1/5/15	3,421.10	12.50	71	370.0	557,175.00			0.00	6.12	6.12	165.32	981.45
1/12/15	3,587.70	17.50	48	105.0	604,558.00			0.00	4.84	4.84	170.16	1,032.88
1/21/15	3,750.80	17.50	54	384.3	640,854.00	0.662		0.00	4.19	4.19	174.35	1,077.36
2/6/15	3,754.40	15.00	60	66.1	642,187.00			0.00	0.10	0.10	174.45	1,078.37
2/10/15	3,814.60	17.50	46	74.4	661,202.00			0.00	0.46	0.46	174.91	1,083.27
2/16/15	3,954.80	18.00	44	63.4	705,426.00	0.785		0.00	0.89	0.89	175.80	1,092.77
3/9/15	4,134.00	19.50	45	155.0	763,283.00	5.483		0.00	1.79	1.79	177.59	1,111.75
5/5/15	4,199.40	15.50	48	68.2	778,056.00			0.00	0.69	0.69	178.28	1,119.12
5/8/15	4,267.60	19.50	43	226.0	798,345.00	0.490		0.00	0.94	0.94	179.22	1,129.08
5/15/15	4,429.30	15.00	44	226.0	871,066.00			0.00	3.26	3.26	182.48	1,163.71
5/19/15	4,460.50	15.00	45	31.7	886,505.00			0.00	0.36	0.36	182.84	1,167.59
5/22/15	4,505.40	15.75	54	189.6	914,608.00			0.00	0.50	0.50	183.35	1,172.91
5/29/15	4,527.60	18.00	49	186.1	927,191.00			0.00	0.44	0.44	183.78	1,177.57
6/1/15	4,601.30	14.50	51	136.0	962,888.00	0.501		0.00	1.22	1.22	185.00	1,190.52

Notes:
1) in. Hg = inches of mercury
2) scfm = standard cubic feet per minute
3) ppm = parts per million
4) µg/L = micrograms per Liter
5) Influent BTEX and MTBE data taken from the analytical laboratory results from the influent groundwater samples collected on a monthly basis

Equations:
1) Dissolved BTEX and MTBE Removed (lbs) = Total Water Discharged (gal) * sum of the Influent Total BTEX and MTBE (µg/L) * (3.78 L/1 gal) * (1 lb/4.53E8 µg)
2) Vapor BTEX and MTBE Removed (lbs) = sum of the vapor removed for each individual compound (lbs)
3) Vapor Individual Compound Removed (lbs) = compound air bag concentration (ppmv)/10^6 (ppmv) * molecular weight of compound (lb/lb-mole) * 1/379.5 (scf/lb-mole) * air flow (cfm) * operation time (hrs) * (60 min/1hr) * SVE Effluent PID (ppm) / SVE Effluent Air Bag PID (ppm)
4) VOCs removed (lbs) = TPH air bag concentration (ppmv)/10^6 (ppmv) * molecular weight of compound (lb/lb-mole) * 1/379.5 (scf/lb-mole) * air flow (cfm) * operation time (hrs) * (60 min/1hr) * SVE Effluent PID (ppm) / SVE Effluent Air Ba

Conversions:

1 gallons =	3.785412	liters
1 pound =	453,600,000	µg
1 pound =	453,600	mg
1 $feet^3$ =	0.028316847	$meter^3$
1 gallon gas =	6.1	pounds gas
1 lb-mole =	379.5	scf
1 hr =	60	min

Molecular Weights:

Benzene =	78.11	lb/lb-mole
Toluene =	92.14	lb/lb-mole
Ethylbenzene =	106.16	lb/lb-mole
Total Xylenes =	106.16	lb/lb-mole
MTBE =	88.15	lb/lb-mole
TPH =	86.18	lb/lb-mole

Table 6

Remediation System Groundwater Analytical Results - Fe and Total Hardness

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084

Sample ID	Date Sampled	Iron (mg/L)	Total Hardness (mg/L)
Influent	5/7/15	4.260	488.000

Notes:

ATTACHMENT A

SOIL ANALYTICAL LABORATROY REPORTS AND CERTIFICATIONS

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

L1068966

(Please Print Clearly)	
Company Name:	TriCore Environmental LLC
Branch/Location:	West Chicago, IL
Project Contact:	Kim Miller
Phone:	630-520-9973
Project Number:	
Project Name:	Shivam Energy
Project State:	Wauconda, IL
Sampled By (Print):	Kim Miller
Sampled By (Sign):	Kim Miller
PO #:	
Regulatory Program:	IL UST

Quote #:	
Mail To Contact:	Shawn Rodeck
Mail To Company:	TriCore Environmental
Mail To Address:	1800 W. Hawthorne Ln Ste C West Chicago IL 60185
Invoice To Contact:	Shawn Rodeck
Invoice To Company:	SAA
Invoice To Address:	SAA
Invoice To Phone:	630-520-9973

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: BTEX/MTBE 8021	Analyses Requested: Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	RW-9 (5-7.5')	10/15/12	950	S	N	A	X	X		2-40ml F, 1-4oz ag A	
002	RW-7 (5-7.5')	10/15/12	1028	S							
003	RW-8 (5-7.0')	10/15/12	1054	S							
004	RW-10 (5-7.5')	10/15/12	1118	S							

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	10/15/12 13:00		10/15/12
	10/15/12 1700	CS Logistics	10/15/12
CS Logistics	10/16/12 0848	E Hoffing PaceLab	10/16/12 0848

PACE Project No.
13:00
L1068966

Receipt Temp = 2.5 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.9 - 06/14/06

C019a(27Jun2006)

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: TriCore Env. Project # 40689666

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None Other

Thermometer Used SR43

Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun.

Cooler Temperature 2.5°C

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Optional: Proj Due Date: Proj Name:

Person examining contents:
Date: 10/16/12
Initials: CMH

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	Initial when completed / Lot # of added preservative
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: LW Date: 10/16/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

40683341/40688666

This page can be completed online.

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17) Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42) Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Former Clark Retail Station #646

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. MLR (initial)
2. Chain-of-custody procedures were followed in the field. MLR (initial)
3. Sample integrity was maintained by proper preservation. MLR (initial)
4. All samples were properly labeled. MLR (initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms UW (initial)
2. Sample integrity was maintained by proper preservation. UW (initial)
3. All samples were properly labeled. UW (initial)

406B341 / 406B566

This page can be completed online.

4. Quality assurance/quality control procedures were established and carried out. CW (initial)

5. Sample holding times were not exceeded. CW (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. CW (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). CW (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Marcos I. Czako

Title: Geologist III

Company: TriCore Environmental, LLC

Address: 2368 Corporate Lane, Suite 116

City, State, ZIP: Naperville, IL 60563

Phone: 630-520-9973

Signature: [signature]

Date: 06/02/15

Laboratory Representative

Name: Laurie Woelfel

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1241 Bellevue Street, Suite 9

City, State, ZIP: Green Bay, WI 54302

Phone: (920) 469-2436

Signature: [signature]

Date: 6/2/15

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www.pacelabs.com

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 23, 2012

Kim Miller
TriCore Environmental, LLC.
1800 West Hawthorne Lane
Suite P
West Chicago, IL 60185

RE: Project: SHIVAM ENERGY
Pace Project No.: 4068966

Dear Kim Miller:
Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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(920)469-2436

CERTIFICATIONS

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4068966001	RW-9 (5-7.5)	Solid	10/15/12 09:50	10/16/12 08:48
4068966002	RW-7 (5-7.5)	Solid	10/15/12 10:28	10/16/12 08:48
4068966003	RW-8 (5-7.0)	Solid	10/15/12 10:54	10/16/12 08:48
4068966004	RW-10 (5-7.5)	Solid	10/15/12 11:18	10/16/12 08:48

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SAMPLE ANALYTE COUNT

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4068966001	RW-9 (5-7.5)	EPA 8021	LCM	6	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
4068966002	RW-7 (5-7.5)	EPA 8021	LCM	6	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
4068966003	RW-8 (5-7.0)	EPA 8021	LCM	6	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
4068966004	RW-10 (5-7.5)	EPA 8021	LCM	6	PASI-G
		ASTM D2974-87	SKW	1	PASI-G

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ANALYTICAL RESULTS

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Sample: RW-9 (5-7.5) **Lab ID: 4068966001** Collected: 10/15/12 09:50 Received: 10/16/12 08:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Med BTEX	Analytical Method: EPA 8021 Preparation Method: EPA 5030 Medium Soil							
Benzene	**52.2**	ug/kg	23.7	1	10/18/12 09:49	10/18/12 15:00	71-43-2	
Ethylbenzene	**<59.2**	ug/kg	59.2	1	10/18/12 09:49	10/18/12 15:00	100-41-4	
Methyl-tert-butyl ether	**<59.2**	ug/kg	59.2	1	10/18/12 09:49	10/18/12 15:00	1634-04-4	
Toluene	**<59.2**	ug/kg	59.2	1	10/18/12 09:49	10/18/12 15:00	108-88-3	
Xylene (Total)	**<178**	ug/kg	178	1	10/18/12 09:49	10/18/12 15:00	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	64-133	1	10/18/12 09:49	10/18/12 15:00	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.5**	%	0.10	1		10/22/12 15:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Sample: RW-7 (5-7.5) **Lab ID: 4068966002** Collected: 10/15/12 10:28 Received: 10/16/12 08:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Med BTEX	Analytical Method: EPA 8021 Preparation Method: EPA 5030 Medium Soil							
Benzene	**<23.8**	ug/kg	23.8	1	10/18/12 09:49	10/18/12 15:26	71-43-2	
Ethylbenzene	**<59.4**	ug/kg	59.4	1	10/18/12 09:49	10/18/12 15:26	100-41-4	
Methyl-tert-butyl ether	**<59.4**	ug/kg	59.4	1	10/18/12 09:49	10/18/12 15:26	1634-04-4	
Toluene	**<59.4**	ug/kg	59.4	1	10/18/12 09:49	10/18/12 15:26	108-88-3	
Xylene (Total)	**<178**	ug/kg	178	1	10/18/12 09:49	10/18/12 15:26	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (S)	90	%.	64-133	1	10/18/12 09:49	10/18/12 15:26	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.8**	%	0.10	1		10/22/12 15:21		

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ANALYTICAL RESULTS

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Sample: RW-8 (5-7.0) **Lab ID: 4068966003** Collected: 10/15/12 10:54 Received: 10/16/12 08:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Med BTEX	Analytical Method: EPA 8021 Preparation Method: EPA 5030 Medium Soil							
Benzene	**<101**	ug/kg	101	4	10/18/12 09:49	10/18/12 13:18	71-43-2	
Ethylbenzene	**1730**	ug/kg	252	4	10/18/12 09:49	10/18/12 13:18	100-41-4	
Methyl-tert-butyl ether	**<252**	ug/kg	252	4	10/18/12 09:49	10/18/12 13:18	1634-04-4	
Toluene	**943**	ug/kg	252	4	10/18/12 09:49	10/18/12 13:18	108-88-3	
Xylene (Total)	**12400**	ug/kg	755	4	10/18/12 09:49	10/18/12 13:18	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (S)	110	%.	64-133	4	10/18/12 09:49	10/18/12 13:18	98-08-8	D3
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.5**	%	0.10	1		10/22/12 15:21		

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ANALYTICAL RESULTS

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Sample: RW-10 (5-7.5) **Lab ID: 4068966004** Collected: 10/15/12 11:18 Received: 10/16/12 08:48 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Med BTEX	Analytical Method: EPA 8021 Preparation Method: EPA 5030 Medium Soil							
Benzene	**<20.7**	ug/kg	20.7	1	10/18/12 09:49	10/18/12 15:52	71-43-2	
Ethylbenzene	**<51.7**	ug/kg	51.7	1	10/18/12 09:49	10/18/12 15:52	100-41-4	
Methyl-tert-butyl ether	**<51.7**	ug/kg	51.7	1	10/18/12 09:49	10/18/12 15:52	1634-04-4	
Toluene	**<51.7**	ug/kg	51.7	1	10/18/12 09:49	10/18/12 15:52	108-88-3	
Xylene (Total)	**<155**	ug/kg	155	1	10/18/12 09:49	10/18/12 15:52	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (S)	106	%.	64-133	1	10/18/12 09:49	10/18/12 15:52	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.3**	%	0.10	1		10/22/12 15:21		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SHIVAM ENERGY
Pace Project No.: 4068966

QC Batch: GCV/9182 Analysis Method: EPA 8021
QC Batch Method: EPA 5030 Medium Soil Analysis Description: 8021 Med Level Solid GCV
Associated Lab Samples: 4068966001, 4068966002, 4068966003, 4068966004

METHOD BLANK: 695769 Matrix: Solid
Associated Lab Samples: 4068966001, 4068966002, 4068966003, 4068966004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<20.0	20.0	10/18/12 11:09	
Ethylbenzene	ug/kg	<50.0	50.0	10/18/12 11:09	
Methyl-tert-butyl ether	ug/kg	<50.0	50.0	10/18/12 11:09	
Toluene	ug/kg	<50.0	50.0	10/18/12 11:09	
Xylene (Total)	ug/kg	<150	150	10/18/12 11:09	
a,a,a-Trifluorotoluene (S)	%.	107	64-133	10/18/12 11:09	

LABORATORY CONTROL SAMPLE & LCSD: 695770 695771

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/kg	1000	1060	1060	106	106	80-120	0	20	
Ethylbenzene	ug/kg	1000	1050	1020	105	102	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	1040	1000	104	100	80-120	4	20	
Toluene	ug/kg	1000	1060	1030	106	103	80-120	3	20	
Xylene (Total)	ug/kg	3000	3150	3050	105	102	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%.				99	102	64-133			

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QUALITY CONTROL DATA

Project: SHIVAM ENERGY
Pace Project No.: 4068966

QC Batch: PMST/7755 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4068966001, 4068966002, 4068966003, 4068966004

SAMPLE DUPLICATE: 698211

Parameter	Units	4069315001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	50.1	18.5	92	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SHIVAM ENERGY
Pace Project No.: 4068966

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/9184

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SHIVAM ENERGY
Pace Project No.: 4068966

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4068966001	RW-9 (5-7.5)	EPA 5030 Medium Soil	GCV/9182	EPA 8021	GCV/9184
4068966002	RW-7 (5-7.5)	EPA 5030 Medium Soil	GCV/9182	EPA 8021	GCV/9184
4068966003	RW-8 (5-7.0)	EPA 5030 Medium Soil	GCV/9182	EPA 8021	GCV/9184
4068966004	RW-10 (5-7.5)	EPA 5030 Medium Soil	GCV/9182	EPA 8021	GCV/9184
4068966001	RW-9 (5-7.5)	ASTM D2974-87	PMST/7755		
4068966002	RW-7 (5-7.5)	ASTM D2974-87	PMST/7755		
4068966003	RW-8 (5-7.0)	ASTM D2974-87	PMST/7755		
4068966004	RW-10 (5-7.5)	ASTM D2974-87	PMST/7755		

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October 10, 2013

Marcos Czako
TriCore Environmental, LLC.
1800 West Hawthorne Lane
Suite P
West Chicago, IL 60185

RE: Project: 100018 CLARK 646
Pace Project No.: 4086092

Dear Marcos Czako:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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Green Bay, WI 54302
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CERTIFICATIONS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 100018 CLARK 646
Pace Project No.: 4086092

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4086092001	MW-2	Water	10/02/13 15:45	10/04/13 09:10
4086092002	MW-8S	Water	10/02/13 16:20	10/04/13 09:10
4086092003	MW-8D	Water	10/02/13 16:25	10/04/13 09:10
4086092004	MW-9S	Water	10/02/13 16:30	10/04/13 09:10
4086092005	MW-9D	Water	10/02/13 16:35	10/04/13 09:10
4086092006	MW-10S	Water	10/02/13 15:05	10/04/13 09:10
4086092007	MW-10D	Water	10/02/13 15:10	10/04/13 09:10
4086092008	MW-11S	Water	10/02/13 15:15	10/04/13 09:10
4086092009	MW-11D	Water	10/02/13 15:20	10/04/13 09:10
4086092010	MW-12S	Water	10/02/13 15:25	10/04/13 09:10
4086092011	MW-12D	Water	10/02/13 15:30	10/04/13 09:10
4086092012	MW-13	Water	10/02/13 15:00	10/04/13 09:10
4086092013	MW-14	Water	10/02/13 14:30	10/04/13 09:10
4086092014	MW-15	Water	10/02/13 14:20	10/04/13 09:10
4086092015	MW-16	Water	10/02/13 14:15	10/04/13 09:10
4086092016	MW-17	Water	10/02/13 14:10	10/04/13 09:10
4086092017	MW-18	Water	10/02/13 14:40	10/04/13 09:10
4086092018	MW-19	Water	10/02/13 14:45	10/04/13 09:10
4086092019	MW-21	Water	10/02/13 14:00	10/04/13 09:10
4086092020	MW-22	Water	10/02/13 14:50	10/04/13 09:10
4086092021	MW-23	Water	10/02/13 14:55	10/04/13 09:10
4086092022	MW-6	Water	10/03/13 10:15	10/04/13 09:10
4086092023	MW-24	Water	10/03/13 09:30	10/04/13 09:10
4086092024	MW-25	Water	10/03/13 09:40	10/04/13 09:10
4086092025	MW-26	Water	10/03/13 11:50	10/04/13 09:10
4086092026	MW-27	Water	10/03/13 10:00	10/04/13 09:10
4086092027	MW-28	Water	10/03/13 11:45	10/04/13 09:10
4086092028	MW-30	Water	10/03/13 12:00	10/04/13 09:10
4086092029	MW-32	Water	10/03/13 10:30	10/04/13 09:10
4086092030	MW-4	Water	10/03/13 14:30	10/04/13 09:10

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SAMPLE ANALYTE COUNT

Project: 100018 CLARK 646
Pace Project No.: 4086092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4086092001	MW-2	EPA 8021	PMS	6	PASI-G
4086092002	MW-8S	EPA 8021	PMS	6	PASI-G
4086092003	MW-8D	EPA 8021	PMS	6	PASI-G
4086092004	MW-9S	EPA 8021	PMS	6	PASI-G
4086092005	MW-9D	EPA 8021	PMS	6	PASI-G
4086092006	MW-10S	EPA 8021	PMS	6	PASI-G
4086092007	MW-10D	EPA 8021	PMS	6	PASI-G
4086092008	MW-11S	EPA 8021	PMS	6	PASI-G
4086092009	MW-11D	EPA 8021	PMS	6	PASI-G
4086092010	MW-12S	EPA 8021	PMS	6	PASI-G
4086092011	MW-12D	EPA 8021	PMS	6	PASI-G
4086092012	MW-13	EPA 8021	PMS	6	PASI-G
4086092013	MW-14	EPA 8021	PMS	6	PASI-G
4086092014	MW-15	EPA 8021	PMS	6	PASI-G
4086092015	MW-16	EPA 8021	PMS	6	PASI-G
4086092016	MW-17	EPA 8021	PMS	6	PASI-G
4086092017	MW-18	EPA 8021	PMS	6	PASI-G
4086092018	MW-19	EPA 8021	PMS	6	PASI-G
4086092019	MW-21	EPA 8021	PMS	6	PASI-G
4086092020	MW-22	EPA 8021	PMS	6	PASI-G
4086092021	MW-23	EPA 8021	PMS	6	PASI-G
4086092022	MW-6	EPA 8021	PMS	6	PASI-G
4086092023	MW-24	EPA 8021	PMS	6	PASI-G
4086092024	MW-25	EPA 8021	PMS	6	PASI-G
4086092025	MW-26	EPA 8021	PMS	6	PASI-G
4086092026	MW-27	EPA 8021	PMS	6	PASI-G
4086092027	MW-28	EPA 8021	PMS	6	PASI-G
4086092028	MW-30	EPA 8021	PMS	6	PASI-G
4086092029	MW-32	EPA 8021	PMS	6	PASI-G
4086092030	MW-4	EPA 8021	PMS	6	PASI-G

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-2 **Lab ID: 4086092001** Collected: 10/02/13 15:45 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**3200**	ug/L	25.0	8.4	25		10/08/13 13:25	71-43-2	
Ethylbenzene	**81.7**	ug/L	25.0	8.5	25		10/08/13 13:25	100-41-4	
Methyl-tert-butyl ether	**<9.3**	ug/L	25.0	9.3	25		10/08/13 13:25	1634-04-4	
Toluene	**29.5**	ug/L	25.0	8.6	25		10/08/13 13:25	108-88-3	
Xylene (Total)	**127**	ug/L	75.0	25.7	25		10/08/13 13:25	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	80-120		25		10/08/13 13:25	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-8S **Lab ID: 4086092002** Collected: 10/02/13 16:20 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 09:42	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 09:42	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 09:42	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 09:42	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 09:42	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1		10/08/13 09:42	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-8D **Lab ID: 4086092003** Collected: 10/02/13 16:25 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:07	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:07	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 10:07	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:07	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 10:07	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		1		10/08/13 10:07	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-9S **Lab ID: 4086092004** Collected: 10/02/13 16:30 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:31	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:31	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 10:31	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:31	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 10:31	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	80-120		1		10/08/13 10:31	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-9D **Lab ID: 4086092005** Collected: 10/02/13 16:35 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:56	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:56	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 10:56	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 10:56	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 10:56	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%	80-120		1		10/08/13 10:56	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-10S **Lab ID: 4086092006** Collected: 10/02/13 15:05 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 11:21	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 11:21	100-41-4	
Methyl-tert-butyl ether	**2.5**	ug/L	1.0	0.37	1		10/08/13 11:21	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 11:21	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 11:21	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		1		10/08/13 11:21	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-10D **Lab ID: 4086092007** Collected: 10/02/13 15:10 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 11:46	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 11:46	100-41-4	
Methyl-tert-butyl ether	**2.4**	ug/L	1.0	0.37	1		10/08/13 11:46	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 11:46	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 11:46	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		1		10/08/13 11:46	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-11S **Lab ID: 4086092008** Collected: 10/02/13 15:15 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**462**	ug/L	10.0	3.4	10		10/10/13 08:19	71-43-2	
Ethylbenzene	**522**	ug/L	10.0	3.4	10		10/10/13 08:19	100-41-4	
Methyl-tert-butyl ether	**12.9**	ug/L	10.0	3.7	10		10/10/13 08:19	1634-04-4	
Toluene	**279**	ug/L	10.0	3.4	10		10/10/13 08:19	108-88-3	
Xylene (Total)	**1720**	ug/L	30.0	10.3	10		10/10/13 08:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		10		10/10/13 08:19	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-11D **Lab ID: 4086092009** Collected: 10/02/13 15:20 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**3.4**	ug/L	1.0	0.34	1		10/08/13 16:19	71-43-2	
Ethylbenzene	**1.4**	ug/L	1.0	0.34	1		10/08/13 16:19	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 16:19	1634-04-4	
Toluene	**2.6**	ug/L	1.0	0.34	1		10/08/13 16:19	108-88-3	
Xylene (Total)	**3.9**	ug/L	3.0	1.0	1		10/08/13 16:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		1		10/08/13 16:19	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-12S **Lab ID: 4086092010** Collected: 10/02/13 15:25 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 16:43	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 16:43	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 16:43	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 16:43	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 16:43	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		1		10/08/13 16:43	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-12D **Lab ID: 4086092011** Collected: 10/02/13 15:30 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 17:08	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 17:08	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 17:08	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 17:08	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 17:08	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		1		10/08/13 17:08	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-13 **Lab ID: 4086092012** Collected: 10/02/13 15:00 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**3910**	ug/L	50.0	16.8	50		10/10/13 08:44	71-43-2	
Ethylbenzene	**<17.0**	ug/L	50.0	17.0	50		10/10/13 08:44	100-41-4	
Methyl-tert-butyl ether	**<18.6**	ug/L	50.0	18.6	50		10/10/13 08:44	1634-04-4	
Toluene	**<17.2**	ug/L	50.0	17.2	50		10/10/13 08:44	108-88-3	
Xylene (Total)	**<51.4**	ug/L	150	51.4	50		10/10/13 08:44	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		50		10/10/13 08:44	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-14 **Lab ID: 4086092013** Collected: 10/02/13 14:30 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 19:22	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 19:22	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 19:22	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 19:22	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 19:22	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/08/13 19:22	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-15 **Lab ID: 4086092014** Collected: 10/02/13 14:20 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**549**	ug/L	5.0	1.7	5		10/09/13 09:02	71-43-2	
Ethylbenzene	**<1.7**	ug/L	5.0	1.7	5		10/09/13 09:02	100-41-4	
Methyl-tert-butyl ether	**1.9J**	ug/L	5.0	1.9	5		10/09/13 09:02	1634-04-4	
Toluene	**12.1**	ug/L	5.0	1.7	5		10/09/13 09:02	108-88-3	
Xylene (Total)	**15.6**	ug/L	15.0	5.1	5		10/09/13 09:02	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		5		10/09/13 09:02	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-16 **Lab ID: 4086092015** Collected: 10/02/13 14:15 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**7.0**	ug/L	1.0	0.34	1		10/08/13 20:19	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 20:19	100-41-4	
Methyl-tert-butyl ether	**3.5**	ug/L	1.0	0.37	1		10/08/13 20:19	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 20:19	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 20:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/08/13 20:19	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-17 **Lab ID: 4086092016** Collected: 10/02/13 14:10 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**0.49J**	ug/L	1.0	0.34	1		10/08/13 20:48	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 20:48	100-41-4	
Methyl-tert-butyl ether	**6.5**	ug/L	1.0	0.37	1		10/08/13 20:48	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 20:48	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 20:48	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/08/13 20:48	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-18 **Lab ID: 4086092017** Collected: 10/02/13 14:40 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 21:16	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 21:16	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 21:16	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 21:16	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 21:16	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/08/13 21:16	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-19 **Lab ID: 4086092018** Collected: 10/02/13 14:45 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 21:45	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 21:45	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 21:45	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 21:45	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 21:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/08/13 21:45	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-21 **Lab ID: 4086092019** Collected: 10/02/13 14:00 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 22:14	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 22:14	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 22:14	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 22:14	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 22:14	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/08/13 22:14	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-22 **Lab ID: 4086092020** Collected: 10/02/13 14:50 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 22:42	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 22:42	100-41-4	
Methyl-tert-butyl ether	**1.9**	ug/L	1.0	0.37	1		10/08/13 22:42	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 22:42	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 22:42	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/08/13 22:42	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-23 **Lab ID: 4086092021** Collected: 10/02/13 14:55 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 23:40	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 23:40	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 23:40	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 23:40	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 23:40	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/08/13 23:40	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-6 **Lab ID: 4086092022** Collected: 10/03/13 10:15 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 23:11	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 23:11	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/08/13 23:11	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/08/13 23:11	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/08/13 23:11	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/08/13 23:11	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-24 **Lab ID: 4086092023** Collected: 10/03/13 09:30 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 04:26	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 04:26	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/09/13 04:26	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 04:26	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/09/13 04:26	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/09/13 04:26	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-25 **Lab ID: 4086092024** Collected: 10/03/13 09:40 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 03:00	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 03:00	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/09/13 03:00	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 03:00	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/09/13 03:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/09/13 03:00	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-26 **Lab ID: 4086092025** Collected: 10/03/13 11:50 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 03:29	71-43-2	
Ethylbenzene	**0.57J**	ug/L	1.0	0.34	1		10/09/13 03:29	100-41-4	
Methyl-tert-butyl ether	**0.54J**	ug/L	1.0	0.37	1		10/09/13 03:29	1634-04-4	
Toluene	**0.51J**	ug/L	1.0	0.34	1		10/09/13 03:29	108-88-3	
Xylene (Total)	**7.9**	ug/L	3.0	1.0	1		10/09/13 03:29	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	80-120		1		10/09/13 03:29	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-27 **Lab ID: 4086092026** Collected: 10/03/13 10:00 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**3520**	ug/L	25.0	8.4	25		10/09/13 02:03	71-43-2	
Ethylbenzene	**486**	ug/L	25.0	8.5	25		10/09/13 02:03	100-41-4	
Methyl-tert-butyl ether	**<9.3**	ug/L	25.0	9.3	25		10/09/13 02:03	1634-04-4	
Toluene	**2010**	ug/L	25.0	8.6	25		10/09/13 02:03	108-88-3	
Xylene (Total)	**4000**	ug/L	75.0	25.7	25		10/09/13 02:03	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		25		10/09/13 02:03	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-28 **Lab ID: 4086092027** Collected: 10/03/13 11:45 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 03:58	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 03:58	100-41-4	
Methyl-tert-butyl ether	**<0.37**	ug/L	1.0	0.37	1		10/09/13 03:58	1634-04-4	
Toluene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 03:58	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/09/13 03:58	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/09/13 03:58	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-30 **Lab ID: 4086092028** Collected: 10/03/13 12:00 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**6430**	ug/L	50.0	16.8	50		10/09/13 02:32	71-43-2	
Ethylbenzene	**314**	ug/L	50.0	17.0	50		10/09/13 02:32	100-41-4	
Methyl-tert-butyl ether	**<18.6**	ug/L	50.0	18.6	50		10/09/13 02:32	1634-04-4	
Toluene	**4170**	ug/L	50.0	17.2	50		10/09/13 02:32	108-88-3	
Xylene (Total)	**9720**	ug/L	150	51.4	50		10/09/13 02:32	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		50		10/09/13 02:32	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-32 **Lab ID: 4086092029** Collected: 10/03/13 10:30 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**583**	ug/L	5.0	1.7	5		10/09/13 00:37	71-43-2	
Ethylbenzene	**265**	ug/L	5.0	1.7	5		10/09/13 00:37	100-41-4	
Methyl-tert-butyl ether	**2.3J**	ug/L	5.0	1.9	5		10/09/13 00:37	1634-04-4	
Toluene	**17.2**	ug/L	5.0	1.7	5		10/09/13 00:37	108-88-3	
Xylene (Total)	**357**	ug/L	15.0	5.1	5		10/09/13 00:37	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		5		10/09/13 00:37	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 CLARK 646
Pace Project No.: 4086092

Sample: MW-4 **Lab ID: 4086092030** Collected: 10/03/13 14:30 Received: 10/04/13 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**35.6**	ug/L	1.0	0.34	1		10/09/13 04:55	71-43-2	
Ethylbenzene	**<0.34**	ug/L	1.0	0.34	1		10/09/13 04:55	100-41-4	
Methyl-tert-butyl ether	**0.77J**	ug/L	1.0	0.37	1		10/09/13 04:55	1634-04-4	
Toluene	**0.41J**	ug/L	1.0	0.34	1		10/09/13 04:55	108-88-3	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		10/09/13 04:55	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/09/13 04:55	98-08-8	

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QUALITY CONTROL DATA

Project: 100018 CLARK 646
Pace Project No.: 4086092

QC Batch: GCV/11131 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4086092001, 4086092002, 4086092003, 4086092004, 4086092005, 4086092006, 4086092007, 4086092008, 4086092009, 4086092010, 4086092011, 4086092012

METHOD BLANK: 870714 Matrix: Water
Associated Lab Samples: 4086092001, 4086092002, 4086092003, 4086092004, 4086092005, 4086092006, 4086092007, 4086092008, 4086092009, 4086092010, 4086092011, 4086092012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.34	1.0	10/08/13 07:38	
Ethylbenzene	ug/L	<0.34	1.0	10/08/13 07:38	
Methyl-tert-butyl ether	ug/L	<0.37	1.0	10/08/13 07:38	
Toluene	ug/L	<0.34	1.0	10/08/13 07:38	
Xylene (Total)	ug/L	<1.0	3.0	10/08/13 07:38	
a,a,a-Trifluorotoluene (S)	%	95	80-120	10/08/13 07:38	

LABORATORY CONTROL SAMPLE & LCSD: 870715 870716

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	18.4	18.4	92	92	80-120	0	20	
Ethylbenzene	ug/L	20	19.0	18.9	95	95	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	17.8	18.0	89	90	80-120	1	20	
Toluene	ug/L	20	18.8	18.6	94	93	80-120	1	20	
Xylene (Total)	ug/L	60	56.4	56.1	94	94	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				94	94	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870880 870881

Parameter	Units	4086092001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	3200	500	500	3720	3730	104	106	49-165	0	20	
Ethylbenzene	ug/L	81.7	500	500	596	607	103	105	59-156	2	20	
Methyl-tert-butyl ether	ug/L	<9.3	500	500	451	475	90	95	80-127	5	20	
Toluene	ug/L	29.5	500	500	535	546	101	103	80-135	2	20	
Xylene (Total)	ug/L	127	1500	1500	1630	1660	100	102	48-165	2	20	
a,a,a-Trifluorotoluene (S)	%						94	94	80-120			

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 100018 CLARK 646
Pace Project No.: 4086092

QC Batch: GCV/11132 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4086092013, 4086092014, 4086092015, 4086092016, 4086092017, 4086092018, 4086092019, 4086092020, 4086092021, 4086092022, 4086092023, 4086092024, 4086092025, 4086092026, 4086092027, 4086092028, 4086092029, 4086092030

METHOD BLANK: 870717 Matrix: Water
Associated Lab Samples: 4086092013, 4086092014, 4086092015, 4086092016, 4086092017, 4086092018, 4086092019, 4086092020, 4086092021, 4086092022, 4086092023, 4086092024, 4086092025, 4086092026, 4086092027, 4086092028, 4086092029, 4086092030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.34	1.0	10/08/13 17:55	
Ethylbenzene	ug/L	<0.34	1.0	10/08/13 17:55	
Methyl-tert-butyl ether	ug/L	<0.37	1.0	10/08/13 17:55	
Toluene	ug/L	<0.34	1.0	10/08/13 17:55	
Xylene (Total)	ug/L	<1.0	3.0	10/08/13 17:55	
a,a,a-Trifluorotoluene (S)	%	101	80-120	10/08/13 17:55	

LABORATORY CONTROL SAMPLE & LCSD: 870718 870719

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	18.0	18.5	90	92	80-120	2	20	
Ethylbenzene	ug/L	20	18.6	18.9	93	95	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	17.8	17.4	89	87	80-120	2	20	
Toluene	ug/L	20	18.3	18.7	91	94	80-120	2	20	
Xylene (Total)	ug/L	60	55.5	56.4	93	94	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 870890 870891

Parameter	Units	4086092029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	583	100	100	699	659	116	76	49-165	6	20	
Ethylbenzene	ug/L	265	100	100	388	370	123	105	59-156	5	20	
Methyl-tert-butyl ether	ug/L	2.3J	100	100	90.0	92.7	88	90	80-127	3	20	
Toluene	ug/L	17.2	100	100	118	116	101	99	80-135	2	20	
Xylene (Total)	ug/L	357	300	300	733	701	125	115	48-165	5	20	
a,a,a-Trifluorotoluene (S)	%						103	103	80-120			

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 100018 CLARK 646
Pace Project No.: 4086092

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 CLARK 646
Pace Project No.: 4086092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4086092001	MW-2	EPA 8021	GCV/11131		
4086092002	MW-8S	EPA 8021	GCV/11131		
4086092003	MW-8D	EPA 8021	GCV/11131		
4086092004	MW-9S	EPA 8021	GCV/11131		
4086092005	MW-9D	EPA 8021	GCV/11131		
4086092006	MW-10S	EPA 8021	GCV/11131		
4086092007	MW-10D	EPA 8021	GCV/11131		
4086092008	MW-11S	EPA 8021	GCV/11131		
4086092009	MW-11D	EPA 8021	GCV/11131		
4086092010	MW-12S	EPA 8021	GCV/11131		
4086092011	MW-12D	EPA 8021	GCV/11131		
4086092012	MW-13	EPA 8021	GCV/11131		
4086092013	MW-14	EPA 8021	GCV/11132		
4086092014	MW-15	EPA 8021	GCV/11132		
4086092015	MW-16	EPA 8021	GCV/11132		
4086092016	MW-17	EPA 8021	GCV/11132		
4086092017	MW-18	EPA 8021	GCV/11132		
4086092018	MW-19	EPA 8021	GCV/11132		
4086092019	MW-21	EPA 8021	GCV/11132		
4086092020	MW-22	EPA 8021	GCV/11132		
4086092021	MW-23	EPA 8021	GCV/11132		
4086092022	MW-6	EPA 8021	GCV/11132		
4086092023	MW-24	EPA 8021	GCV/11132		
4086092024	MW-25	EPA 8021	GCV/11132		
4086092025	MW-26	EPA 8021	GCV/11132		
4086092026	MW-27	EPA 8021	GCV/11132		
4086092027	MW-28	EPA 8021	GCV/11132		
4086092028	MW-30	EPA 8021	GCV/11132		
4086092029	MW-32	EPA 8021	GCV/11132		
4086092030	MW-4	EPA 8021	GCV/11132		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

4086092

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TRICORE ENVIRONMENTAL LLC
Branch/Location:	West Chicago, IL
Project Contact:	Marcos Czako
Phone:	630 520-9973
Project Number:	100018
Project Name:	CLARK 646
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	LUST

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	SHAWN RODECK
Invoice To Company:	TriCore Environmental LLC
Invoice To Address:	1800 W Hawthorne Ln Suite P West Chicago, IL
Invoice To Phone:	630 520-9973

FILTERED? (YES/NO) Y/N: N
PRESERVATION (CODE)* Pick Letter: B

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Analyses Requested: BTEX/MTBE

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	BTEX/MTBE	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-2	10-2-13	15:45	GW	X	3-40 ml BOK	MH 10/4/13	
002	MW-8S	10-2-13	16:20	GW	X			
003	MW-8D	10-2-13	16:25	GW	X			
004	MW-9S	10-2-13	16:30	GW	X			
005	MW-9D	10-2-13	16:35	GW	X			
006	MW-10S	10-2-13	15:05	GW	X			
007	MW-10D	10-2-13	15:10	GW	X			
008	MW-11S	10-2-13	15:15	GW	X			
009	MW-11D	10-2-13	15:20	GW	X			
010	MW-12S	10-2-13	15:25	GW	X			
011	MW-12D	10-2-13	15:30	GW	X			
012	MW-13	10-2-13	15:00	GW	X			
013	MW-14	10-2-13	14:30	GW	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Randy Wilson	10/3/13 16:45	[signature]	10/3/13 1645
[signature]	10/3/13 1700	[signature]	10/3/13
CSLogistics	10/4/13 0910	Magnate PACE GB	10/4/13 0910

PACE Project No. 4086092
Receipt Temp = °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27 Jun2006)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

4086092

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TriCore Environmental LLC
Branch/Location:	West Chicago, IL
Project Contact:	Marcos Czako
Phone:	630 520-9973
Project Number:	100018
Project Name:	CLARK 646
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	LUST

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	SHAWN RODECK
Invoice To Company:	TriCore Environmental LLC
Invoice To Address:	6000 W Hawthorne Ln Suite P West Chicago, IL
Invoice To Phone:	630 520-9973

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	BTEX / MTBE	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	B		3 - 40 ml B	MH 10/4/13	
014	MW-15	10-2-13	14:20	GW			X			
015	MW-16	10-2-13	14:15	GW			X			
016	MW-17	10-2-13	14:10	GW			X			
017	MW-18	10-2-13	14:40	GW			X			
018	MW-19	10-2-13	14:45	GW			X			
019	MW-21	10-2-13	14:00	GW			X			
020	MW-22	10-2-13	14:50	GW			X			
021	MW-23	10-2-13	14:55	GW			X			
022	MW-6	10-3-13	10:15	GW			X			
023	MW-24	10-3-13	9:30	GW			X			
024	MW-25	10-3-13	9:40	GW			X			
025	MW-26	10-3-13	11:50	GW			X			
026	MW-27	10-3-13	10:00	GW			X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Randy Wilson	10/3/13 16:45		10/3/13 16:45
	10/3/13 1700		10/3/13 1700

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 05/14/06

C019a(27-Jun2006)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TriCore Environmental
Branch/Location:	West Chicago, IL
Project Contact:	Marcos Czako
Phone:	630 520-9973
Project Number:	100018
Project Name:	CLARK 646
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	SHAWN RODECK
Invoice To Company:	TRICORE Environmental
Invoice To Address:	1800 W Hawthorne Ln suite P West Chicago, IL
Invoice To Phone:	630 520-9973

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: BTEX/MTBE	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B				
027	MW-28	10-3-13	11:45	GW			X	3-40 ml B		
028	MW-30	10-3-13	12:00	GW			X	3-40 ml B	SK	
029	MW-32	10-3-13	10:30	GW			X	3-40 ml B	mlt	
030	MW-4	10-3-13	14:30	GW			X	3-40 ml B	10/4/13	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	10/3/13 16:45	[signature]	10/3/13 16:45
[signature]	10/3/13 1700	[signature]	10/3/13
[signature]	10/4/13 0910	[signature] PACELB	10/4/13 0910

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical
Pace Analytical Services
1241 Bellevue Street, Si
Green Bay, WI 5

Sample Condition Upon Receipt

Client Name: Tri Core Project # 4086092

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SP-32 Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: 1 Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 10/4/13
Initials:

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm): 10/4/13	☒Yes ☐No ☐N/A	14. 028 1 vial has headspace 10/4/13 MV
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☒No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: LW Date: 10/9/13

4086092

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: FORMER CLARK #646

Site Address (Not a P.O. Box): 399 Liberty ST.

City: Wauconda, IL County: LAKE ZIP Code: _____

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. (initial)
2. Chain-of-custody procedures were followed in the field. (initial)
3. Sample integrity was maintained by proper preservation. (initial)
4. All samples were properly labeled. (initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms (initial)
2. Sample integrity was maintained by proper preservation. (initial)
3. All samples were properly labeled. (initial)

4086092

4. Quality assurance/quality control procedures were established and carried out. (initial)

5. Sample holding times were not exceeded. (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Randy Wilson
Title: Senior Technician
Company: TriCove Environmental
Address: 1800 W Hawthorne Suite P
City, State, ZIP: West Chicago IL 60185
Phone: 630 520-9973
Signature: Randy Wilson
Date: 10-3-13

Laboratory Representative

Name: Laurie Urethel
Title: Project Manager
Company: Pace Analytical
Address: 124 Bellevue St
City, State, ZIP: Green Bay WI 54302
Phone: 920 469-2436
Signature: Laurie Urethel
Date: 10/2/13

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www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 12, 2015

Marcos Czako
TriCore Environmental, LLC.
2368 Corporate Lane
Suite 116
Naperville, IL 60563

RE: Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Dear Marcos Czako:
Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40114322001	RW-4	Water	05/05/15 13:10	05/07/15 09:10
40114322002	RW-5	Water	05/05/15 14:55	05/07/15 09:10
40114322003	RW-6	Water	05/05/15 14:46	05/07/15 09:10
40114322004	RW-10	Water	05/05/15 14:10	05/07/15 09:10
40114322005	RW-1	Water	05/05/15 14:50	05/07/15 09:10
40114322006	RW-9	Water	05/05/15 14:15	05/07/15 09:10
40114322007	RW-1 04	Water	05/05/15 14:20	05/07/15 09:10
40114322008	RW-7	Water	05/05/15 14:25	05/07/15 09:10
40114322009	RW-8	Water	05/05/15 14:41	05/07/15 09:10
40114322010	MW-29	Water	05/05/15 14:00	05/07/15 09:10

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SAMPLE ANALYTE COUNT

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40114322001	RW-4	EPA 8021	LCF	6	PASI-G
40114322002	RW-5	EPA 8021	LCF	6	PASI-G
40114322003	RW-6	EPA 8021	LCF	6	PASI-G
40114322004	RW-10	EPA 8021	LCF	6	PASI-G
40114322005	RW-1	EPA 8021	LCF	6	PASI-G
40114322006	RW-9	EPA 8021	LCF	6	PASI-G
40114322007	RW-1 04	EPA 8021	LCF	6	PASI-G
40114322008	RW-7	EPA 8021	LCF	6	PASI-G
40114322009	RW-8	EPA 8021	LCF	6	PASI-G
40114322010	MW-29	EPA 8021	LCF	6	PASI-G

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-4 **Lab ID: 40114322001** Collected: 05/05/15 13:10 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**207**	ug/L	20.0	7.9	20		05/08/15 16:04	71-43-2	
Ethylbenzene	**287**	ug/L	20.0	7.9	20		05/08/15 16:04	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		05/08/15 16:04	1634-04-4	
Toluene	**38.1**	ug/L	20.0	7.8	20		05/08/15 16:04	108-88-3	
Xylene (Total)	**1510**	ug/L	60.0	24.9	20		05/08/15 16:04	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		20		05/08/15 16:04	98-08-8	D3

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-5 **Lab ID: 40114322002** Collected: 05/05/15 14:55 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**1610**	ug/L	20.0	7.9	20		05/08/15 16:30	71-43-2	
Ethylbenzene	**694**	ug/L	20.0	7.9	20		05/08/15 16:30	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		05/08/15 16:30	1634-04-4	
Toluene	**827**	ug/L	20.0	7.8	20		05/08/15 16:30	108-88-3	
Xylene (Total)	**4430**	ug/L	60.0	24.9	20		05/08/15 16:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		20		05/08/15 16:30	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-6 **Lab ID: 40114322003** Collected: 05/05/15 14:46 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**14.2J**	ug/L	20.0	7.9	20		05/08/15 16:56	71-43-2	
Ethylbenzene	**258**	ug/L	20.0	7.9	20		05/08/15 16:56	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		05/08/15 16:56	1634-04-4	
Toluene	**288**	ug/L	20.0	7.8	20		05/08/15 16:56	108-88-3	
Xylene (Total)	**3060**	ug/L	60.0	24.9	20		05/08/15 16:56	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		20		05/08/15 16:56	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-10 **Lab ID: 40114322004** Collected: 05/05/15 14:10 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**0.64J**	ug/L	1.0	0.40	1		05/08/15 11:21	71-43-2	
Ethylbenzene	**2.6**	ug/L	1.0	0.39	1		05/08/15 11:21	100-41-4	
Methyl-tert-butyl ether	**7.6**	ug/L	1.0	0.48	1		05/08/15 11:21	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/08/15 11:21	108-88-3	
Xylene (Total)	**3.7**	ug/L	3.0	1.2	1		05/08/15 11:21	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	110	%	80-120		1		05/08/15 11:21	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-1 **Lab ID: 40114322005** Collected: 05/05/15 14:50 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**200**	ug/L	5.0	2.0	5		05/08/15 13:30	71-43-2	
Ethylbenzene	**130**	ug/L	5.0	2.0	5		05/08/15 13:30	100-41-4	
Methyl-tert-butyl ether	**<2.4**	ug/L	5.0	2.4	5		05/08/15 13:30	1634-04-4	
Toluene	**34.3**	ug/L	5.0	1.9	5		05/08/15 13:30	108-88-3	
Xylene (Total)	**506**	ug/L	15.0	6.2	5		05/08/15 13:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		5		05/08/15 13:30	98-08-8	D3

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-9 **Lab ID: 40114322006** Collected: 05/05/15 14:15 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**93.6**	ug/L	1.0	0.40	1		05/08/15 10:30	71-43-2	
Ethylbenzene	**5.3**	ug/L	1.0	0.39	1		05/08/15 10:30	100-41-4	
Methyl-tert-butyl ether	**2.2**	ug/L	1.0	0.48	1		05/08/15 10:30	1634-04-4	
Toluene	**3.2**	ug/L	1.0	0.39	1		05/08/15 10:30	108-88-3	
Xylene (Total)	**17.6**	ug/L	3.0	1.2	1		05/08/15 10:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		05/08/15 10:30	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-1 04 **Lab ID: 40114322007** Collected: 05/05/15 14:20 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**61.0**	ug/L	1.0	0.40	1		05/08/15 10:56	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/08/15 10:56	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		05/08/15 10:56	1634-04-4	
Toluene	**0.73J**	ug/L	1.0	0.39	1		05/08/15 10:56	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/08/15 10:56	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		05/08/15 10:56	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-7 **Lab ID: 40114322008** Collected: 05/05/15 14:25 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**379**	ug/L	4.0	1.6	4		05/08/15 14:47	71-43-2	
Ethylbenzene	**146**	ug/L	4.0	1.6	4		05/08/15 14:47	100-41-4	
Methyl-tert-butyl ether	**2.0J**	ug/L	4.0	1.9	4		05/08/15 14:47	1634-04-4	
Toluene	**188**	ug/L	4.0	1.6	4		05/08/15 14:47	108-88-3	
Xylene (Total)	**731**	ug/L	12.0	5.0	4		05/08/15 14:47	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		4		05/08/15 14:47	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: RW-8 **Lab ID: 40114322009** Collected: 05/05/15 14:41 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**798**	ug/L	20.0	7.9	20		05/08/15 17:21	71-43-2	
Ethylbenzene	**287**	ug/L	20.0	7.9	20		05/08/15 17:21	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		05/08/15 17:21	1634-04-4	
Toluene	**624**	ug/L	20.0	7.8	20		05/08/15 17:21	108-88-3	
Xylene (Total)	**3840**	ug/L	60.0	24.9	20		05/08/15 17:21	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		20		05/08/15 17:21	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Sample: MW-29 **Lab ID: 40114322010** Collected: 05/05/15 14:00 Received: 05/07/15 09:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**870**	ug/L	50.0	19.8	50		05/08/15 17:47	71-43-2	
Ethylbenzene	**555**	ug/L	50.0	19.6	50		05/08/15 17:47	100-41-4	
Methyl-tert-butyl ether	**<24.2**	ug/L	50.0	24.2	50		05/08/15 17:47	1634-04-4	
Toluene	**1430**	ug/L	50.0	19.4	50		05/08/15 17:47	108-88-3	
Xylene (Total)	**9750**	ug/L	150	62.4	50		05/08/15 17:47	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		50		05/08/15 17:47	98-08-8	

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

QC Batch: GCV/14341 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 40114322001, 40114322002, 40114322003, 40114322004, 40114322005, 40114322006, 40114322007, 40114322008, 40114322009, 40114322010

METHOD BLANK: 1154254 Matrix: Water
Associated Lab Samples: 40114322001, 40114322002, 40114322003, 40114322004, 40114322005, 40114322006, 40114322007, 40114322008, 40114322009, 40114322010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	1.0	05/08/15 07:30	
Ethylbenzene	ug/L	<0.39	1.0	05/08/15 07:30	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	05/08/15 07:30	
Toluene	ug/L	<0.39	1.0	05/08/15 07:30	
Xylene (Total)	ug/L	<1.2	3.0	05/08/15 07:30	
a,a,a-Trifluorotoluene (S)	%	105	80-120	05/08/15 07:30	

LABORATORY CONTROL SAMPLE & LCSD: 1154255 1154256

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.1	21.1	105	106	80-120	0	20	
Ethylbenzene	ug/L	20	21.3	21.3	106	106	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	21.0	20.7	105	104	80-120	1	20	
Toluene	ug/L	20	21.0	21.0	105	105	80-120	0	20	
Xylene (Total)	ug/L	60	63.4	63.8	106	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				105	105	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1154401 1154402

Parameter	Units	40114322005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	200	100	100	316	311	116	111	69-150	2	20	
Ethylbenzene	ug/L	130	100	100	253	249	122	119	80-146	1	20	
Methyl-tert-butyl ether	ug/L	<2.4	100	100	108	105	108	105	80-120	2	20	
Toluene	ug/L	34.3	100	100	148	148	114	114	67-156	0	20	
Xylene (Total)	ug/L	506	300	300	874	867	123	120	71-162	1	20	
a,a,a-Trifluorotoluene (S)	%						108	108	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40114322001	RW-4	EPA 8021	GCV/14341		
40114322002	RW-5	EPA 8021	GCV/14341		
40114322003	RW-6	EPA 8021	GCV/14341		
40114322004	RW-10	EPA 8021	GCV/14341		
40114322005	RW-1	EPA 8021	GCV/14341		
40114322006	RW-9	EPA 8021	GCV/14341		
40114322007	RW-1 04	EPA 8021	GCV/14341		
40114322008	RW-7	EPA 8021	GCV/14341		
40114322009	RW-8	EPA 8021	GCV/14341		
40114322010	MW-29	EPA 8021	GCV/14341		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40114322

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TriCore Environmental LLC
Branch/Location:	Naperville, IL
Project Contact:	MARCOS CZAKO
Phone:	(630) 520-9973
Project Number:	100018
Project Name:	FORMER CLARK 646
Project State:	ILLINOIS
Sampled By (Print):	RANDY WILSON
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	LUST

FILTERED? (YES/NO) — PRESERVATION (CODE)*

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	SHAWN RODECK
Invoice To Company:	TRICORE ENVIRONMENT.
Invoice To Address:	2368 Corporate Lane Suite 116 Naperville, IL 60563
Invoice To Phone:	630 520-9973

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Analyses Requested: Y/N: N; Pick Letter: B; BTEX/MTBE 8021

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	BTEX/MTBE 8021	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	~~RW-3~~	~~5/5/15~~	~~13:22~~	~~GW~~	~~3~~		RW	
001	RW-4		13:10	GW	3		3-40mlvB	
002	RW-5		14:55	GW	3			
003	RW-6		14:46	GW	3			
004	RW-10		14:10	GW	3			
005	RW-1		14:50	GW	3			
006	RW-9		14:15	GW	3			
007	RW-1 04		14:20	GW	3			
008	RW-7		14:25	GW	3			
009	RW-8		14:41	GW	3			
010	MW-29	5/5/15	14:00	GW	3			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Randy Wilson	5/6/15 14:00	Brian Kuczynski	5/6/15 1400
Brian Kuczynski	5/6/15 1700	C S Rogerson	5/6/15
C S Rogerson	5-7-15 0910	Susan Kuhn	5-7-15 0910

PACE Project No. 40114322

Receipt Temp = 4 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO# : 40114322

40114322

Client Name: Tri Core

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: C&S Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR44 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 5-7-15
Initials: SCU

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	14.
Trip Blank Present:	☐Yes	☒No	☐N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: LKW **Date:** 5/7/15

This page can be completed online.

40114322

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Former Clark Retail Station #646

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. RW (initial)
2. Chain-of-custody procedures were followed in the field. RW (initial)
3. Sample integrity was maintained by proper preservation. RW (initial)
4. All samples were properly labeled. RW (initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms LW (initial)
2. Sample integrity was maintained by proper preservation. LW (initial)
3. All samples were properly labeled. LW (initial)

4014322

4. Quality assurance/quality control procedures were established and carried out. LW (initial)

5. Sample holding times were not exceeded. LW (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. LW (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). LW (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Randy Wilson

Title: Senior Technician

Company: TriCore Environmental, LLC

Address: 2368 Corporate Lane, Suite 116

City, State, ZIP: Naperville, IL 60563

Phone: 630-520-9973

Signature: Randy Wilson

Date: 5/5/15

Laboratory Representative

Name: Laurie Woelfel

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1241 Bellevue Street, Suite 9

City, State, ZIP: Green Bay, WI 54302

Phone: (920) 469-2436

Signature: Laurie Woelfel

Date: 5/12/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 15, 2015

Marcos Czako
TriCore Environmental, LLC.
2368 Corporate Lane
Suite 116
Naperville, IL 60563

RE: Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Dear Marcos Czako:
Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40114429001	INFLUENT	Water	05/07/15 11:45	05/08/15 10:45
40114429002	INFLUENT	Water	05/07/15 13:05	05/08/15 10:45
40114429003	EFFLUENT	Water	05/07/15 11:50	05/08/15 10:45
40114429004	MW-32	Water	05/07/15 14:10	05/08/15 10:45
40114429005	MW-2	Water	05/07/15 13:10	05/08/15 10:45
40114429006	MW-27	Water	05/07/15 14:20	05/08/15 10:45
40114429007	MW-13	Water	05/07/15 13:50	05/08/15 10:45
40114429008	MW-11S	Water	05/07/15 14:00	05/08/15 10:45
40114429009	RW-3	Water	05/07/15 15:00	05/08/15 10:45
40114429010	MW-14	Water	05/07/15 14:15	05/08/15 10:45
40114429011	MW-15	Water	05/07/15 13:05	05/08/15 10:45
40114429012	MW-16	Water	05/07/15 13:15	05/08/15 10:45
40114429013	MW-17	Water	05/07/15 12:20	05/08/15 10:45
40114429014	MW-18	Water	05/07/15 14:20	05/08/15 10:45
40114429015	MW-19	Water	05/07/15 12:30	05/08/15 10:45

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SAMPLE ANALYTE COUNT

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40114429001	INFLUENT	EPA 8021	PMS	6	PASI-G
40114429002	INFLUENT	EPA 6010	MMZ	2	PASI-G
40114429003	EFFLUENT	EPA 8021	PMS	6	PASI-G
40114429004	MW-32	EPA 8021	PMS	6	PASI-G
40114429005	MW-2	EPA 8021	PMS	6	PASI-G
40114429006	MW-27	EPA 8021	PMS	6	PASI-G
40114429007	MW-13	EPA 8021	LCF	6	PASI-G
40114429008	MW-11S	EPA 8021	LCF	6	PASI-G
40114429009	RW-3	EPA 8021	LCF	6	PASI-G
40114429010	MW-14	EPA 8021	PMS	6	PASI-G
40114429011	MW-15	EPA 8021	LCF	6	PASI-G
40114429012	MW-16	EPA 8021	LCF	6	PASI-G
40114429013	MW-17	EPA 8021	LCF	6	PASI-G
40114429014	MW-18	EPA 8021	LCF	6	PASI-G
40114429015	MW-19	EPA 8021	LCF	6	PASI-G

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: INFLUENT **Lab ID: 40114429001** Collected: 05/07/15 11:45 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**40.4**	ug/L	2.0	0.79	2		05/14/15 22:56	71-43-2	
Ethylbenzene	**17.0**	ug/L	2.0	0.79	2		05/14/15 22:56	100-41-4	
Methyl-tert-butyl ether	**<0.97**	ug/L	2.0	0.97	2		05/14/15 22:56	1634-04-4	
Toluene	**52.3**	ug/L	2.0	0.78	2		05/14/15 22:56	108-88-3	
Xylene (Total)	**379**	ug/L	6.0	2.5	2		05/14/15 22:56	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		2		05/14/15 22:56	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: INFLUENT **Lab ID: 40114429002** Collected: 05/07/15 13:05 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**4260**	ug/L	100	15.9	1	05/11/15 09:57	05/11/15 17:19	7439-89-6	
Total Hardness by 2340B	**488000**	ug/L	2000	150	1	05/11/15 09:57	05/11/15 17:19		

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: EFFLUENT **Lab ID: 40114429003** Collected: 05/07/15 11:50 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**0.72J**	ug/L	1.0	0.40	1		05/14/15 19:56	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 19:56	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		05/14/15 19:56	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 19:56	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/14/15 19:56	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		05/14/15 19:56	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-32 **Lab ID: 40114429004** Collected: 05/07/15 14:10 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**8.6J**	ug/L	20.0	7.9	20		05/14/15 20:22	71-43-2	
Ethylbenzene	**114**	ug/L	20.0	7.9	20		05/14/15 20:22	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		05/14/15 20:22	1634-04-4	
Toluene	**9.6J**	ug/L	20.0	7.8	20		05/14/15 20:22	108-88-3	
Xylene (Total)	**1150**	ug/L	60.0	24.9	20		05/14/15 20:22	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		20		05/14/15 20:22	98-08-8	D3

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-2 **Lab ID: 40114429005** Collected: 05/07/15 13:10 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**2.9**	ug/L	2.5	0.99	2.5		05/14/15 21:39	71-43-2	
Ethylbenzene	**85.5**	ug/L	2.5	0.98	2.5		05/14/15 21:39	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	2.5	1.2	2.5		05/14/15 21:39	1634-04-4	
Toluene	**3.5**	ug/L	2.5	0.97	2.5		05/14/15 21:39	108-88-3	
Xylene (Total)	**795**	ug/L	7.5	3.1	2.5		05/14/15 21:39	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		2.5		05/14/15 21:39	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-27 **Lab ID: 40114429006** Collected: 05/07/15 14:20 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**875**	ug/L	5.0	2.0	5		05/14/15 22:04	71-43-2	
Ethylbenzene	**139**	ug/L	5.0	2.0	5		05/14/15 22:04	100-41-4	
Methyl-tert-butyl ether	**<2.4**	ug/L	5.0	2.4	5		05/14/15 22:04	1634-04-4	
Toluene	**15.3**	ug/L	5.0	1.9	5		05/14/15 22:04	108-88-3	
Xylene (Total)	**367**	ug/L	15.0	6.2	5		05/14/15 22:04	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		5		05/14/15 22:04	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-13 **Lab ID: 40114429007** Collected: 05/07/15 13:50 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**0.72J**	ug/L	1.0	0.40	1		05/14/15 12:00	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 12:00	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		05/14/15 12:00	1634-04-4	
Toluene	**1.9**	ug/L	1.0	0.39	1		05/14/15 12:00	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/14/15 12:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		05/14/15 12:00	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-11S **Lab ID: 40114429008** Collected: 05/07/15 14:00 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**2.7**	ug/L	1.0	0.40	1		05/14/15 10:18	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 10:18	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		05/14/15 10:18	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 10:18	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/14/15 10:18	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		05/14/15 10:18	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: RW-3 **Lab ID: 40114429009** Collected: 05/07/15 15:00 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.40**	ug/L	1.0	0.40	1		05/14/15 10:44	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 10:44	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		05/14/15 10:44	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 10:44	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/14/15 10:44	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		05/14/15 10:44	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-14 **Lab ID: 40114429010** Collected: 05/07/15 14:15 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**506**	ug/L	10.0	4.0	10		05/14/15 22:30	71-43-2	
Ethylbenzene	**367**	ug/L	10.0	3.9	10		05/14/15 22:30	100-41-4	
Methyl-tert-butyl ether	**<4.8**	ug/L	10.0	4.8	10		05/14/15 22:30	1634-04-4	
Toluene	**235**	ug/L	10.0	3.9	10		05/14/15 22:30	108-88-3	
Xylene (Total)	**2220**	ug/L	30.0	12.5	10		05/14/15 22:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	110	%	80-120		10		05/14/15 22:30	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-15 **Lab ID: 40114429011** Collected: 05/07/15 13:05 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**1530**	ug/L	10.0	4.0	10		05/15/15 09:01	71-43-2	
Ethylbenzene	**<3.9**	ug/L	10.0	3.9	10		05/15/15 09:01	100-41-4	
Methyl-tert-butyl ether	**<4.8**	ug/L	10.0	4.8	10		05/15/15 09:01	1634-04-4	
Toluene	**12.6**	ug/L	10.0	3.9	10		05/15/15 09:01	108-88-3	
Xylene (Total)	**27.2J**	ug/L	30.0	12.5	10		05/15/15 09:01	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		10		05/15/15 09:01	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-16 **Lab ID: 40114429012** Collected: 05/07/15 13:15 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**3.7**	ug/L	1.0	0.40	1		05/14/15 11:35	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 11:35	100-41-4	
Methyl-tert-butyl ether	**1.7**	ug/L	1.0	0.48	1		05/14/15 11:35	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 11:35	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/14/15 11:35	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		05/14/15 11:35	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-17 **Lab ID: 40114429013** Collected: 05/07/15 12:20 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**1.0**	ug/L	1.0	0.40	1		05/14/15 12:26	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 12:26	100-41-4	
Methyl-tert-butyl ether	**7.1**	ug/L	1.0	0.48	1		05/14/15 12:26	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/14/15 12:26	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/14/15 12:26	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		05/14/15 12:26	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-18 **Lab ID: 40114429014** Collected: 05/07/15 14:20 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.40**	ug/L	1.0	0.40	1		05/13/15 11:00	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/13/15 11:00	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		05/13/15 11:00	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/13/15 11:00	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/13/15 11:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		05/13/15 11:00	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Sample: MW-19 **Lab ID: 40114429015** Collected: 05/07/15 12:30 Received: 05/08/15 10:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**<0.40**	ug/L	1.0	0.40	1		05/13/15 11:25	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		05/13/15 11:25	100-41-4	
Methyl-tert-butyl ether	**0.51J**	ug/L	1.0	0.48	1		05/13/15 11:25	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		05/13/15 11:25	108-88-3	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		05/13/15 11:25	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		05/13/15 11:25	98-08-8	

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

QC Batch: GCV/14354 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 40114429007, 40114429008, 40114429009, 40114429011, 40114429012, 40114429013, 40114429014, 40114429015

METHOD BLANK: 1155872 Matrix: Water
Associated Lab Samples: 40114429007, 40114429008, 40114429009, 40114429011, 40114429012, 40114429013, 40114429014, 40114429015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	1.0	05/13/15 08:52	
Ethylbenzene	ug/L	<0.39	1.0	05/13/15 08:52	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	05/13/15 08:52	
Toluene	ug/L	<0.39	1.0	05/13/15 08:52	
Xylene (Total)	ug/L	<1.2	3.0	05/13/15 08:52	
a,a,a-Trifluorotoluene (S)	%	101	80-120	05/13/15 08:52	

LABORATORY CONTROL SAMPLE & LCSD: 1155873 1155874

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.5	21.5	108	108	80-120	0	20	
Ethylbenzene	ug/L	20	21.5	21.7	108	109	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.6	21.5	108	108	80-120	0	20	
Toluene	ug/L	20	21.3	21.4	106	107	80-120	1	20	
Xylene (Total)	ug/L	60	63.5	64.2	106	107	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	103	80-120			

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

QC Batch: GCV/14376 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 40114429001, 40114429003, 40114429004, 40114429005, 40114429006, 40114429010

METHOD BLANK: 1158074 Matrix: Water
Associated Lab Samples: 40114429001, 40114429003, 40114429004, 40114429005, 40114429006, 40114429010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.40	1.0	05/14/15 18:39	
Ethylbenzene	ug/L	<0.39	1.0	05/14/15 18:39	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	05/14/15 18:39	
Toluene	ug/L	<0.39	1.0	05/14/15 18:39	
Xylene (Total)	ug/L	<1.2	3.0	05/14/15 18:39	
a,a,a-Trifluorotoluene (S)	%	106	80-120	05/14/15 18:39	

LABORATORY CONTROL SAMPLE & LCSD: 1158075 1158076

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.1	19.9	105	100	80-120	6	20	
Ethylbenzene	ug/L	20	21.2	20.0	106	100	80-120	6	20	
Methyl-tert-butyl ether	ug/L	20	21.2	20.3	106	101	80-120	4	20	
Toluene	ug/L	20	20.9	19.8	105	99	80-120	6	20	
Xylene (Total)	ug/L	60	63.8	60.2	106	100	80-120	6	20	
a,a,a-Trifluorotoluene (S)	%				106	105	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1156300 1156301

Parameter	Units	40114429004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	8.6J	400	400	480	481	118	118	69-150	0	20	
Ethylbenzene	ug/L	114	400	400	591	588	119	119	80-146	1	20	
Methyl-tert-butyl ether	ug/L	<9.7	400	400	447	442	112	110	80-120	1	20	
Toluene	ug/L	9.6J	400	400	473	474	116	116	67-156	0	20	
Xylene (Total)	ug/L	1150	1200	1200	2550	2520	117	114	71-162	1	20	
a,a,a-Trifluorotoluene (S)	%						110	110	80-120			

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

QC Batch: MPRP/11865
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 40114429002

METHOD BLANK: 1155358
Matrix: Water
Associated Lab Samples: 40114429002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<15.9	100	05/12/15 14:33	
Total Hardness by 2340B	ug/L	<150	2000	05/11/15 16:23	

LABORATORY CONTROL SAMPLE: 1155359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	5000	4810	96	80-120	
Total Hardness by 2340B	ug/L		31700			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1155360 1155361

Parameter	Units	40114192001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	54.8J	5000	5000	4910	4930	97	97	75-125	0	20	
Total Hardness by 2340B	ug/L	123000			153000	154000				1	20	

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QUALIFIERS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/14354

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 FORMER CLARK 646
Pace Project No.: 40114429

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40114429001	INFLUENT	EPA 8021	GCV/14376		
40114429003	EFFLUENT	EPA 8021	GCV/14376		
40114429004	MW-32	EPA 8021	GCV/14376		
40114429005	MW-2	EPA 8021	GCV/14376		
40114429006	MW-27	EPA 8021	GCV/14376		
40114429007	MW-13	EPA 8021	GCV/14354		
40114429008	MW-11S	EPA 8021	GCV/14354		
40114429009	RW-3	EPA 8021	GCV/14354		
40114429010	MW-14	EPA 8021	GCV/14376		
40114429011	MW-15	EPA 8021	GCV/14354		
40114429012	MW-16	EPA 8021	GCV/14354		
40114429013	MW-17	EPA 8021	GCV/14354		
40114429014	MW-18	EPA 8021	GCV/14354		
40114429015	MW-19	EPA 8021	GCV/14354		
40114429002	INFLUENT	EPA 3010	MPRP/11865	EPA 6010	ICP/10545

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CHAIN OF CUSTODY

401144 29

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	TriCore Environmental
Branch/Location:	Naperville
Project Contact:	MARCOS CZAKO
Phone:	630 520-9973
Project Number:	100018
Project Name:	Former Clark 646
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	LUST

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	SHAWN RODECK
Invoice To Company:	TriCore Environmental
Invoice To Address:	2368 Corporate Drive Naperville, IL 60563
Invoice To Phone:	630 520-9973

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) — PRESERVATION (CODE)*

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Y/N	Pick Letter	BTEX / MTBE	Total Iron Hardness	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B		N			
001	Influent	5/7/15	11:45	W			3			3-40ml VS	
002	Influent	5/7/15	13:05	W				2		2-250ml pD	
003	Effluent	5/7/15	11:50	W			3			3-40ml VS	
004	MW-32	5/7/15	14:10	GW			3				
005	MW-2	5/7/15	13:10	GW			3				
006	MW-27	5/7/15	14:20	GW			3				
007	MW-13	5/7/15	13:50	GW			3				
008	MW-11S	5/7/15	14:00	GW			3				
009	RW-3	5/7/15	15:00	GW			3				
010	MW-14	5/7/15	14:15	GW			3				
011	MW-15	5/7/15	13:05	GW			3				
012	MW-16	5/7/15	13:25	GW			3				
013	MW-17	5/7/15	12:20	GW			3				

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	5/7/15 1835	Brian Ruszynski	5/7/15 1635
Brian Ruszynski	5/7/15 1700	C Lagiotes	5/7/15
C Lagiotes	5-8-15 1045	Susan Kulpa	5-8-15 1045

PACE Project No.: 40114429
Receipt Temp = ROT °C
Sample Receipt pH: OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TriCore Environmental
Branch/Location:	Naperville, IL
Project Contact:	MARCOS CZAKO
Phone:	630-520-9973
Project Number:	100018
Project Name:	Former Clark 646
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	LUST

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water
B = Biota, DW = Drinking Water
C = Charcoal, GW = Ground Water
O = Oil, SW = Surface Water
S = Soil, WW = Waste Water
SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: BTEX/MTBE	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter				
014	MW-18	5/7/15	1420	GW	N	B	3		3-40mlvB	
015	MW-19	5/7/15	1230	GW	N	B	3			

Quote #:
Mail To Contact:
Mail To Company:
Mail To Address:
Invoice To Contact: SHAWN RODECK
Invoice To Company: TriCore Environmental
Invoice To Address: 2368 Corporate Drive Naperville, IL 60563
Invoice To Phone: 630 520-9973

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	5/7/15 1635	Brian Kuczynski	5/7/15 1635
Brian Kuczynski	5/7/15 1709	CS Logistics	5/7/15
CS Logistics	5-8-15 1045	Susan Kilyo	5-8-15 1045
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40114429
Receipt Temp = ROI °C
Sample Receipt pH (OK) Adjusted
Cooler Custody Seal (Present) / Not Present (Intact) / Not Intact

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO#: 40114429

Client Name: Tri Core

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CSDlogistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR44 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2 /Corr: 2 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 5-8-15
Initials: SCH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☑Yes ☐No ☐N/A	13. ☑HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12)	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed: SCH / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	14. 001 - 1vial; 003 - 1vial 5-8-15 SCH
Trip Blank Present:	☐Yes ☑No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: LW **Date:** 5/8/15

This page can be completed online.

4011/4429

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Former Clark Retail Station #646

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. (initial)
2. Chain-of-custody procedures were followed in the field. (initial)
3. Sample integrity was maintained by proper preservation. (initial)
4. All samples were properly labeled. (initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms (initial)
2. Sample integrity was maintained by proper preservation. (initial)
3. All samples were properly labeled. (initial)

4011442 9

This page can be completed online.

4. Quality assurance/quality control procedures were established and carried out. (initial)

5. Sample holding times were not exceeded. (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Randy Wilson

Title: Senior Technician

Company: TriCore Environmental, LLC

Address: 1800 West Hawthorne Lane, Suite P

City, State, ZIP: West Chicago, Illinois 60185

Phone: (630) 520-9973

Signature: Randy Wilson

Date: 5-7-15

Laboratory Representative

Name: Laurie Wrobel

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1241 Bellevue Street - Suite 9

City, State, ZIP: Green Bay, WI 54302

Phone: (920) 469-2436

Signature: Laurie Wrobel

Date: 5/15/15

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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EMHV

CHAIN OF CUSTODY

40683411

(Please Print Clearly)	
Company Name:	TriCore Environmental LLC
Branch/Location:	West Chicago
Project Contact:	Kim Miller
Phone:	630-520-9973
Project Number:	100018
Project Name:	SHIVAM ENERGY
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Shawn Rodeck
Mail To Company:	TriCore Environmental
Mail To Address:	1800 W Hawthorne Suite P West Chicago, IL
Invoice To Contact:	Shawn Rodeck
Invoice To Company:	SAA
Invoice To Address:	SAA
Invoice To Phone:	630-520-9973

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: pH	Paint Filter	Flash Point	TCLP Lead	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Soil Disposal	10/3/12	11:00	S	N	A	X	X	X	X	3-4oz Amber Jars	3-4ozAA	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	
Transmit Prelim Rush Results by (complete what you want):	
Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Randy Wilson	10/4/12 16:15		10/4/12 16:15
	10/4/12 1100	CS LOGISTIC	10/4/12
	10/5/12 730		
CS Logistics	10/5/12 1005		10/5/12 805

PACE Project No. 40683411

Receipt Temp = 2 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Condition Upon Receipt

Pace Analytical

Client Name: TriCore Project # 4106534L

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None Other

Thermometer Used SK47 Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun.

Cooler Temperature 2°C Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Person examining contents:
Date: 10-5-12
Initials: SLW

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	Initial when completed / Lot # of added preservative
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y / N

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: LW **Date:** 10/8/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

4068341/4068866

This page can be completed online.

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
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I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. (initial)
2. Chain-of-custody procedures were followed in the field. (initial)
3. Sample integrity was maintained by proper preservation. (initial)
4. All samples were properly labeled. (initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms (initial)
2. Sample integrity was maintained by proper preservation. (initial)
3. All samples were properly labeled. (initial)

4068341/4068566

This page can be completed online.

4. Quality assurance/quality control procedures were established and carried out. CKW (initial)

5. Sample holding times were not exceeded. CW (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. CW (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). CW (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Marcos I. Czako

Title: Geologist III

Company: TriCore Environmental, LLC

Address: 2368 Corporate Lane, Suite 116

City, State, ZIP: Naperville, IL 60563

Phone: 630-520-9973

Signature: [signature]

Date: 06/02/15

Laboratory Representative

Name: Laurie Woelfel

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1241 Bellevue Street, Suite 9

City, State, ZIP: Green Bay, WI 54302

Phone: (920) 469-2436

Signature: [signature]

Date: 6/2/15

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(920)469-2436

October 15, 2012

Kim Miller
TriCore Environmental, LLC.
1800 West Hawthorne Lane
Suite P
West Chicago, IL 60185

RE: Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

Dear Kim Miller:
Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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(920)469-2436

CERTIFICATIONS

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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(920)469-2436

SAMPLE SUMMARY

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4068341001	SOIL DISPOSAL	Solid	10/03/12 11:00	10/05/12 10:05

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SAMPLE ANALYTE COUNT

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4068341001	**SOIL DISPOSAL**	EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KMF	1	PASI-G
		EPA 1010	DEY	1	PASI-G
		EPA 9045	KMS	1	PASI-G
		EPA 9095	DDY	1	PASI-G

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ANALYTICAL RESULTS

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

Sample: SOIL DISPOSAL **Lab ID: 4068341001** Collected: 10/03/12 11:00 Received: 10/05/12 10:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1311; 10/09/12 00:00							
Lead	**<0.0075**	mg/L	0.0075	1	10/10/12 11:25	10/10/12 20:32	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.8**	%	0.10	1		10/11/12 10:49		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>210**	deg F		1		10/08/12 14:12		
9045 pH Soil	Analytical Method: EPA 9045							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		10/11/12 22:30		H6
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095							
Free Liquids	**Pass**	no units		1		10/08/12 15:32		

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QUALITY CONTROL DATA

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

QC Batch: MPRP/7596
QC Batch Method: EPA 3010
Associated Lab Samples: 4068341001

Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP

METHOD BLANK: 690173 Matrix: Water
Associated Lab Samples: 4068341001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0075	0.0075	10/10/12 20:10	

LABORATORY CONTROL SAMPLE: 690174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690175 690176

Parameter	Units	4067881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	<0.015	2.5	2.5	2.5	2.6	101	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

QC Batch: PMST/7699
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4068341001

SAMPLE DUPLICATE: 691084

Parameter	Units	4068608002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.7	12.6	1	10	

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QUALITY CONTROL DATA

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

QC Batch: WET/13141
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 4068341001

LABORATORY CONTROL SAMPLE: 688675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		82.0			

SAMPLE DUPLICATE: 689018

Parameter	Units	10207769001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	121	123			

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QUALITY CONTROL DATA

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

QC Batch: WET/13206
QC Batch Method: EPA 9045
Analysis Method: EPA 9045
Analysis Description: 9045 pH
Associated Lab Samples: 4068341001

SAMPLE DUPLICATE: 691861

Parameter	Units	4067881001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	5	H6

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QUALITY CONTROL DATA

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

QC Batch: WET/13148
QC Batch Method: EPA 9095
Analysis Method: EPA 9095
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Associated Lab Samples: 4068341001

SAMPLE DUPLICATE: 688908

Parameter	Units	4068157004 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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QUALIFIERS

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 SHIVAM ENERGY
Pace Project No.: 4068341

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4068341001	SOIL DISPOSAL	EPA 3010	MPRP/7596	EPA 6010	ICP/6636
4068341001	SOIL DISPOSAL	ASTM D2974-87	PMST/7699		
4068341001	SOIL DISPOSAL	EPA 1010	WET/13141		
4068341001	SOIL DISPOSAL	EPA 9045	WET/13206		
4068341001	SOIL DISPOSAL	EPA 9095	WET/13148		

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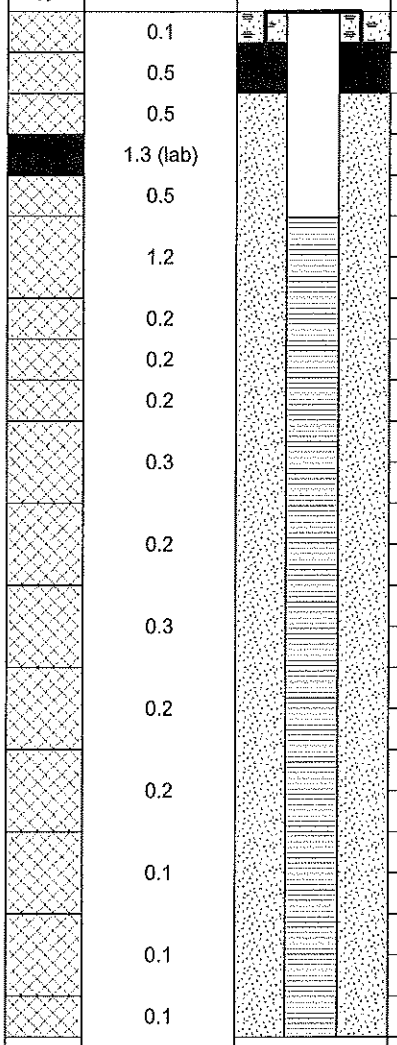
ATTACHMENT B

SOIL BORING LOGS AND RECOVERY WELL COSNTRUCTION DIAGRAMS

RW-1 ('04)

Drill Method:	HSA	Date Drilled:	04-11-05	Logged By:
Boring Dia:	8.25 Inches	DTW While Drilling:	4 Feet	G. Georgiew



Sample	PID (ppm)	Depth (feet bls)	Lithology	Description
	0.1		PT	Grass roots and brown and black clayey TOP SOIL, trace gravel, moist
	0.5			
	0.5		CL	Gray and brown CLAY, trace top soil, soft, moist
	1.3 (lab)		CL	Gray and brown silty CLAY, trace top soil, sand, and gravel, soft, moist
	0.5		CL	Yellowish-brown silty CLAY, saturated
	1.2	5	SP	Gray fine to medium grained SAND, odor, saturated
	0.2		CL	Brown silty CLAY, very hard, moist
	0.2			
	0.2		CL	Gray silty CLAY, hard, saturated
	0.3	10		
	0.2		SP	Gray fine grained SAND, trace silty, saturated
	0.3	15		
	0.2			
	0.2		SM	Gray silty fine grained SAND, saturated
	0.1	20		
	0.1			
	0.1	25		

Completion Notes:

4" sch 40, PVC casing from 0.5' to 5' bls; 4" sch 40, 0.010" slotted PVC screen from 5' to 25' bls. Backfilled with sand from 25' to 2' bls, hydrated bentonite from 2' to 0.75' bls. Capped with concrete. 8" manhole installed flush to surface.

Site:

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018

RW-2

TriCore Environmental, LLC	Drill Method: NA	Date Drilled: 03-13-09	Logged By:
	Boring Dia: NA Inches	DTW While Drilling: NA Feet	P. Worrall

Sample	PID (ppm)	Completion	Depth (feet bls)	Lithology	Description
	NA			PT	Grass and topsoil
					Silty CLAY
	NA			CL	
			5		SAND
	NA			SP	

Completion Notes:

4" sch 40, PVC casing from 2' als to 3' bls; 4" sch 40, 0.010" slotted PVC screen from 3' to 8' bls. Backfilled with sand from 8' to 2' bls, hydrated bentonite from 2' to 0.5' bls, topsoil from 0.5' to 0.0 bls. There is no manhole associated with this well since the well is a stickup well. The well will be cut down and a manhole installed during the DPE system installation activities.

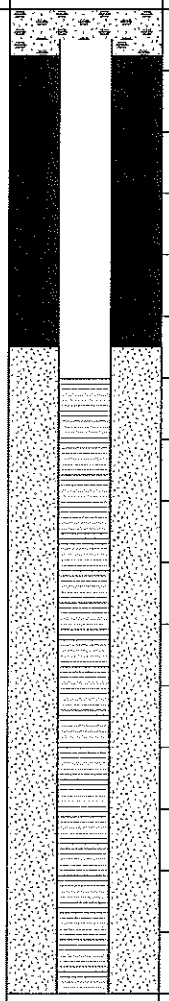
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018 | Page 1

RW-3

TriCore Environmental, LLC

Drill Method:	HSA	Date Drilled:	05/15/09	Logged By:
Boring Dia:	10.25 Inches	DTW While Drilling:	NA Feet	M. Czako

Sample	PID (ppm)	Completion	Depth (feet bls)	Lithology	Description
			5 10 15		No soil samples were collected since the well was installed adjacent to SB-41. See soil boring log SB-41 for lithological description.

Completion Notes:

4" sch 40, PVC casing from 0.5' to 6' bls; 4" sch 40, 0.010" slotted PVC screen from 6' to 16' bls. Backfilled with sand from 16' to 5.5' bls, hydrated bentonite from 5.5' to 0.75' bls. Capped with concrete. 8" manhole installed flush to surface.

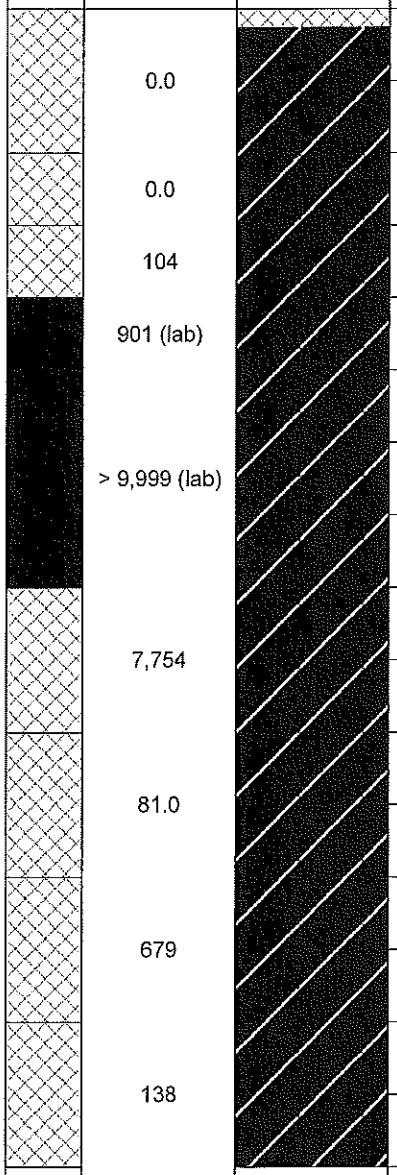
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018

SB-41

TriCore Environmental, LLC

Drill Method:	Direct-Push	Date Drilled:	02/02/09	Logged By:
Boring Dia:	2.125 Inches	DTW While Drilling:	8 Feet	M. Czako



Sample	PID (ppm)	Depth (feet)	Lithology	Description
			PT	Grass and topsoil
	0.0		CL	Brown silty CLAY, some organics, no odor, slightly moist, soft
	0.0		CL	Brown silty CLAY, some organics, trace sand, no odor, slightly moist, soft
	104			
	901 (lab)		CL	Brown silty CLAY, some organics, trace sand and gravel, no odor, slightly moist, soft
		5		
	> 9,999 (lab)		SP	Brown fine grained SAND, slight odor, moist
	7,754		SP	Gray fine grained SAND, odor, saturated @ 8'
		10		
	81.0			Gray fine grained SAND, slight odor, saturated
	679		SP	
	138	15		

Completion Notes:

Backfilled with bentonite from 16' to 0.25' bls. Capped with grass.

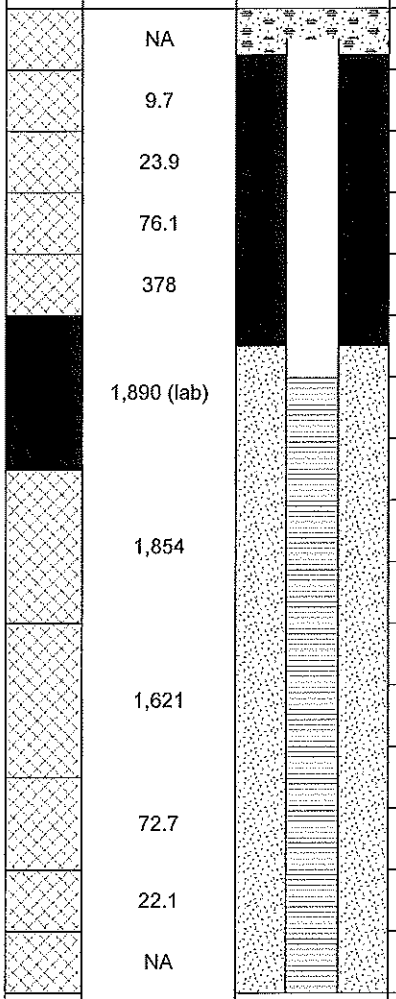
Site:

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018

RW-4

TriCore Environmental, LLC	Drill Method: HSA	Date Drilled: 05/15/09	Logged By:
	Boring Dia: 10.25 Inches	DTW While Drilling: 7.5 Feet	M. Czako



Sample	PID (ppm)	Depth (feet bls)	Lithology	Description
	NA		Concrete	Concrete
			GW	Gravel fill material
	9.7		CL	Brown CLAY, trace gray silt, slight odor, slightly moist
	23.9		CL	Brown CLAY, trace gray silt, trace sand and gravel, slight odor, slightly moist
	76.1		CL	Gray silty brown CLAY, slight odor, slightly moist
	378		CL	no odor
	1,890 (lab)	5	SP	Brown fine grained SAND, odor, moist, saturated @ 7.5'
	1,854		SP	Gray fine grained SAND, odor, black staining from 9.25' to 9.5', saturated
	1,621	10	SP	
	72.7		SP	
	22.1		SP	Gray fine grained SAND, no odor, saturated
	NA	15	SP	

Completion Notes:

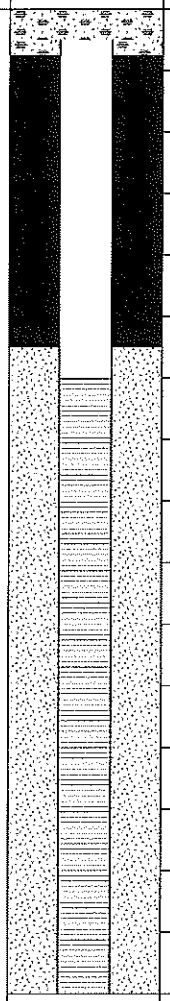
4" sch 40, PVC casing from 0.5' to 6' bls; 4" sch 40, 0.010" slotted PVC screen from 6' to 16' bls. Backfilled with sand from 16' to 5.5' bls, hydrated bentonite from 5.5' to 0.75' bls. Capped with concrete. 8" manhole installed flush to surface.

Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018 | Page 1

RW-5

TriCore Environmental, LLC	Drill Method: HSA	Date Drilled: 05/15/09	Logged By:
	Boring Dia: 10.25 Inches	DTW While Drilling: NA Feet	M. Czako

Sample	PID (ppm)	Completion	Depth (feet bls)	Lithology	Description
			5 10 15		No soil samples were collected since the well was installed adjacent to SB-44. See soil boring log SB-44 for lithological description.

Completion Notes:

4" sch 40, PVC casing from 0.5' to 6' bls; 4" sch 40, 0.010" slotted PVC screen from 6' to 16' bls. Backfilled with sand from 16' to 5.5' bls, hydrated bentonite from 5.5' to 0.75' bls. Capped with concrete. 8" manhole installed flush to surface.

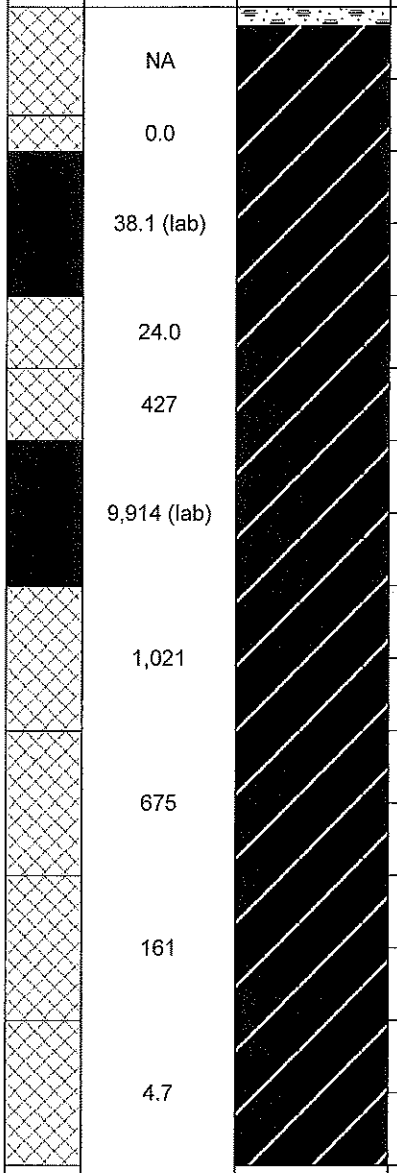
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018 | Page 1

SB-44

TriCore Environmental, LLC

Drill Method:	Direct-Push	Date Drilled:	02/02/09	Logged By:
Boring Dia:	2.125 Inches	DTW While Drilling:	8 Feet	M. Czako



Sample	PID (ppm)	Depth (feet)	Lithology	Description
			Concrete	Concrete
	NA		GW	Gravel fill material
	0.0		CL	Brown silty CLAY, trace sand and gravel, no odor, slightly moist
	38.1 (lab)		CL	Brown silty CLAY, little gray silt, trace sand and gravel, semi-stiff, slight odor, slightly moist
	24.0	5		
	427			
	9,914 (lab)		SP	Brown fine grained SAND, odor, moist
	1,021		SP	Gray fine grained SAND, odor, saturated @ 8'
	675	10		
	161			
	4.7	15	SP	Gray fine grained SAND, no odor, saturated

Completion Notes:

Backfilled with bentonite from 16' to 0.25' bls. Capped with concrete.

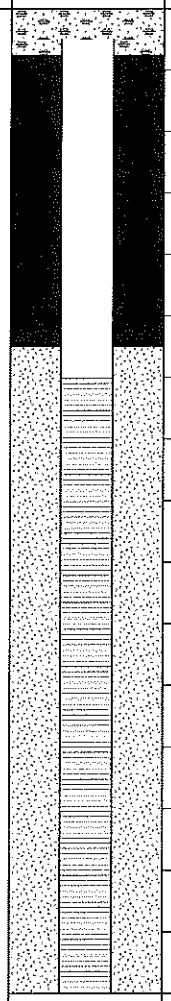
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018

RW-6

TriCore Environmental, LLC

Drill Method:	HSA	Date Drilled:	05/15/09	Logged By:
Boring Dia:	10.25 Inches	DTW While Drilling:	NA Feet	M. Czako

Sample	PID (ppm)	Completion	Depth (feet bls)	Lithology	Description
			5 10 15		No soil samples were collected since the well was installed adjacent to SB-45. See soil boring log SB-45 for lithological description.

Completion Notes:

4" sch 40, PVC casing from 0.5' to 6' bls; 4" sch 40, 0.010" slotted PVC screen from 6' to 16' bls. Backfilled with sand from 16' to 5.5' bls, hydrated bentonite from 5.5' to 0.75' bls. Capped with concrete. 8" manhole installed flush to surface.

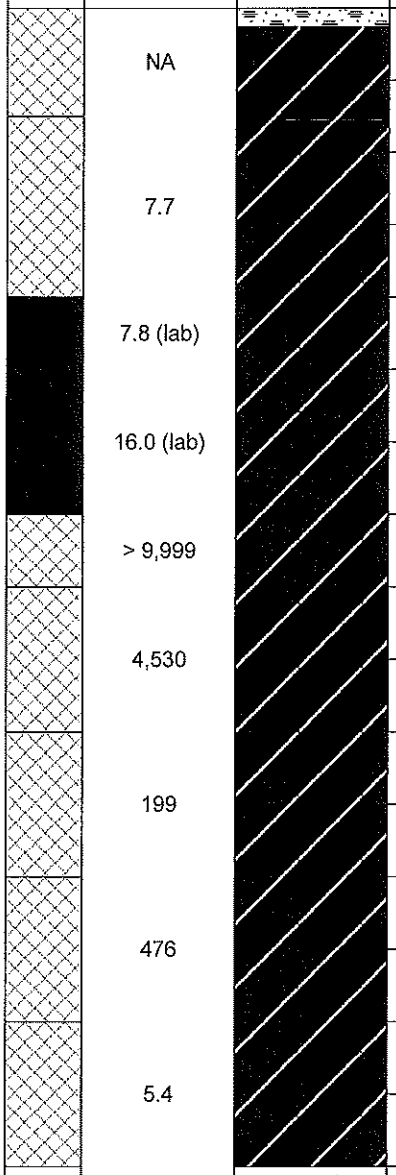
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018

SB-45

TriCore Environmental, LLC

Drill Method:	Direct-Push	Date Drilled:	02/02/09	Logged By:
Boring Dia:	2.125 Inches	DTW While Drilling:	7 Feet	M. Czako



Sample	PID (ppm)	Depth (feet)	Lithology	Description
			Concrete	Concrete
	NA		GW	Gravel fill material
	7.7		CL	Brown silty CLAY, trace silt, sand and gravel, stiff, no odor, slightly moist
	7.8 (lab)	5		
	16.0 (lab)			
	> 9,999		CL	Grayish-brown silty CLAY, trace silt, sand and gravel, stiff, no odor, saturated @ 7'
			SP	Brown fine grained SAND, odor, saturated
	4,530			Gray fine grained SAND, odor, saturated
		10		
	199		SP	
	476			
				Gray fine grained SAND, no odor, saturated
	5.4	15	SP	

Completion Notes:

Backfilled with bentonite from 16' to 0.25' bls. Capped with concrete.

Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018 | Page 1

RW-7

Drill Method: HSA	Date Drilled: 10/22/12	Logged By:
Boring Dia: 11.875 Inches	DTW While Drilling: 8.5 Feet	KM and MC

Sample	PID (ppm)	Completion	Depth (feet bls)	Lithology	Description
	0.0			PT	Grass and black topsoil, no odor, dry
	0.0			CL	Brown and gray silty CLAY, firm, no odor, dry
	1.6 (lab)		5	CL	Brown silty CLAY, med plasticity, dry
	1,640			SP	Gray SAND, strong odor, saturated
	23.0		10		
	NA		15		Blind drilled during well installation

Completion Notes:

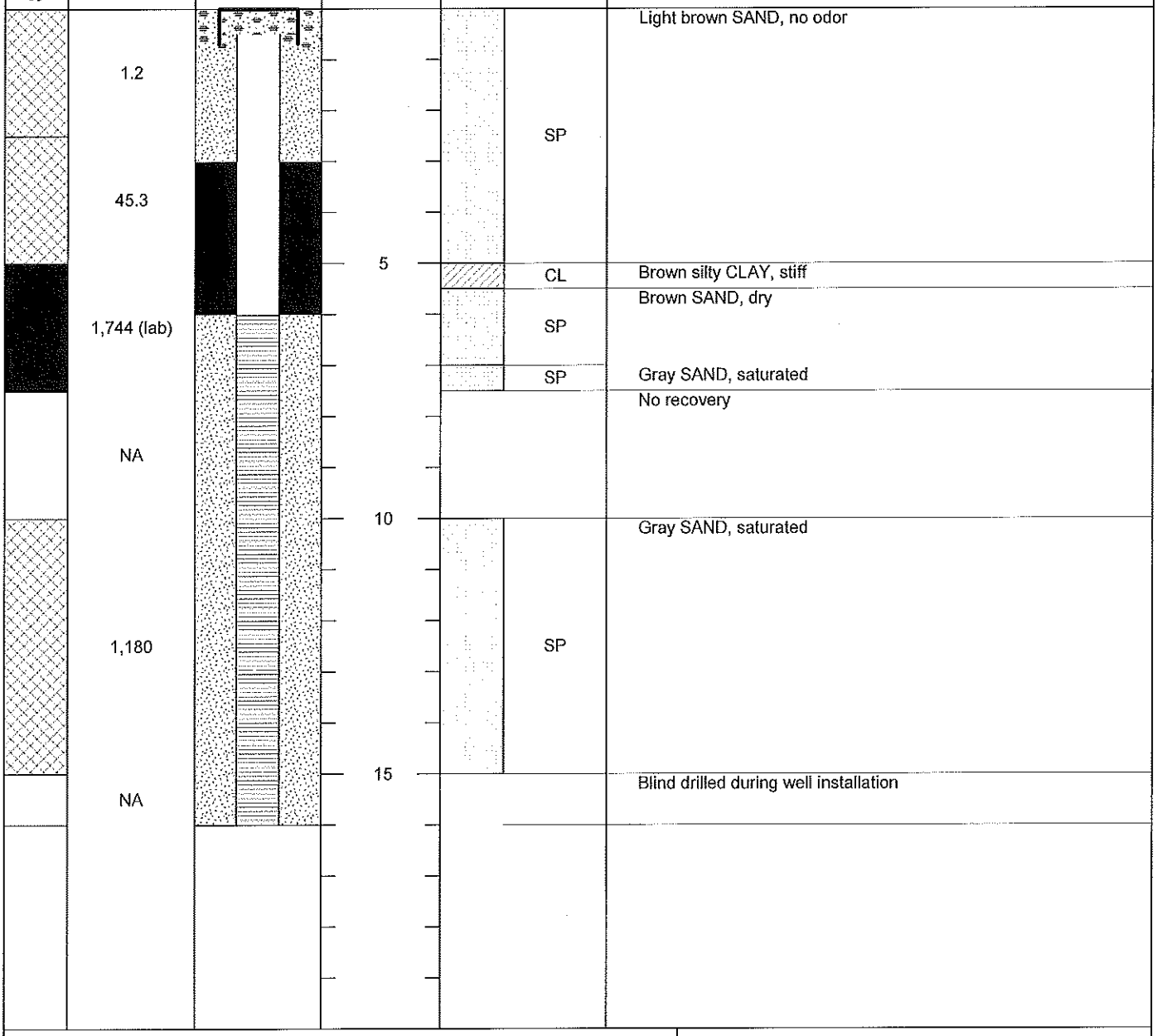
4-in. Sch 40, PVC casing from 0.5 to 6 ft. bls; 4-in. Sch 40, 0.010-in. slotted PVC screen from 6 to 16 ft. bls. Backfilled with sand from 16 to 6 ft. bls, hydrated bentonite from 6 to 3 ft. bls., sand from 3 to 0.75 ft. bls., and concrete from 0.75 ft. bls. to ground surface. 24-in. manhole installed in concrete flush to surface.

Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018 | Page 1

RW-8

Drill Method: HSA	Date Drilled: 10/22/12	Logged By:
Boring Dia: 11.875 Inches	DTW While Drilling: 7 Feet	KM and MC



Completion Notes:

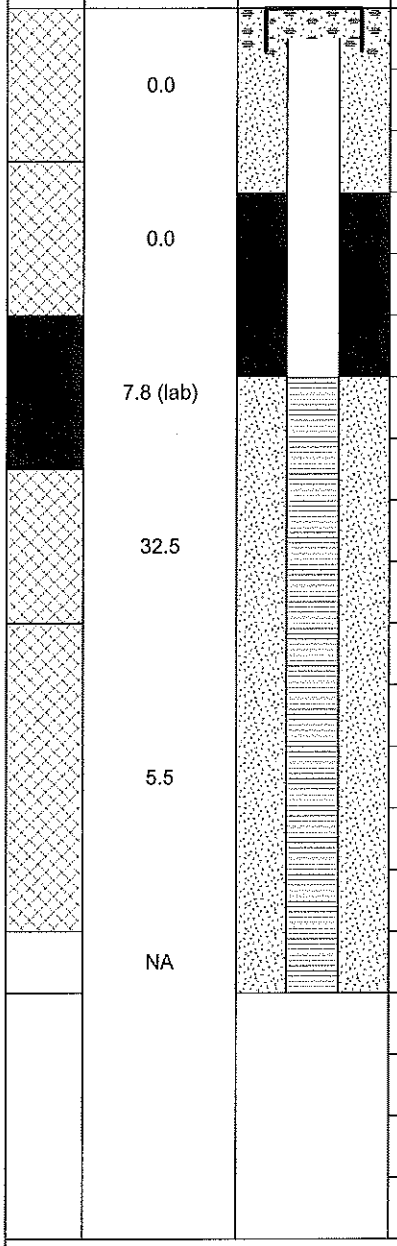
4-in. Sch 40, PVC casing from 0.5 to 6 ft. bls; 4-in. Sch 40, 0.010-in. slotted PVC screen from 6 to 16 ft. bls. Backfilled with sand from 16 to 6 ft. bls, hydrated bentonite from 6 to 3 ft. bls., sand from 3 to 0.75 ft. bls., and concrete from 0.75 ft. bls. to ground surface. 24-in. manhole installed in concrete flush to surface.

Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018 | Page 1

RW-9

Drill Method: HSA	Date Drilled: 10/22/12	Logged By:
Boring Dia: 11.875 Inches	DTW While Drilling: 7 Feet	KM and MC



Sample	PID (ppm)	Depth (feet bls)	Lithology	Description
	0.0		PT	Grass and black topsoil, no odor, dry
	0.0		SC	Light brown CLAY and SAND, some gravel
	7.8 (lab)	5	CL	Brown silty CLAY, trace sand and gravel, hard, dry
	32.5		SP	Gray SAND, slight odor, becoming saturated at 7 ft.
	5.5	10	SP	Gray SAND, slight odor, dry to moist
	NA	15		Blind drilled during well installation

Completion Notes:

4-in. Sch 40, PVC casing from 0.5 to 6 ft. bls; 4-in. Sch 40, 0.010-in. slotted PVC screen from 6 to 16 ft. bls. Backfilled with sand from 16 to 6 ft. bls, hydrated bentonite from 6 to 3 ft. bls., sand from 3 to 0.75 ft. bls., and concrete from 0.75 ft. bls. to ground surface. 24-in. manhole installed in concrete flush to surface.

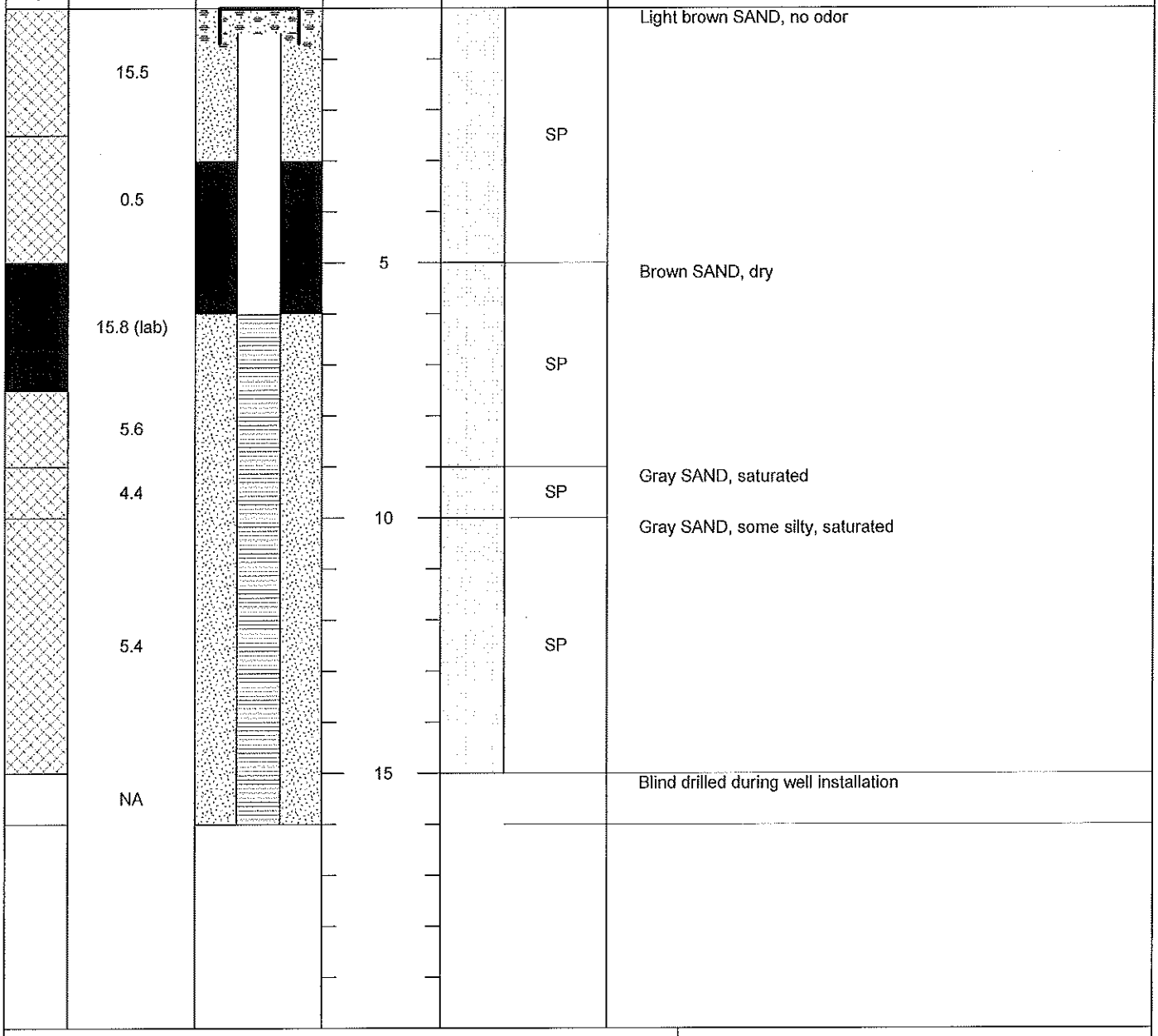
Site:

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

Project No.: 100018

RW-10

Drill Method: HSA	Date Drilled: 10/22/12	Logged By:
Boring Dia: 11.875 Inches	DTW While Drilling: 9 Feet	KM and MC



Completion Notes:

4-in. Sch 40, PVC casing from 0.5 to 6 ft. bls; 4-in. Sch 40, 0.010-in. slotted PVC screen from 6 to 16 ft. bls. Backfilled with sand from 16 to 6 ft. bls, hydrated bentonite from 6 to 3 ft. bls., sand from 3 to 0.75 ft. bls., and concrete from 0.75 ft. bls. to ground surface. 24-in. manhole installed in concrete flush to surface.

Site:

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 892744 and 903199
LPC No.: 0971855024

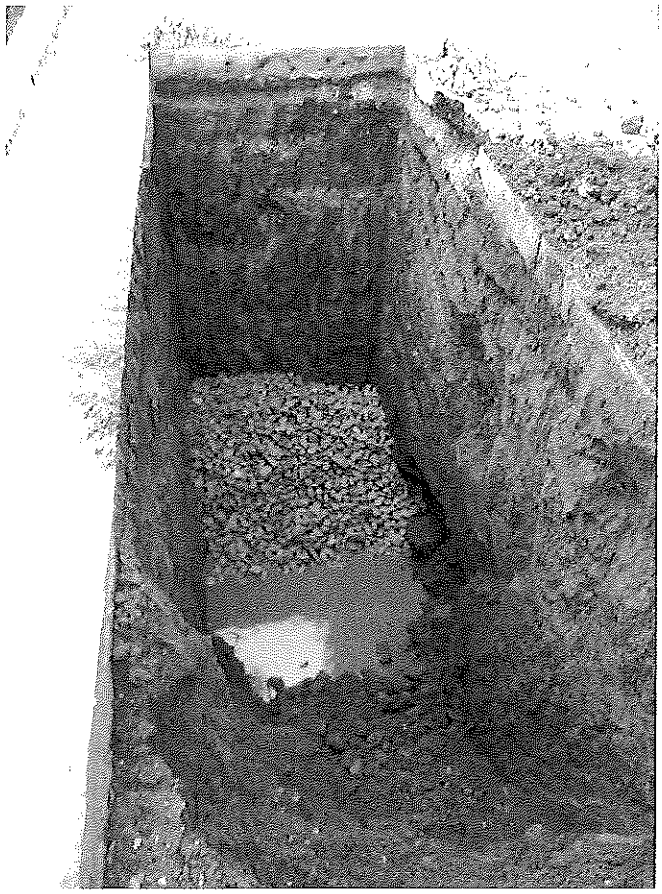
Project No.: 100018

ATTACHMENT C

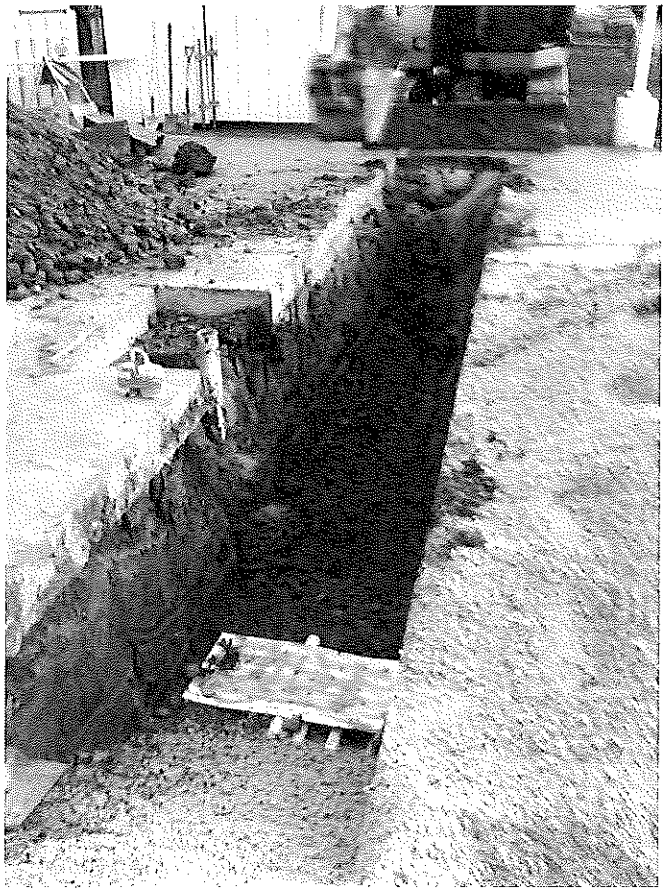
PHOTOGRAPHS



Photograph #1. Excavating the infiltration gallery. Photo taken looking south.



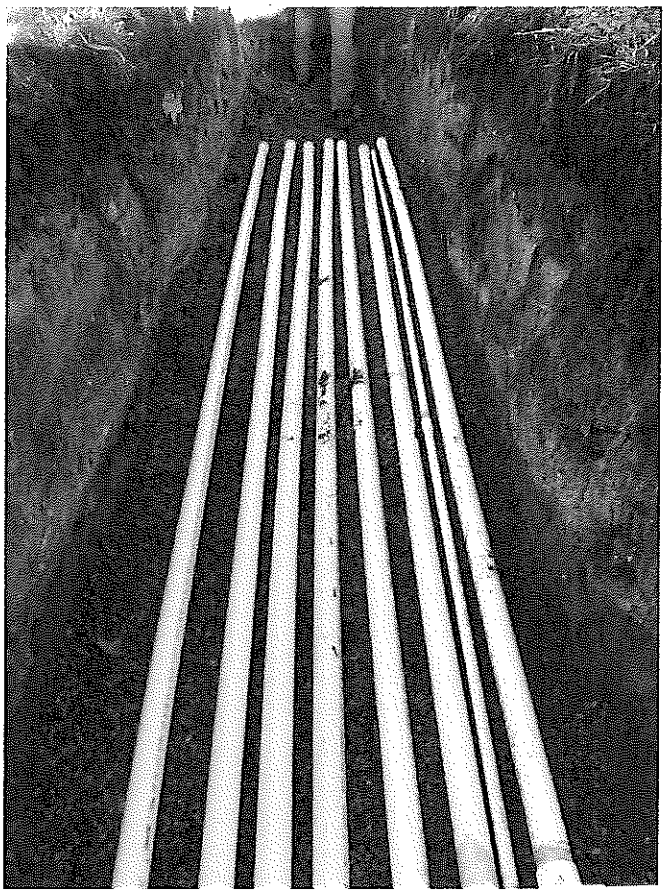
Photograph #2. Beginning to backfill the infiltration gallery. Photo taken looking east.



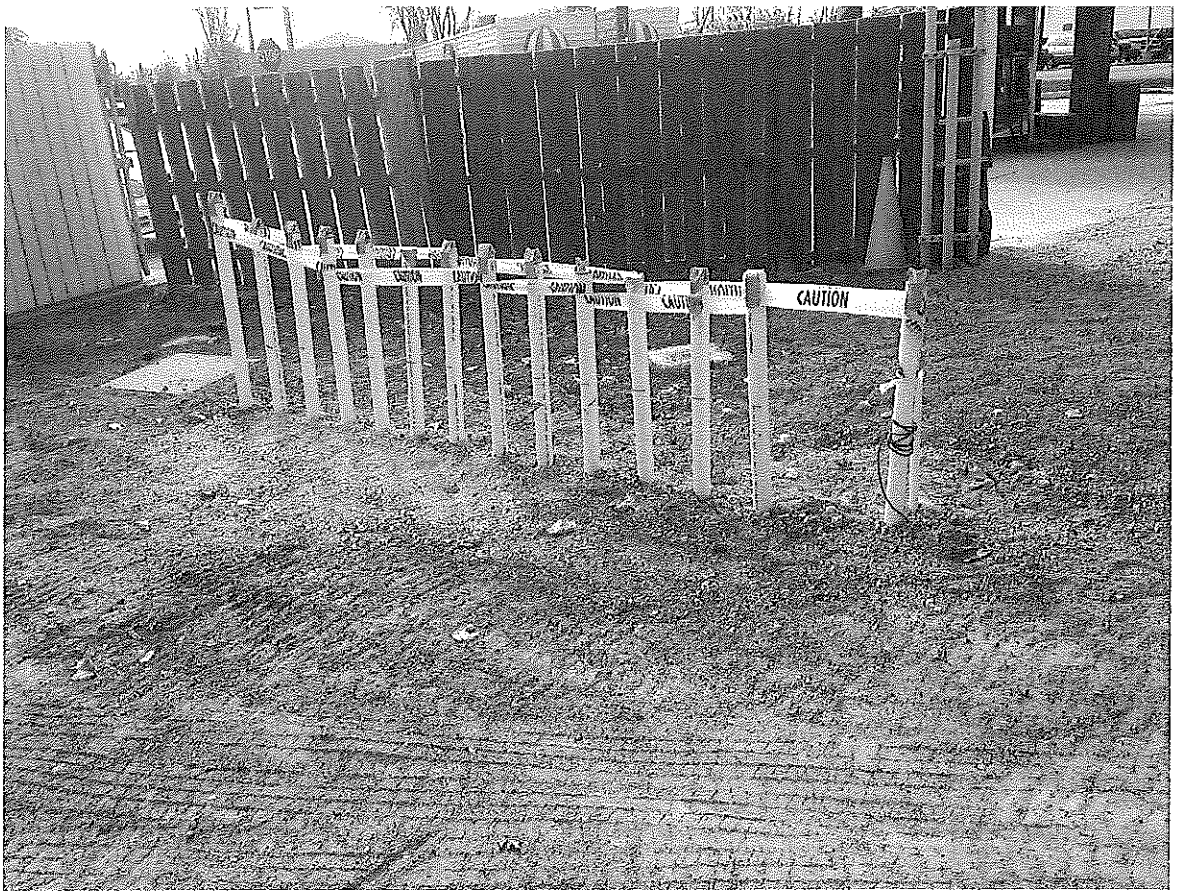
Photograph #3. Trenching and piping installation. Photo taken looking north.



Photograph #4. Backfilled trenches. Photo taken looking south.



Photograph #5. Remediation system piping installation. Photo taken looking west.



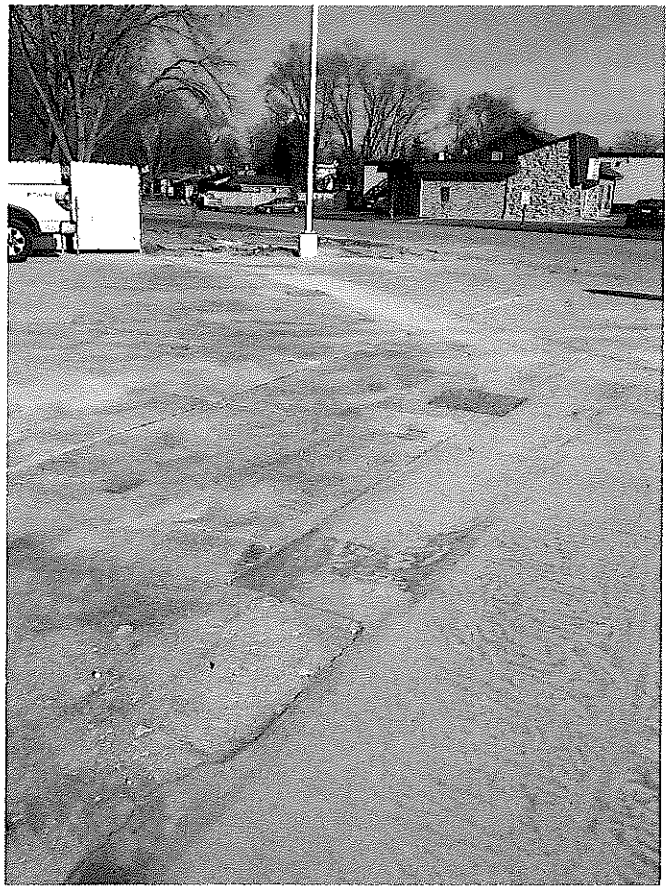
Photograph #6. Remediation system piping stubbed up for connection to the remediation system trailer. Photo taken looking south.



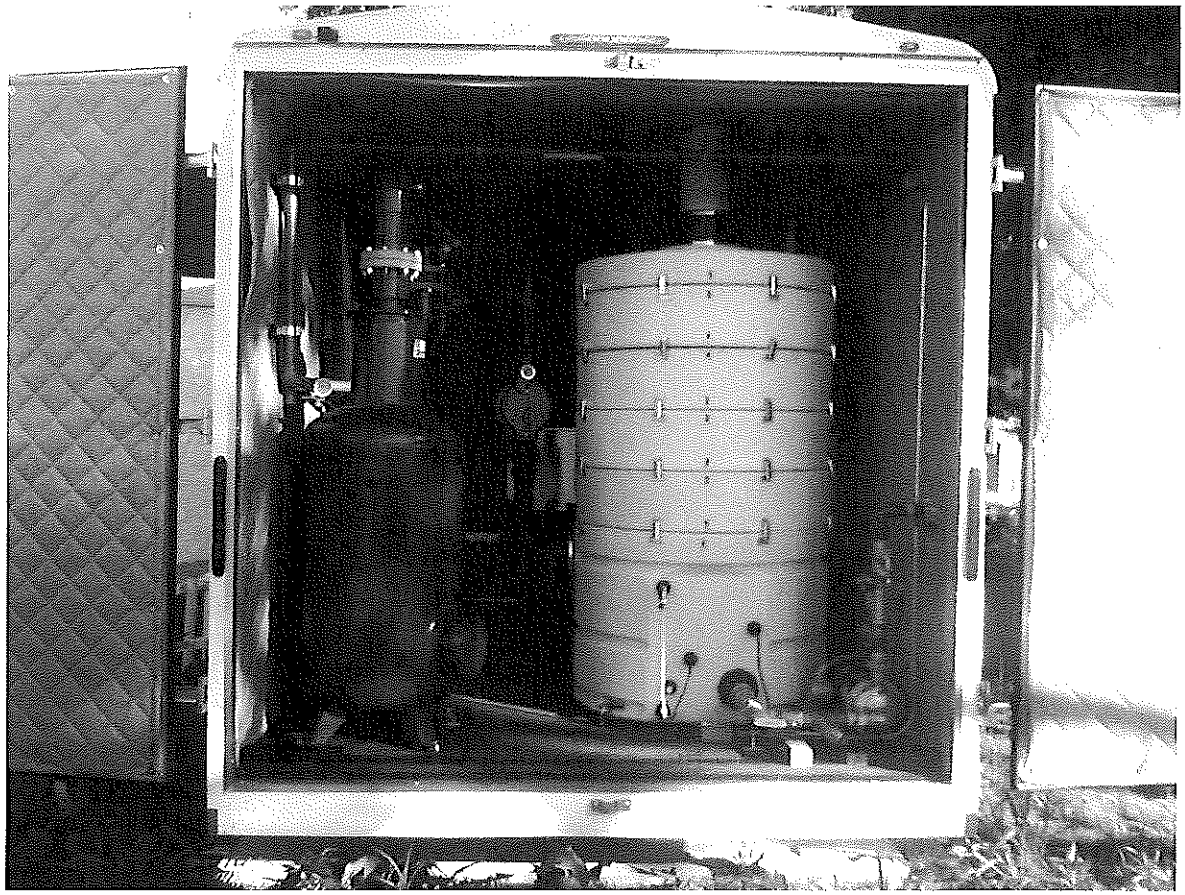
Photograph #7. Backfilled trenches. Photo taken looking east.



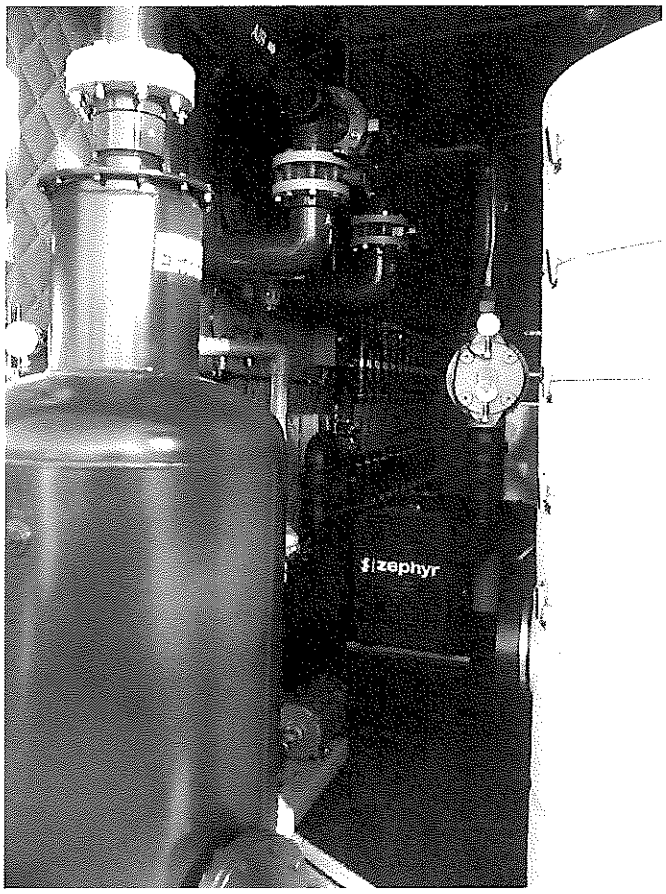
Photograph #8. Backfilled trenches. Photo taken looking northwest.



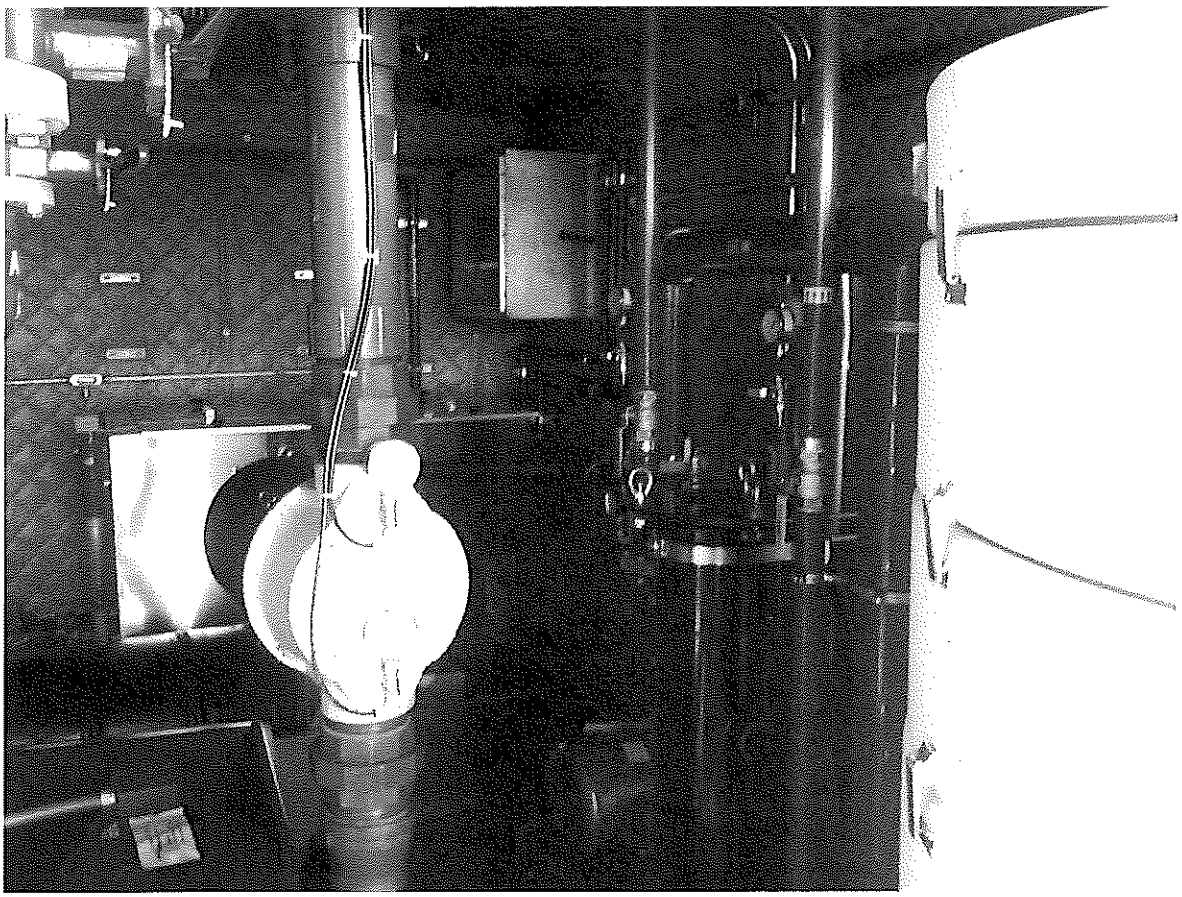
Photograph #9. Trenches resurfaced with concrete. Photo taken looking northeast.



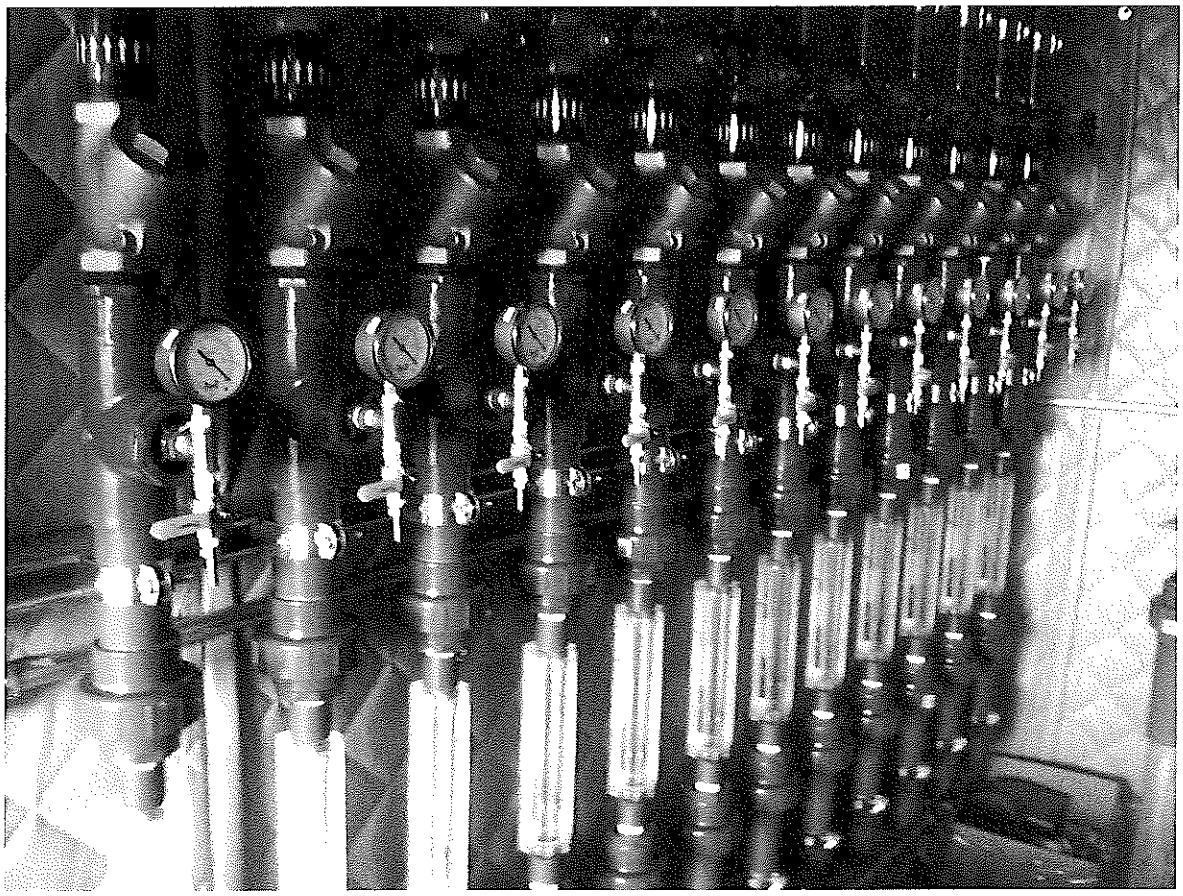
Photograph #10. Remediation system trailer. Photo taken looking west.



Photograph #11. Knock out tank and vacuum pump. Photo taken looking west.



Photograph #12. Air stripper, vacuum pump pre-filter, bag filter, and oil water separator. Photo taken looking west.



Photograph #13. Recovery well manifold. Photo taken looking southwest.

ATTACHMENT D

GROUNDWATER ANALYTICAL LABORATROY REPORTS AND CERTIFICATIONS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

February 27, 2013

Marcos Czako
TriCore Environmental, LLC.
1800 West Hawthorne Lane
Suite P
West Chicago, IL 60185

RE: Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Dear Marcos Czako:
Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel

laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4074249001	RW-1	Water	02/21/13 12:15	02/22/13 09:50
4074249002	RW-1 (04')	Water	02/21/13 13:00	02/22/13 09:50
4074249003	RW-3	Water	02/21/13 10:45	02/22/13 09:50
4074249004	RW-4	Water	02/21/13 10:30	02/22/13 09:50
4074249005	RW-5	Water	02/21/13 11:00	02/22/13 09:50
4074249006	RW-6	Water	02/21/13 11:30	02/22/13 09:50
4074249007	RW-7	Water	02/21/13 12:30	02/22/13 09:50
4074249008	RW-8	Water	02/21/13 11:45	02/22/13 09:50
4074249009	RW-9	Water	02/21/13 12:45	02/22/13 09:50
4074249010	RW-10	Water	02/21/13 11:15	02/22/13 09:50
4074249011	MW-29	Water	02/21/13 10:15	02/22/13 09:50

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SAMPLE ANALYTE COUNT

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4074249001	RW-1	EPA 8021	MRS	6	PASI-G
4074249002	RW-1 (04')	EPA 8021	MRS	6	PASI-G
4074249003	RW-3	EPA 8021	MRS	6	PASI-G
4074249004	RW-4	EPA 8021	LCF	6	PASI-G
4074249005	RW-5	EPA 8021	MRS	6	PASI-G
4074249006	RW-6	EPA 8021	MRS	6	PASI-G
4074249007	RW-7	EPA 8021	MRS	6	PASI-G
4074249008	RW-8	EPA 8021	MRS	6	PASI-G
4074249009	RW-9	EPA 8021	MRS	6	PASI-G
4074249010	RW-10	EPA 8021	MRS	6	PASI-G
4074249011	MW-29	EPA 8021	MRS	6	PASI-G

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-1 **Lab ID: 4074249001** Collected: 02/21/13 12:15 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**1520**	ug/L	5.0	1.9	5		02/25/13 14:35	71-43-2	
Ethylbenzene	**39.9**	ug/L	5.0	2.1	5		02/25/13 14:35	100-41-4	
Methyl-tert-butyl ether	**<1.9**	ug/L	5.0	1.9	5		02/25/13 14:35	1634-04-4	
Toluene	**245**	ug/L	5.0	2.1	5		02/25/13 14:35	108-88-3	
Xylene (Total)	**223**	ug/L	15.0	6.3	5		02/25/13 14:35	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	90	%.	80-120		5		02/25/13 14:35	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-1 (04') **Lab ID: 4074249002** Collected: 02/21/13 13:00 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**6.4**	ug/L	1.0	0.39	1		02/25/13 11:30	71-43-2	
Ethylbenzene	**7.6**	ug/L	1.0	0.41	1		02/25/13 11:30	100-41-4	
Methyl-tert-butyl ether	**<0.38**	ug/L	1.0	0.38	1		02/25/13 11:30	1634-04-4	
Toluene	**25.8**	ug/L	1.0	0.42	1		02/25/13 11:30	108-88-3	
Xylene (Total)	**59.8**	ug/L	3.0	1.3	1		02/25/13 11:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%.	80-120		1		02/25/13 11:30	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-3 **Lab ID: 4074249003** Collected: 02/21/13 10:45 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**4930**	ug/L	50.0	19.4	50		02/25/13 15:01	71-43-2	
Ethylbenzene	**1590**	ug/L	50.0	20.7	50		02/25/13 15:01	100-41-4	
Methyl-tert-butyl ether	**<19.0**	ug/L	50.0	19.0	50		02/25/13 15:01	1634-04-4	
Toluene	**9090**	ug/L	50.0	20.8	50		02/25/13 15:01	108-88-3	
Xylene (Total)	**10600**	ug/L	150	62.6	50		02/25/13 15:01	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%.	80-120		50		02/25/13 15:01	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-4 **Lab ID: 4074249004** Collected: 02/21/13 10:30 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**1250**	ug/L	20.0	7.8	20		02/26/13 09:05	71-43-2	
Ethylbenzene	**481**	ug/L	20.0	8.3	20		02/26/13 09:05	100-41-4	
Methyl-tert-butyl ether	**<7.6**	ug/L	20.0	7.6	20		02/26/13 09:05	1634-04-4	
Toluene	**1930**	ug/L	20.0	8.3	20		02/26/13 09:05	108-88-3	
Xylene (Total)	**5240**	ug/L	60.0	25.0	20		02/26/13 09:05	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%.	80-120		20		02/26/13 09:05	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-5 **Lab ID: 4074249005** Collected: 02/21/13 11:00 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**3300**	ug/L	20.0	7.8	20		02/25/13 13:18	71-43-2	
Ethylbenzene	**583**	ug/L	20.0	8.3	20		02/25/13 13:18	100-41-4	
Methyl-tert-butyl ether	**8.1J**	ug/L	20.0	7.6	20		02/25/13 13:18	1634-04-4	
Toluene	**513**	ug/L	20.0	8.3	20		02/25/13 13:18	108-88-3	
Xylene (Total)	**1760**	ug/L	60.0	25.0	20		02/25/13 13:18	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	80-120		20		02/25/13 13:18	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-6 **Lab ID: 4074249006** Collected: 02/21/13 11:30 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**281**	ug/L	10.0	3.9	10		02/25/13 15:53	71-43-2	
Ethylbenzene	**392**	ug/L	10.0	4.1	10		02/25/13 15:53	100-41-4	
Methyl-tert-butyl ether	**5.1J**	ug/L	10.0	3.8	10		02/25/13 15:53	1634-04-4	
Toluene	**1130**	ug/L	10.0	4.2	10		02/25/13 15:53	108-88-3	
Xylene (Total)	**2700**	ug/L	30.0	12.5	10		02/25/13 15:53	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	80-120		10		02/25/13 15:53	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-7 **Lab ID: 4074249007** Collected: 02/21/13 12:30 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**620**	ug/L	4.0	1.6	4		02/25/13 16:19	71-43-2	
Ethylbenzene	**211**	ug/L	4.0	1.7	4		02/25/13 16:19	100-41-4	
Methyl-tert-butyl ether	**3.7J**	ug/L	4.0	1.5	4		02/25/13 16:19	1634-04-4	
Toluene	**465**	ug/L	4.0	1.7	4		02/25/13 16:19	108-88-3	
Xylene (Total)	**754**	ug/L	12.0	5.0	4		02/25/13 16:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	80-120		4		02/25/13 16:19	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-8 **Lab ID: 4074249008** Collected: 02/21/13 11:45 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**4140**	ug/L	50.0	19.4	50		02/25/13 16:45	71-43-2	
Ethylbenzene	**1300**	ug/L	50.0	20.7	50		02/25/13 16:45	100-41-4	
Methyl-tert-butyl ether	**<19.0**	ug/L	50.0	19.0	50		02/25/13 16:45	1634-04-4	
Toluene	**8700**	ug/L	50.0	20.8	50		02/25/13 16:45	108-88-3	
Xylene (Total)	**7670**	ug/L	150	62.6	50		02/25/13 16:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%.	80-120		50		02/25/13 16:45	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-9 **Lab ID: 4074249009** Collected: 02/21/13 12:45 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**391**	ug/L	2.5	0.97	2.5		02/25/13 17:10	71-43-2	
Ethylbenzene	**12.3**	ug/L	2.5	1.0	2.5		02/25/13 17:10	100-41-4	
Methyl-tert-butyl ether	**3.1**	ug/L	2.5	0.95	2.5		02/25/13 17:10	1634-04-4	
Toluene	**13.0**	ug/L	2.5	1.0	2.5		02/25/13 17:10	108-88-3	
Xylene (Total)	**5.0J**	ug/L	7.5	3.1	2.5		02/25/13 17:10	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	91	%.	80-120		2.5		02/25/13 17:10	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: RW-10 **Lab ID: 4074249010** Collected: 02/21/13 11:15 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**0.43J**	ug/L	1.0	0.39	1		02/25/13 12:00	71-43-2	
Ethylbenzene	**<0.41**	ug/L	1.0	0.41	1		02/25/13 12:00	100-41-4	
Methyl-tert-butyl ether	**2.8**	ug/L	1.0	0.38	1		02/25/13 12:00	1634-04-4	
Toluene	**<0.42**	ug/L	1.0	0.42	1		02/25/13 12:00	108-88-3	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		02/25/13 12:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	91	%.	80-120		1		02/25/13 12:00	98-08-8	

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Sample: MW-29 **Lab ID: 4074249011** Collected: 02/21/13 10:15 Received: 02/22/13 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Short List	Analytical Method: EPA 8021								
Benzene	**9700**	ug/L	125	48.6	125		02/25/13 17:36	71-43-2	
Ethylbenzene	**2680**	ug/L	125	51.8	125		02/25/13 17:36	100-41-4	
Methyl-tert-butyl ether	**<47.6**	ug/L	125	47.6	125		02/25/13 17:36	1634-04-4	
Toluene	**19500**	ug/L	125	52.0	125		02/25/13 17:36	108-88-3	
Xylene (Total)	**19600**	ug/L	375	156	125		02/25/13 17:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%.	80-120		125		02/25/13 17:36	98-08-8	

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

QC Batch: GCV/9838 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: 8021 GCV BTEX
Associated Lab Samples: 4074249001, 4074249002, 4074249003, 4074249004, 4074249005, 4074249006, 4074249007, 4074249008, 4074249009, 4074249010, 4074249011

METHOD BLANK: 753390 Matrix: Water
Associated Lab Samples: 4074249001, 4074249002, 4074249003, 4074249004, 4074249005, 4074249006, 4074249007, 4074249008, 4074249009, 4074249010, 4074249011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.39	1.0	02/25/13 10:13	
Ethylbenzene	ug/L	<0.41	1.0	02/25/13 10:13	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	02/25/13 10:13	
Toluene	ug/L	<0.42	1.0	02/25/13 10:13	
Xylene (Total)	ug/L	<1.3	3.0	02/25/13 10:13	
a,a,a-Trifluorotoluene (S)	%.	92	80-120	02/25/13 10:13	

LABORATORY CONTROL SAMPLE & LCSD: 753391 753392

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	21.2	20.7	106	104	80-120	2	20	
Ethylbenzene	ug/L	20	19.5	18.8	97	94	80-120	4	20	
Methyl-tert-butyl ether	ug/L	20	20.1	20.5	101	103	80-120	2	20	
Toluene	ug/L	20	18.9	18.5	95	92	80-120	2	20	
Xylene (Total)	ug/L	60	58.5	56.7	97	95	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%.				95	94	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 753509 753510

Parameter	Units	4074249005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	3300	400	400	3860	3730	139	108	33-173	3	20	
Ethylbenzene	ug/L	583	400	400	992	1000	102	105	49-158	1	20	
Methyl-tert-butyl ether	ug/L	8.1J	400	400	415	465	102	114	80-130	11	20	
Toluene	ug/L	513	400	400	915	929	100	104	79-132	1	20	
Xylene (Total)	ug/L	1760	1200	1200	3010	3030	104	106	42-173	1	20	
a,a,a-Trifluorotoluene (S)	%.						99	96	80-120			

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QUALIFIERS

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 FORMER CLARK #646
Pace Project No.: 4074249

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4074249001	RW-1	EPA 8021	GCV/9838		
4074249002	RW-1 (04')	EPA 8021	GCV/9838		
4074249003	RW-3	EPA 8021	GCV/9838		
4074249004	RW-4	EPA 8021	GCV/9838		
4074249005	RW-5	EPA 8021	GCV/9838		
4074249006	RW-6	EPA 8021	GCV/9838		
4074249007	RW-7	EPA 8021	GCV/9838		
4074249008	RW-8	EPA 8021	GCV/9838		
4074249009	RW-9	EPA 8021	GCV/9838		
4074249010	RW-10	EPA 8021	GCV/9838		
4074249011	MW-29	EPA 8021	GCV/9838		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

JNF 4074249

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TriCore Environmental, LLC	Report To: Marcos I. Czakó	Attention: Shawn Rodeck
Address: 1800 W. Hawthorne Lane, Suite P	Copy To:	Company Name: TriCore Environmental, LLC
West Chicago, Illinois 60185		Address: 1800 W. Hawthorne Lane, Suite P, West Chicago, IL 60185
Email To: marcos.czako@tricoreweb.com	Purchase Order No.: 100018	Pace Quote Reference:
Phone: 630-520-9973 Fax 630-520-9976	Project Name: Former Clark #646	Pace Project Manager:
Requested Due Date/TAT: standard	Project Number: 100018	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER
SITE LOCATION: ☐ GA ☒ IL ☑ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: BTEX AND MTBE	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	RW-1 001	WT	G			2-21-13	12:15											N		N	3-40ml v
2	RW-1 ('04) 002	WT	G			2-21-13	13:00											N		N	
3	RW-2	WT	G															N		N	
4	RW-3 003	WT	G			2-21-13	10:45											N		N	
5	RW-4 004	WT	G			2-21-13	10:30											N		N	
6	RW-5 005	WT	G			2-21-13	11:00											N		N	
7	RW-6 006	WT	G			2-21-13	11:30											N		N	
8	RW-7 007	WT	G			2-21-13	12:30											N		N	
9	RW-8 008	WT	G			2-21-13	11:45											N		N	
10	RW-9 009	WT	G			2-21-13	12:45											N		N	
11	RW-10 010	WT	G			2-21-13	11:15											N		N	
12	MW-29 011	WT	G			2-21-13	10:15											N		N	

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Randy Wilson TriCore	2-21-13	15:13		2/21/13	15:13
	2/21/13	1700		2/21/13	
FedEx	2/22/13	0950		2/22/13	0950

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
2.5	(Y) N	(Y) N	(Y) N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Randy Wilson

SIGNATURE of SAMPLER: Randy Wilson DATE Signed (MM/DD/YY): 02/21/2013

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Sample Condition Upon Receipt

Client Name: Tricore Project # 4074249

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None Other

Thermometer Used SR-5

Cooler Temperature 2.5

Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun.

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Optional
Proj. Due Date:
Proj. Name:

Person examining contents:
Date: 2/22/13
Initials: BKJ

Temp should be above freezing to 6°C for all sample except Biota.
Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: LW **Date:** 2/22/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

This page can be completed online.

4074249

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Former Clark Retail Station #646

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. (initial)
2. Chain-of-custody procedures were followed in the field. (initial)
3. Sample integrity was maintained by proper preservation. (initial)
4. All samples were properly labeled. (initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms (initial)
2. Sample integrity was maintained by proper preservation. (initial)
3. All samples were properly labeled. (initial)

This page can be completed online.

4. Quality assurance/quality control procedures were established and carried out. LW (initial)

5. Sample holding times were not exceeded. LW (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. LW (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). LW (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Randy Wilson

Title: Senior Technician

Company: TriCore Environmental, LLC

Address: 1800 West Hawthorne Lane, Suite P

City, State, ZIP: West Chicago, Illinois 60185

Phone: (630) 520-9973

Signature: Randy Wilson

Date: 2-21-13

Laboratory Representative

Name: Laurie Woelfel

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1241 Bellevue Street - Suite 9

City, State, ZIP: Green Bay, WI 54302

Phone: (920) 469-2436

Signature: Laurie Woelfel

Date: 2/27/13

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www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 05, 2015

Marcos Czako
TriCore Environmental, LLC.
2368 Corporate Lane
Suite 116
Naperville, IL 60563

RE: Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

Dear Marcos Czako:
Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laurie Woelfel

Laurie Woelfel
laurie.woelfel@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40115869001	INFLUENT	Water	06/01/15 13:20	06/03/15 09:35
40115869002	EFFLUENT	Water	06/01/15 13:30	06/03/15 09:35

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SAMPLE ANALYTE COUNT

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40115869001	INFLUENT	EPA 8260	LAP	8	PASI-G
40115869002	EFFLUENT	EPA 8260	LAP	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

Sample: INFLUENT **Lab ID: 40115869001** Collected: 06/01/15 13:20 Received: 06/03/15 09:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**34.5**	ug/L	2.0	1.0	2		06/05/15 07:28	71-43-2	
Ethylbenzene	**22.8**	ug/L	2.0	1.0	2		06/05/15 07:28	100-41-4	
Methyl-tert-butyl ether	**<0.35**	ug/L	2.0	0.35	2		06/05/15 07:28	1634-04-4	
Toluene	**55.5**	ug/L	2.0	1.0	2		06/05/15 07:28	108-88-3	
Xylene (Total)	**388**	ug/L	6.0	3.0	2		06/05/15 07:28	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%	70-130		2		06/05/15 07:28	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2		06/05/15 07:28	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		2		06/05/15 07:28	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

Sample: EFFLUENT **Lab ID: 40115869002** Collected: 06/01/15 13:30 Received: 06/03/15 09:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/04/15 23:28	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/04/15 23:28	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		06/04/15 23:28	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/04/15 23:28	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/04/15 23:28	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%	70-130		1		06/04/15 23:28	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/04/15 23:28	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		06/04/15 23:28	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

QC Batch: MSV/28748
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40115869001, 40115869002

METHOD BLANK: 1169470 Matrix: Water
Associated Lab Samples: 40115869001, 40115869002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	06/04/15 15:59	
Ethylbenzene	ug/L	<0.50	1.0	06/04/15 15:59	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	06/04/15 15:59	
Toluene	ug/L	<0.50	1.0	06/04/15 15:59	
Xylene (Total)	ug/L	<1.5	3.0	06/04/15 15:59	
4-Bromofluorobenzene (S)	%	94	70-130	06/04/15 15:59	
Dibromofluoromethane (S)	%	101	70-130	06/04/15 15:59	
Toluene-d8 (S)	%	99	70-130	06/04/15 15:59	

LABORATORY CONTROL SAMPLE & LCSD: 1169471 1169472

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	46.8	48.5	94	97	70-130	4	20	
Ethylbenzene	ug/L	50	52.9	52.9	106	106	70-132	0	20	
Methyl-tert-butyl ether	ug/L	50	46.3	46.5	93	93	48-141	0	20	
Toluene	ug/L	50	49.3	50.2	99	100	70-130	2	20	
Xylene (Total)	ug/L	150	153	155	102	103	70-132	1	20	
4-Bromofluorobenzene (S)	%				96	100	70-130			
Dibromofluoromethane (S)	%				105	103	70-130			
Toluene-d8 (S)	%				91	101	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1170129 1170130

Parameter	Units	40115815026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	50.3	50.9	101	102	70-130	1	20	
Ethylbenzene	ug/L	<1.0	50	50	53.4	52.7	107	105	70-132	1	20	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	46.5	48.5	93	97	48-143	4	20	
Toluene	ug/L	<1.0	50	50	51.6	52.2	103	104	70-130	1	20	
Xylene (Total)	ug/L	<3.0	150	150	157	157	104	104	70-132	0	20	
4-Bromofluorobenzene (S)	%						98	100	70-130			
Dibromofluoromethane (S)	%						106	104	70-130			
Toluene-d8 (S)	%						101	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 FORMER CLARK 646
Pace Project No.: 40115869

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40115869001	INFLUENT	EPA 8260	MSV/28748		
40115869002	EFFLUENT	EPA 8260	MSV/28748		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40115869

Page 10 of 11

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	TriCore Environmental LLC
Branch/Location:	Naperville, IL
Project Contact:	Marcos Czako
Phone:	630-520-9973
Project Number:	100018
Project Name:	Former Clark 646
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	LUST

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	SHAWN RODECK
Invoice To Company:	TriCore Environmental
Invoice To Address:	2368 Corporate Drive Naperville, IL 60563 Suite 116
Invoice To Phone:	630 520-9973

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: BTEX/MTBE 8260	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Influent	6/1/15	13:20	W	X	3-40 ml	3-40 ml VOB	
002	Effluent	6/1/15	13:30	W	X	3-40 ml		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Randy Wilson	6/2/15 1115	Brian Kuzynski	6/2/15 1115
Brian Kuzynski	6/2/15 1710	C Lagwhe	6/2/15
C S Logistics	6-3-15 0935	Susan Wyle	6-3-15 0935

PACE Project No. 40115869
Receipt Temp = 4 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO#: 40115869

40115869

Client Name: Tri Core

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: C&S Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR44 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 6-3-15
Initials:

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	14.
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (If purchased):		

If checked, see attached form for additional comments ☐

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: LW **Date:** 6/3/15

This page can be completed online.

40115869

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Former Clark Retail Station #646

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. (initial)
2. Chain-of-custody procedures were followed in the field. (initial)
3. Sample integrity was maintained by proper preservation. (initial)
4. All samples were properly labeled. (initial)

C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms (initial)
2. Sample integrity was maintained by proper preservation. (initial)
3. All samples were properly labeled. (initial)

This page can be completed online.

40115869

4. Quality assurance/quality control procedures were established and carried out. UW (initial)

5. Sample holding times were not exceeded. UW (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. UW (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). UW (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Randy Wilson

Title: Senior Technician

Company: TriCore Environmental, LLC

Address: 1800 West Hawthorne Lane, Suite P

City, State, ZIP: West Chicago, Illinois 60185

Phone: (630) 520-9973

Signature: Randy Wilson

Date: 6-1-15

Laboratory Representative

Name: Laurie Woerfel

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1241 Bellevue Street - Suite 9

City, State, ZIP: Green Bay, WI 54302

Phone: (920) 469-2436

Signature: Laurie Woerfel

Date: 6/4/15

ATTACHMENT E

AIR ANALYTICAL LABORATORY REPORTS AND CERTIFICATIONS

Pace Analytical®
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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 15, 2013

Marcos Czako
TriCore Environmental, LLC
1800 West Hawthorne Lane
Suite P
West Chicago, IL 60185

RE: Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

Dear Marcos Czako:
Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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(612)607-1700

SAMPLE SUMMARY

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10247989001	VAC EFFLUENT	Air	11/01/13 14:40	11/02/13 08:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10247989001	VAC EFFLUENT	TO-3 Air	DL1	7
		TO-3 Air	DL1	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

Sample: VAC EFFLUENT **Lab ID: 10247989001** Collected: 11/01/13 14:40 Received: 11/02/13 08:37 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX BAG	Analytical Method: TO-3 Air							
Benzene	**5.6**	ppmv	0.10	1		11/05/13 16:39	71-43-2	
Ethylbenzene	**0.49**	ppmv	0.10	1		11/05/13 16:39	100-41-4	
Methyl-tert-butyl ether	**0.15**	ppmv	0.10	1		11/05/13 16:39	1634-04-4	
THC as Gas	**26.2**	ppmv	1.0	1		11/05/13 16:39		A1
Toluene	**2.1**	ppmv	0.10	1		11/05/13 16:39	108-88-3	
m&p-Xylene	**2.4**	ppmv	0.20	1		11/05/13 16:39	179601-23-1	
o-Xylene	**0.74**	ppmv	0.10	1		11/05/13 16:39	95-47-6	
TO3 GCV AIR Meth,Ethane,Ethene	Analytical Method: TO-3 Air							
Methane	**195**	ppmv	20.0	20		11/06/13 13:50	74-82-8	A1

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

QC Batch: AIR/18642
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR BTEX BAG
Associated Lab Samples: 10247989001

METHOD BLANK: 1570829 Matrix: Air
Associated Lab Samples: 10247989001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	11/05/13 15:18	
Ethylbenzene	ppmv	ND	0.10	11/05/13 15:18	
m&p-Xylene	ppmv	ND	0.20	11/05/13 15:18	
Methyl-tert-butyl ether	ppmv	ND	0.10	11/05/13 15:18	
o-Xylene	ppmv	ND	0.10	11/05/13 15:18	
THC as Gas	ppmv	ND	1.0	11/05/13 15:18	
Toluene	ppmv	ND	0.10	11/05/13 15:18	

LABORATORY CONTROL SAMPLE & LCSD: 1570830 1570831

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	0.95	0.94	95	94	70-130	1	30	
Ethylbenzene	ppmv	1	1.0	0.96	105	96	70-130	9	30	
m&p-Xylene	ppmv	2	2.1	1.9	103	95	70-130	8	30	
Methyl-tert-butyl ether	ppmv	1	0.83	0.83	83	83	70-130	0	30	
o-Xylene	ppmv	1	1.1	0.95	109	95	70-130	13	30	
THC as Gas	ppmv	10	11.8	11.1	118	111	70-130	7	30	
Toluene	ppmv	1	0.95	0.94	95	94	70-130	2	30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

QC Batch: AIR/18646
QC Batch Method: TO-3 Air
Analysis Method: TO-3 Air
Analysis Description: TO3 GCV AIR METH,ETHANE,ETHENE
Associated Lab Samples: 10247989001

METHOD BLANK: 1571010 Matrix: Air
Associated Lab Samples: 10247989001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ppmv	ND	1.0	11/06/13 10:35	

LABORATORY CONTROL SAMPLE & LCSD: 1571012 1571013

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ppmv	5	5.2	5.1	103	102	70-130	1	30	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

A1 The tedlar bag received outside 48 hours from collection.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 FORMER CLARK#646
Pace Project No.: 10247989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10247989001	VAC EFFLUENT	TO-3 Air	AIR/18642		
10247989001	VAC EFFLUENT	TO-3 Air	AIR/18646		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10247989

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: TriCore Environmental, LLC	Report To: Marcos I. Czakó	Attention: Shawn Rodeck
Address: 1800 W. Hawthorne Lane, Suite P	Copy To:	Company Name: TriCore Environmental, LLC
West Chicago, Illinois 60185		Address: 1800 W. Hawthorne Lane, Suite P, West Chicago, IL 60185
Email To: marcos.czako@tricoreweb.com	Purchase Order No.: 100018	Pace Quote Reference:
Phone: 630-520-9973 Fax 630-520-9976	Project Name: Former Clark #646	Pace Project Manager:
Requested Due Date/TAT: standard	Project Number: 100018	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION: ☐ GA ☑ L ☐ N ☐ I ☐ : ☐ OH ☐ C ☐ MI ☐ THER____

Filtered (Y/N): N N N

Requested Analysis: BTEX, MTBE TO-3; THC-GAS TO-3; Methane TO 3M

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX, MTBE TO-3	THC-GAS TO-3	Methane TO 3M	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	VAC EFFLUENT	AR	G			11/1/13	1440		2	2								X	X	X	N	001
2																					N	
3																					N	
4																					N	
5																					N	
6																					N	
7																					N	
8																					N	
9																					N	
10																					N	
11																					N	
12																					N	

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]/sampler	11/1/13	1500	[signature] PACE	11/2/13	0837

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N (Y)	Y/N (Y)	Y/N (Y)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Marcos I. Czakó

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 11/01/13

e-File(ALLQ020rev.3,31Mar05))22Jun2005

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.08	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: TRC CORP ENV.

Project #: WO# : 10247989

10247989

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 8037 1283 3048

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☑ None ☐ Other: _____

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** 11/2 [illegible]

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☑ Yes	☐ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: AIR				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: AIR BAGS

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 11/4/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

This page can be completed online.

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Former Clark Retail Station #646

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. MRE (initial)
2. Chain-of-custody procedures were followed in the field. MRE (initial)
3. Sample integrity was maintained by proper preservation. MRE (initial)
4. All samples were properly labeled. MRE (initial)

C. Laboratory Representative

Pace 10247989

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms CT (initial)
2. Sample integrity was maintained by proper preservation. CT (initial)
   Sample recd >48hr from collection
3. All samples were properly labeled. CT (initial)

This page can be completed online.

4. Quality assurance/quality control procedures were established and carried out. CT (initial)

5. Sample holding times were not exceeded. Sample recd Sat. Analyzed > 48 hrs for BTEX/MTBE/THC per cut. CT (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. CT (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). CT (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Marcus I. Cooke

Title: Geologist III

Company: TriCore Environmental, LLC

Address: 1800 West Hawthorne Lane, Suite P

City, State, ZIP: West Chicago, Illinois 60185

Phone: (630) 520-9973

Signature: [signature]

Date: 11/1/13

Laboratory Representative

Name: Carolynne Thut

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1241 Bellevue Street - Suite 9

City, State, ZIP: Green Bay, WI 54302

Phone: (920) 469-2436

Signature: [signature]

Date: 11/15/13

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 25, 2014

Marcos Czako
TriCore Environmental, LLC
1800 West Hawthorne Lane
Suite P
West Chicago, IL 60185

RE: Project: 100018 Former Clark 646
Pace Project No.: 10277237

Dear Marcos Czako:
Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

NELAP ACCREDITED TNI LABORATORY

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 100018 Former Clark 646
Pace Project No.: 10277237

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #40770
Alabama Certification #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #: Pace
Georgia Certification #: 959
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nebraska Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
Wisconsin Certification #: 999407970
West Virginia Certification #: 382
West Virginia DHHR #:9952C

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(612)607-1700

SAMPLE SUMMARY

Project: 100018 Former Clark 646
Pace Project No.: 10277237

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10277237001	**SVE Blower Effluent**	Air	08/11/14 14:02	08/12/14 09:45

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: 100018 Former Clark 646
Pace Project No.: 10277237

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10277237001	SVE Blower Effluent	TO-17	RTP	7

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 100018 Former Clark 646
Pace Project No.: 10277237

Sample: SVE Blower Effluent **Lab ID: 10277237001** Collected: 08/11/14 14:02 Received: 08/12/14 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO17 VOC AIR Active	Analytical Method: TO-17 Preparation Method: TO-17							
Benzene	**7750**	ug/m3	233	137.6	08/20/14 12:50	08/20/14 17:28	71-43-2	E
Ethylbenzene	**5840**	ug/m3	43.0	137.6	08/20/14 12:50	08/20/14 17:28	100-41-4	E
Methyl-tert-butyl ether	ND	ug/m3	65.8	137.6	08/20/14 12:50	08/20/14 17:28	1634-04-4	
THC as Gas(C4-C12)Hydrocarbons	**784000**	ug/m3	7100	137.6	08/20/14 12:50	08/20/14 17:28		E
Toluene	**13800**	ug/m3	68.8	137.6	08/20/14 12:50	08/20/14 17:28	108-88-3	E
m&p-Xylene	**22000**	ug/m3	108	137.6	08/20/14 12:50	08/20/14 17:28	179601-23-1	E
o-Xylene	**11600**	ug/m3	43.0	137.6	08/20/14 12:50	08/20/14 17:28	95-47-6	E

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 100018 Former Clark 646
Pace Project No.: 10277237

QC Batch: AIR/21106
QC Batch Method: TO-17
Analysis Method: TO-17
Analysis Description: TO17 MSS AIR Active
Associated Lab Samples: 10277237001

METHOD BLANK: 1766127
Matrix: Air
Associated Lab Samples: 10277237001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/m3	ND	10.8	08/20/14 12:38	
Ethylbenzene	ug/m3	ND	2.0	08/20/14 12:38	
m&p-Xylene	ug/m3	ND	5.0	08/20/14 12:38	
Methyl-tert-butyl ether	ug/m3	ND	3.1	08/20/14 12:38	
o-Xylene	ug/m3	ND	2.0	08/20/14 12:38	
THC as Gas(C4-C12)Hydrocarbons	ug/m3	ND	330	08/20/14 12:38	
Toluene	ug/m3	ND	3.2	08/20/14 12:38	

LABORATORY CONTROL SAMPLE: 1766128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	21.7	20.7	95	74-125	
Ethylbenzene	ug/m3	29.5	34.4	117	75-131	
m&p-Xylene	ug/m3	29.5	35.5	120	70-134	
Methyl-tert-butyl ether	ug/m3	24.5	36.5	149	45-148	CH,L0
o-Xylene	ug/m3	29.5	31.5	107	63-144	
THC as Gas(C4-C12)Hydrocarbons	ug/m3	2550	2270	89	70-130	
Toluene	ug/m3	25.6	25.0	98	66-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
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QUALIFIERS

Project: 100018 Former Clark 646
Pace Project No.: 10277237

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10277237001

[1] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 100018 Former Clark 646
Pace Project No.: 10277237

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10277237001	SVE Blower Effluent	TO-17	AIR/21106	TO-17	AIR/21107

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(Please Print Clearly)

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

10277237

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name:	TriCore Environmental LLC
Branch/Location:	Naperville, IL
Project Contact:	Marcos Czako
Phone:	630 520-9973 x1002
Project Number:	100018
Project Name:	Former Clark 646
Project State:	IL
Sampled By (Print):	Randy Wilson
Sampled By (Sign):	Randy Wilson
PO #:	100018
Regulatory Program:	LUST

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: T017M BTEX	MTBE (THC (AS GAS)
					Y/N	Pick Letter	No	No
							A	A
	SVE Blower Effluent	8-11-14	1330-14:02	A			X	X

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	SHAWN RODECK
Invoice To Company:	TriCore Environmental LLC
Invoice To Address:	2368 Corporate Lane Suite 116 Naperville, IL 60563
Invoice To Phone:	630 520-9973

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
32 min test	001	
SAMPLE TUBE #G0184927		
PUMP SERIAL #32209		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Randy Wilson	8/11/14 14:30	Fed EX	8/11/14 14:30
		Dave	8/12/14 0945

PACE Project No.

Receipt Temp = 1.3 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Tricore Enviro

Project #: WO# : 10277237

10277237

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 805940608786

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): ~~15.8~~ 8/2/14 1.3 **Corrected Temp (°C):** ~~15.8~~ 8/2/14 1.3 **Thermom. Used:** ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☑ 80512447

Temp should be above freezing to 6°C **Correction Factor:** true **Date & Initials of Person Examining Contents:** [illegible] 8/2/14

Type of ice Received ☐ Blue ☑ Wet ☐ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: TDT				11.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: [signature] **Date:** 8/12/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: TriCore Environmental, LLC
Phone: 630-520-9973

Lab Project Number: 10277237
Project Name: 100018 Former Clark 646

Lab Sample No: 10277237001 ProjSampleNum: 10277237001 Date Collected: 08/11/14 14:02
Client Sample ID: SVE Blower Effluent Matrix: Air Date Received: 08/12/14 9:45

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-17							
Benzene	2.39	ppmv	0.072	137.6	08/20/14 17:28 RTP	71-43-2	E
Ethylbenzene	1.32	ppmv	0.0097	137.6	08/20/14 17:28 RTP	100-41-4	E
m&p-Xylene	4.98	ppmv	0.024	137.6	08/20/14 17:28 RTP	179601-23-1	E
Methyl-tert-butyl ether	ND	ppmv	0.018	137.6	08/20/14 17:28 RTP	1634-04-4	
o-Xylene	2.63	ppmv	0.0097	137.6	08/20/14 17:28 RTP	95-47-6	E
THC as Gas(C4-C12)Hydrocarbons	Analyte not f	ppmv		137.6	08/20/14 17:28 RTP		E
Toluene	3.6	ppmv	0.018	137.6	08/20/14 17:28 RTP	108-88-3	E

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: TriCore Environmental, LLC
Phone: 630-520-9973

Lab Project Number: 10277237
Project Name: 100018 Former Clark 646

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[E] Analyte concentration exceeded the calibration range. The reported result is estimated.

This page can be completed online.

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 57.1 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident #: 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Former Clark Retail Station #646

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples. (initial)
2. Chain-of-custody procedures were followed in the field. (initial)
3. Sample integrity was maintained by proper preservation. (initial)
4. All samples were properly labeled. (initial)

C. Laboratory Representative Pace Proj. 10277237

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms (initial)
2. Sample integrity was maintained by proper preservation. (initial)
3. All samples were properly labeled. (initial)

This page can be completed online.

4. Quality assurance/quality control procedures were established and carried out. CT (initial)

5. Sample holding times were not exceeded. CT (initial)

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. CT (initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003). CT (initial)

D. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Randy Wilson

Title: Senior Technician

Company: TriCore Environmental, LLC

Address: 2368 Corporate Lane, Suite 116

City, State, ZIP: Naperville, Illinois 60563

Phone: (630) 620-9973

Signature: Randy Wilson

Date: 6/1/15

Laboratory Representative

Name: Carolynne Trout

Title: Project Manager

Company: Pace Analytical Services, Inc.

Address: 1700 Elm Street, Suite 200

City, State, ZIP: Minneapolis, MN 55414

Phone: (612) 607-1700

Signature: Carolynne Trout

Date: 6-2-2015

ATTACHMENT F

REDUX 390 SPECIFICATIONS

REDUX TECHNOLOGY®

Division of Azure Water Services, LLC

Privileged and Confidential

Redux Formulations – General Component Information

Redux Technology is the only company who has developed deposit control agents specifically for the groundwater remediation market. Since 1994, when we were granted the first patent for a blended deposit control agent for remedial systems, we have supplied deposit control programs to some 1500 remedial sites across the US and abroad.

Because of our market focus, all Redux products are formulated to be GRAS (generally recognized as safe) and easy to permit for discharge to surface water and groundwater. Because Redux products are not intended for use in the drinking water market, raw material choice is less constrained (drinking water products must meet National Sanitation Foundation, or NSF, Standard 60 criteria) and therefore product performance is far better than those products used in drinking water applications. However, to making permitting easier, raw materials are chosen, in part, for their environmental fate, transport and toxicity characteristics, with preference given to those materials that are NSF or FDA approved. Various toxicity data, including bioassay data, is generally included on all MSD sheets for Redux products. For most products, no-effect levels (NOAEL's) for aquatic species (daphnia and minnows) is more than an order of magnitude above recommended use levels.

Redux 390 Components

Redux 390 contains two dispersing polymers and a phosphonate sequestering agent.

The phosphonate sequestering agent used in Calsperse 500 is 2 phosphono-1,2,4-butanetricarboxylic acid (PBTC). Phosphonates were developed in mid- to late-1900's to replace inorganic phosphates and polyphosphates, which had been, and continue to be, widely used sequestering agents, primarily in the drinking water market. Phosphates degrade to orthophosphate, which serves to contribute to excessive nutrient loading in surface waters, and can thus create algal blooms and similar undesirable effects. Phosphonates are much more stable than phosphates, and do not degrade in natural environments to contribute to nutrient loading. Toxicity of PBTC is also widely available in the literature.

Two dispersing copolymers are used in Calsperse 500. Both are copolymers widely used in water treatment in many applications, and are considered non-toxic. Dispersant polymers tend to sorb to soils in the environment and degrade by photolysis, hydrolysis and various biodegradation pathways to yield simple organic acids

Both of these dispersants are very effective general use dispersants for calcium and iron, preventing crystal growth and precipitation of the salts of these cations. They are widely used in detergents (including dishwashing detergent), and cooling towers, among many other uses. Both are approved by FDA for use in papermaking (for paper contacting food) and in water used to produce steam which will come in contact with food (production food preparation).

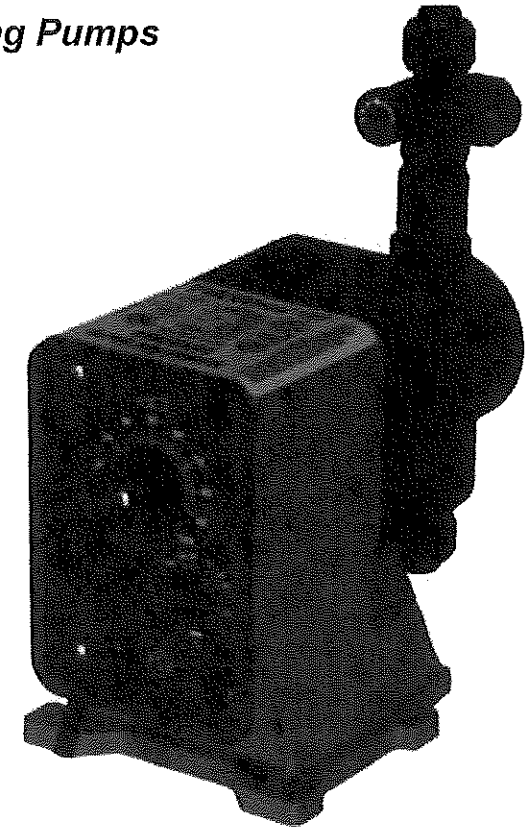
280 Callegari Drive, West Haven, CT 06516
Phone: 203-933-9071 Fax: 203-9331751 www.reduxtech.com

PULSAtron® *Electronic Metering Pumps*

Series A PLUS

Key Features

- ***Manual Control*** by on-line adjustable stroke rate and stroke length.
- ***Agency approved*** for demanding ***OUTDOOR*** and indoor applications.
- ***Highly Reliable*** timing circuit.
- ***Water Resistant*** excellent for ***OUTDOOR*** and indoor applications.
- ***Internally Dampened To Reduce Noise,*** very acceptable for household installations.
- ***Guided Ball Check Valve Systems,*** to reduce back flow and enhance outstanding priming characteristics.
- ***Premium Standard Wetted Component Materials.***
- ***Few Moving Parts*** and ***Wall Mountable.***
- ***Safe & Easy Priming*** with durable leak-free **bleed valve assembly** (standard).
- ***Optional Control:***
  External pace with auto/manual selection.
  External stop function
  1000:1 turndown control



Pressure and Flow Rate Capacity

MODEL			LBC2	LB02	LBC3	LB03	LB04	LB64	LBC4	LBS2	LBS3	LBS4
Capacity nominal (max.)		GPH	0.25	0.25	0.42	0.50	1.00	1.25	2.00	0.50	1.38	2.42
		GPD	6	6	10	12	24	30	48	12	33	58
		LPH	0.9	0.9	1.6	1.9	3.8	4.7	7.6	1.9	5.2	9.14
Pressure[1] (max.)	GFPP, PVDF, 316SS or PVC (W code) w/TFE Seats	PSIG (Bar)	250 (17)	150 (10)	250 (17)	150 (10)	100 (7)	100 (7)	50 (3.3)	250 (17)	150 (10)	100 (7)
	PVC (V code) Viton or CSPE Seats / Degas Liquid End		150 (10)							150 (10)		
Connections:		Tubing	1/4" ID X 3/8" OD						3/8" ID X 1/2" OD	1/4" ID X 3/8" OD		
		Piping	1/4" FNPT									
Strokes/Minute		SPM	125							250		

Note1: Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting certain valve options.

Engineering Data

Reproducibility: +/- 3% at maximum capacity
Viscosity Max CPS: 1000 CPS
Stroke Frequency Max SPM: 125 / 250 by Model
Stroke Frequency Turn-Down Ratio: 10:1 / 100:1 by Model
Stroke Length Turn-Down Ratio: 10:1
Power Input: 115 VAC/50-60 HZ/1 ph
230 VAC/50-60 HZ/1 ph

Average Current Draw:
@ 115 VAC; Amps: 0.6 Amps
@ 230 VAC; Amps: 0.3 Amps
Peak Input Power: 130 Watts
Average Input Power @ Max SPM: 50 Watts

Pulsatron Series A Plus Selection Guide

LB __ _ _ - ___ _ - ___

Models

Product Code	Flow Rate			Pressure Rating[1]		Stroke Rate	Standard Valve	Max. Viscosity
	GPD	GPH	LPH	PSI	BAR	(SPM)	Size	(cps)
S2	12	0.50	1.9	250	17	250	J (Teflon Only)	1,000
S3	33	1.38	5.2	150	10			
S4	58	2.42	9.1	100	7		1	
C2	6	0.25	0.9	250	17	125	J (Teflon only)	
C3	10	0.42	1.6					
02	6	0.25	0.9	150	10			
03	12	0.50	1.9					
04	24	1.00	3.8	100	7			
64	30	1.25	4.7				1	
C4	48	2.00	7.6	50	3.3		3	

Controls

S	Manual, Control, Analog Adjustment	100:1 Turndown	10:1 Stroke Length 10:1 Frequency
E	External Pace w/ Auto/Manual Switch		
P	Stop Function Option		
X	Manual Control, Analog Adjustment	1000:1 Turndown	10:1 Stroke Length 100:1 Frequency

Electrical

A	115 VAC, 60Hz
B	230 VAC, 50-60Hz, 1 Ph, 6' (2m) cord with 3 prong US plug
1	115 VAC, 60Hz less Agency Approvals
2	230 VAC, 50-60Hz, 1 Ph, 6' (2m) cord, no plug, less Agency

Liquid End Configuration - Head & Valves / Seats & O-Rings / Check Balls

PHC	GFPPL / CSPE / Ceramic (150 PSI Max)[1]
PTC	GFPPL / TFE / Ceramic
VTC	PVC / TFE / Ceramic (150 PSI Max)[1]
WTC	PVC / TFE / Ceramic (models > 150 PSI Max); For use on S2, C2, C3
KTC	PVDF / TFE / Ceramic
VVC	PVC / Viton / Ceramic (Not available with J Valve) (150 PSI Max)[1]
VHC	PVC / CSPE / Ceramic (Not available with J Valve) (150 PSI Max)[1]
Other	See Page 6 for additional materials of construction

Connection Sizes

J	Tubing .25" I.D. x .38" O.D. Standard for pumps from 0 - 33 GPD
1	Tubing .25" I.D. x .38" O.D. Standard for pumps from 20 - 45 GPD
3	Tubing .38" I.D. x .50" O.D. Standard for pumps from 45 - 240 GPD
9	Degas Head: Vent Tubing .25" I.D. x .38" O.D. (0-150 PSI pumps only)
Metric	
R	G 1/2 A Threads, .25" Ball, 0-7.1 LPH
Y	Tubing 6 x 12mm, .25" Ball, 0-7.1 LPH
Other	See Page 7 for additional connection options

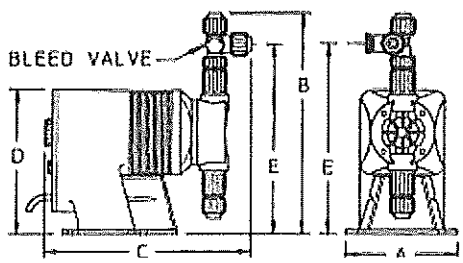
Options

XXX	StandardPump - No Options
130	PVDF Tubing
500	Five Function Valve
520	Five Function Degassing Valve
ITS	15 gal. ITS Tank System
CZXXX	CE Listed

Note1:Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting these valve options.

Note1:Pumps with rated pressure above 150 PSI will be de-rated to 150 PSI Max. when selecting these valve options.

Dimensions



Series A PLUS Dimensions (inches)						
Model No.	A	B	C	D	E	Shipping Weight
LB02 / S2	5.0	9.6	9.5	6.5	8.2	10
LBC2	5.0	9.9	9.5	6.5	8.5	10
LBC3	5.0	9.9	9.5	6.5	8.5	10
LB03 / S3	5.0	9.9	9.5	6.5	8.5	10
LB04 /S4	5.0	9.9	9.5	6.5	8.5	10
LB64	5.0	9.9	9.5	6.5	8.5	10
LBC4	5.0	9.9	9.5	6.5	8.5	10

ATTACHMENT G

AMENDED CORRECTIVE ACTION BUDGET

Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 0971855024 County: Lake

City: Wauconda Site Name: Shivam Energy, Inc.

Site Address: 399 West Liberty Street

IEMA Incident No.: 892744 903199 _____ _____

IEMA Notification Date: 12/27/1989 10/30/1990 _____ _____

Date this form was prepared: Jun 10, 2015

This form is being submitted as a (check one, if applicable):

- ☐ Budget Proposal
- ☒ Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- ☐ Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____ _____ _____

Date(s): _____ _____ _____

This package is being submitted for the site activities indicated below:

35 Ill. Adm. Code 734:

- ☐ Early Action
- ☐ Free Product Removal after Early Action
- ☐ Site Investigation . . . . . Stage 1: ☐ Stage 2: ☐ Stage 3: ☐
- ☒ Corrective Action Actual Costs

35 Ill. Adm. Code 732:

- ☐ Early Action
- ☐ Free Product Removal after Early Action
- ☐ Site Classification
- ☐ Low Priority Corrective Action
- ☐ High Priority Corrective Action

35 Ill. Adm. Code 731:

- ☐ Site Investigation
- ☐ Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

Pay to the order of: Shivam Energy, Inc.

Send in care of: Mr. Shawn Rodeck

Address: P.O. Box 825

City: Warrenville State: Illinois Zip: 60555-0825

The payee is the: Owner ☒ Operator ☒ (Check one or both.)

Signature of the owner or operator of the UST(s) (required)

If you have a change of address, click here to print off a W-9 Form.

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: ☒ 101 or more: ☐

Number of USTs at the site: 4 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 3

Incident Numbers assigned to the site due to releases from USTs: 892744 903199

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	6,000	Yes ☒ No ☐	892744	Tank Leak
(same UST as above)	6,000	Yes ☒ No ☐	903199	Tank Leak
Gasoline	6,000	Yes ☒ No ☐	892744	Tank Leak
(same UST as above)	6,000	Yes ☒ No ☐	903199	Tank Leak
Gasoline	10,000	Yes ☐ No ☒	NA	
Gasoline	10,000	Yes ☐ No ☒	NA	
		Yes ☐ No ☐		
		Yes ☐ No ☐		
		Yes ☐ No ☐		

Add More Rows Undo Last Add

Budget Summary

Choose the applicable regulation: (•) 734 ( ) 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
					Proposed
Drilling and Monitoring Well Costs Form	$	$	$	$	$ .00
Analytical Costs Form	$	$	$	$	$ 60.00
Remediation and Disposal Costs Form	$	$	$	$	$ 52,597.57
UST Removal and Abandonment Costs Form	$	$	$	$	$ .00
Paving, Demolition, and Well Abandonment Costs Form	$	$	$	$	$ .00
Consulting Personnel Costs Form	$	$	$	$	$ 100,585.80
Consultant's Materials Costs Form	$	$	$	$	$ 14,862.15
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	$	$	$	$	$ 168,105.52

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost ($) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260		X		=	
BETX Water with MTBE EPA 8260		X		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010		X		=	
Fraction Organic Carbon Content (f_{oc}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/ neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734.Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)		X		=	
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH	1	X	10.00	=	$10.00
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270		X		=	
Polynuclear Aromatics PNA, or PAH WATER EPA 8270		X		=	
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water		X		=	
Alkalinity	1	X	18.00	=	$18.00
		X		=	
		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (p_b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (p_s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)		X		=	
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil		X		=	
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
Iron and Total Hardness	1	X	32.00	=	$32.00
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device		X		=	
Sample Shipping per sampling event[1]		X		=	

[1]A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: $ 60.00

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard ($)	Total Cost

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard ($)	Total Cost

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard ($)	Total Cost

B. Alternative Technology

Alternative Technology Selected:	
Number of Cubic Yards of Soil to Be Remediated	
Total Non-Consulting Personnel Costs Summary Sheet ($)	3,050.00
Total Remediation Materials Costs Summary Sheet ($)	47,177.32
Total Cost of the System	$50,227.32

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet ($)	
Total Remediation Materials Costs Summary Sheet ($)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

☐ Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon ($)	Total Cost ($)
415	0.89	370.25

E. Drum Disposal

☐ Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum ($)	Total Cost ($)
Number of Drums of Liquid Waste	**Cost per Drum ($)**	**Total Cost ($)**
25	80.00	2,000.00
Total Drum Disposal Costs		2,000.00

Total Remediation and Disposal Costs:	$52,597.57

Non-Consulting Personnel Costs Summary Sheet

Employee Name	Personnel Title	Hours	Rate ($)	Total Cost
Task				
Van-Hoesen Industries, Inc.	Senior Technician	16.00	75.00	$1,200.00
Technician to help lift and remove AS trays followed by scraping scaling and reinstallation bi-monthly 6/15 through 12/15				
Van-Hoesen Industries, Inc.	Senior Technician	16.00	75.00	$1,200.00
Technician to help lift and remove AS trays followed by scraping scaling and reinstallation bi-monthly 6/15 through 12/15				
Van-Hoesen Industries, Inc.	Senior Technician	5.00	65.00	$325.00
Technician to help lift and remove AS trays followed by scraping scaling and reinstallation in 12/14				
Van-Hoesen Industries, Inc.	Senior Technician	5.00	65.00	$325.00
Technician to help lift and remove AS trays followed by scraping scaling and reinstallation in 12/14				

Total of Non-Consulting Personnel Costs	$3,050.00

Remediation Materials Costs Summary Sheet

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Subcontractor (if applicable)				
Bisco Environmental, Inc.	1.00	2,150.00	each	$2,150.00
Stripper tray and additional height on trailer				
Bisco Environmental, Inc.	1.00	203.00	each	$203.00
Additional shipping costs above the $2,500 that was proposed in the CA Budget dated 6/16/09				
Judge Concrete Industries, Inc.	1.00	2,800.00	each	$2,800.00
Installation of concrete pad to support remediation trailer				
Acres Group	1.00	1,800.00	each	$1,800.00
Village of Wauconda building permit requirement to grade and install erosion control blanket in area of trenching and pad				
Van Hoesen Industries, Inc.	3.75	96.67	hour	$362.50
On site time for RW development during baseline groundwater sampling to determine expected influent concentration				
Blue Ribbon Electrical, Inc.	1.00	3,815.21	each	$3,815.21
Electrical contractor for system installation				
Aronson Fence Co., Inc.	1.00	2,825.00	each	$2,825.00
Village of Wauconda building code requirement to install a fence around the remediation system trailer				
Delta-Therm Corporation	1.00	345.75	each	$345.75
Heat trace for exterior remediation system piping				
Delta-Therm Corporation	1.00	37.00	each	$37.00
Heat trace for exterior remediation system piping				

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Subcontractor (if applicable)				
Blue Ribbon Electrical, Inc.	1.00	1,169.76	each	$1,169.76
Electrical contractor for system installation				
Camping World	1.00	62.04	each	$62.04
Wheel covers for remediation trailer so the brake system does not rust				
Delta-Therm Corporation	1.00	716.50	each	$716.50
Heat trace for exterior remediation system piping				
Blue Ribbon Electrical, Inc.	1.00	431.12	each	$431.12
Troubleshoot transfer pump and install circuitry for heat trace				
Combined Fluids Products Company	1.00	379.97	each	$379.97
Oil for vacuum blower				
McMaster Carr	1.00	335.00	each	$335.00
Foam rubber insulation to wrap around heat trace and exterior remediation system piping				
McMaster Carr	1.00	27.70	each	$27.70
Foam rubber insulation to wrap around heat trace and exterior remediation system piping				
Larson-Becker Co.	1.00	273.97	each	$273.97
2" x 1" Jet Cambell well seals for the recovery wells to replace the cracked well seals				
Bisco Environmental, Inc.	1.00	111.79	each	$111.79
Replacement gauges for the remediation system due to scaling issues				

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Subcontractor (if applicable)				
Stoddard Silencers, Inc.	1.00	507.60	each	$507.60
Silencer for vacuum blower exhaust to reduce noise for the residential property north of the site owned by Gwen Carey				
Air Services Company	1.00	576.60	each	$576.60
Vacuum pump service contractor to inspect and repair pump				
McMaster-Carr Supply Company	1.00	153.25	each	$153.25
Pipe fittings and cam lock with barbs for hose connections used to connect vacuum blower				
Air Services Company	1.00	2,736.04	each	$2,736.04
Vacuum pump removal for inspection and repair followed by inspection of replacement pump purchased by TriCore				
McMaster-Carr Supply Company	1.00	91.94	each	$91.94
Flexible adapter and pipe fittings to install air intake on other side of remediation trailer to reduce noise at house north of site				
Blue Ribbon Electrical, Inc.	1.00	337.50	each	$337.50
Electrical contractor used to install new vacuum pump to replace original pump which could not be repaired				
McMaster-Carr Supply Company	1.00	644.08	each	$644.08
Vacuum purchased for site to be used for carbon change-outs while concentrations are reduced to non-nuisance levels				
McMaster-Carr Supply Company	1.00	1,322.57	each	$1,322.57
3" petroleum hose with cam fittings to connect carbon units to the remediation system				
Bisco Environmental, Inc.	1.00	201.46	each	$201.46
Replacement level switch floats for KO tank and OWS separator due to scaling				

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Subcontractor (if applicable)				
TIGG Corporation	1.00	1,595.00	each	$1,595.00
1,000 pounds of re-activated carbon to replace spent carbon in VGAC units				
ComEd	7.00	900.00	month	$6,300.00
Electric service for remediation system operation from June through December 2015				
AT&T	7.00	75.00	month	$525.00
Telephone service for remediation system tele-monitoring system from June through December 2015				
Redux-390 Technology	7.00	890.00	month	$6,230.00
Redux-390 drum delivery to the site from June through December 2015				
Van Hoesen Industries, Inc.	4.00	150.00	event	$600.00
Box truck for bi-monthly AS cleaning from June through December 2015				
Hydro-Quip, Inc.	1.00	1,346.46	AS tray	$1,346.46
Replacement AS tray				
Air Services Company	1.00	4,408.44	service	$4,408.44
Vacuum pump removal for inspection and repair				
Zoro	1.00	962.74	pump	$962.74
KO tank replacement transfer pump				
Blue Ribbon Electrical, Inc.	1.00	642.33	each	$642.33
Installation of an outlet for the chemical pump, assist with installation of the KO tank replacement transfer pump				

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Subcontractor (if applicable)				
Van Hoesen Industries, Inc.	1.00	150.00	event	$150.00
Box truck for air stripper cleaning in December 2014				

Total of Remediation Materials Costs	$47,177.32

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* ($)	Total Cost
Remediation Category	**Task**			
Randy Wilson	Senior Technician	205.75	78.96	$16,246.02
CCA-Field	Changed carbon in both units, collected readings, cleaned trays, system O&M, blower prep & delivery			
Shawn Rodeck	Engineer III	12.00	121.49	$1,457.88
CCAP	Troubleshoot/adjustments, AS differential			
Shawn Rodeck	Engineer III	28.25	121.49	$3,432.09
CCA-Field	Check system operation and shut down all wells except RW-2, O&M and system cleaning			
Marcos Czako	Geologist III	82.75	106.91	$8,846.80
CCAP	Project Management, Remediation status report prep, O&M, trouble shooting/adjustments			
Holly Moore	Scientist II	2.50	78.96	$197.40
CCA-Field	System check, added oil to blower motor, took a PID reading			
Kimberly Henkel	Senior Acct. Technician	34.75	66.81	$2,321.65
CA-Pay	CA reimbursement prep			
Kimberly Henkel	Senior Admin. Assistant	.25	54.67	$13.67
CCAP	CA copying and mailing of reports			
Shawn Rodeck	Senior Prof. Engineer	1.75	157.94	$276.39
CCAP	System O&M (adjustments)			
Shawn Rodeck	Senior Acct. Technician	14.50	66.81	$968.75
CA-Pay	CA reimbursement prep			

Employee Name	Personnel Title	Hours	Rate* ($)	Total Cost
Remediation Category	**Task**			
Shawn Rodeck	Senior Project Manager	1.00	121.49	$121.49
CCAP	Project management			
Shawn Rodeck	Engineer III	3.75	121.49	$455.59
CCA-Field	Checked the blower for leaks w/ subcontractor, reassembled, repaired the AS trays, reset system			
Marcos Czako	Geologist III	26.00	102.96	$2,676.96
CCA-Field	Permit for RWs and remediation system trailer,			
Shawn Rodeck	Senior Prof. Engineer	2.50	154.84	$387.10
CCA-Field	Air stripper treatment evaluation			
Shawn Rodeck	Engineer III	14.50	119.11	$1,727.10
CCA-Field	Coordination with ComEd for power drop, fence installation management, heat trace coordination			
Shawn Rodeck	Engineer III	23.50	102.79	$2,415.57
CCA-Field	Floats for KO tank and OWS, vacuum blower repair and VGAC management and coordination			
Marcos Czako	Geologist III	51.25	95.96	$4,917.95
CCA-Field	Silencer installation, KO and OWS float replacement, vacuum pump trouble shooting, VGAC install			
Randy Wilson	Senior Technician	77.75	70.88	$5,510.92
CCA-Field	Installation of new vacuum blower, AS intake piping, silencer and VGAC install, float replacement			
Marcos Czako	Geologist III	12.00	95.96	$1,151.52
CCA-Field	Chemical additive research			

Employee Name	Personnel Title	Hours	Rate* ($)	Total Cost
Remediation Category	**Task**			
Randy Wilson	Senior Technician	42.00	77.41	$3,251.22
CCA-Field	Heat trace install; fence and plant barrier installation per the Village of Wauconda code requirements			
Andy Coglianese	Technician IV	12.00	71.45	$857.40
CCA-Field	Plant barrier installation per the Village of Wauconda building code requirements			
Randy Wilson	Senior Technician	8.00	77.41	$619.28
CCA-Field	Oversee grading per the Village of Wauconda building code requirements			
Randy Wilson	Senior Technician	128.00	78.96	$10,106.88
CCA-Field	Bi-weekly O&M events from 6/1/15 through 12/31/15			
Randy Wilson	Senior Technician	32.00	78.96	$2,526.72
CCA-Field	Bi-monthly AS cleaning events with subcontractor personnel from 6/1/15 through 12/31/15			
Randy Wilson	Senior Technician	48.00	78.96	$3,790.08
CCA-Field	Quarterly groundwater sampling events in August and November 2015			
Kyle Arney	Geologist III	48.00	106.91	$5,131.68
CCA-Field	Quarterly groundwater sampling events in August and November 2015			
Marcos Czako	Senior Project Manager	32.00	121.49	$3,887.68
CCA-Field	Project management and coordination of O&M and quarterly groundwater sampling events			
Shawn Rodeck	Engineer III	28.25	121.49	$3,432.09
CCA-Field	Troubleshooting and remediation systemadjustment evaluations			

Employee Name	Personnel Title	Hours	Rate* ($)	Total Cost
Remediation Category	**Task**			
Marcos Czako	Geologist III	32.00	106.91	$3,421.12
CCAP	Preparation of a Remediation Status Report in December 2015			
Shawn Rodeck	Senior Prof. Engineer	6.00	157.94	$947.64
CCAP	Review and certification of a Remediation Status Report in December 2015			
Jessie Otte	Senior Draftperson/CAD	8.00	72.88	$583.04
CCAP	Preparation of maps for the Remediation Status Report in December 2015			
Kimberly Henkel	Senior Acct. Technician	48.00	66.81	$3,206.88
CA-Pay	Preparation of a reimbursement claim in June, September, and December 2015			
Shawn Rodeck	Senior Prof. Engineer	6.00	157.94	$947.64
CA-Pay	Review and certification of a reimbursement claim in June, September, and December 2015			
Kimberly Henkel	Senior Admin. Assistant	8.00	54.67	$437.36
CCAP	Copying, mailing, and filing of the Remediation Status Report and reimbursement claims			
Shawn Rodeck	Senior Prof. Engineer	2.00	157.94	$315.88
CA-Pay	Review and certification of reimbursement claims			
Kim Miller	Engineer III	4.50	121.49	$546.71
CCA-Field	O&M			
Kyle Arney	Geologist III	17.50	106.91	$1,870.93
CCA-Field	Quarterly groundwater sampling event in May 2015			

Employee Name	Personnel Title	Hours	Rate* ($)	Total Cost
Remediation Category	**Task**			
Randy Wilson	Senior Technician	18.25	78.96	$1,441.02
CCA-Field	Quarterly groundwater sampling event in May 2015			
Shawn Rodeck	Senior Prof. Engineer	.50	157.94	$78.97
CCAP	Review and certification of the Remediation Status Report dated June 2015			
Kim Miller	Senior Project Manager	.50	121.49	$60.74
CCAP	Project management and coordination			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	$100,585.80

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Remediation Category	**Description/Justification**			
Truck	15.00	105.00	day	$1,575.00
CCA-Field	Used for consultant transportation to and from site			
PID	14.25	95.00	day	$1,353.75
CCA-Field	Used to screen samples during soil boring installation activities			
Nitrile Gloves	189.00	.50	pair	$94.50
CCA-Field	Used to protect hands during recovery activities			
Interface Probe	2.00	35.00	day	$70.00
CCA-Field	Used to gauge the wells			
Air Flow Meter	9.25	35.00	day	$323.75
CCA-Field	Used to collect effluent air flow measurements			
Truck	25.25	125.00	day	$3,156.25
CCA-Field	Used for consultant transportation to and from site			
PID	12.00	115.00	day	$1,380.00
CCA-Field	Used to screen samples during soil boring installation activities and during O&M			
1/30/15 - USPS	1.00	1.40	each	$1.40
CCAP	Document shipping			
Truck	27.00	125.00	day	$3,375.00
CCA-Field	Used for consultant transportation to and from the site from 6/1/15 through 12/31/15			

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Remediation Category	**Description/Justification**			
PID	16.00	115.00	day	$1,840.00
CCA-Field	Used to collect effluent air concentrations during O&M from 6/1/15 through 12/31/15			
Air Flow Meter	16.00	35.00	day	$560.00
CCA-Field	Used to collect effluent air flow measurements from 6/1/15 through 12/31/15			
Disposable HDPE Bailers	44.00	10.00	bailer	$440.00
CCA-Field	Used to collect gw samples during quarterly gws events in August and November 2015			
Rope	660.00	.35	foot	$231.00
CCA-Field	Used during the quarterly gws events in August and November 2015			
Interface Probe	2.00	50.00	day	$100.00
CCA-Field	Used during the quarterly gws events in August and November 2015			
Nitrile Gloves	118.00	.50	pair	$59.00
CCA-Field	Used during the quarterly gws events and O&M events from 6/1/15 through 12/31/15			
Rope	450.00	.25	foot	$112.50
CCA-Field	Used during the quarterly groundwater samplingevent in May 2015			
Disposable HDPE Bailers	19.00	10.00	bailer	$190.00
CCA-Field	Used to collect groundwater samples during quarterly gws event in May 2015			

Total of Consultant Materials Costs	$14,862.15

ATTACHMENT H

OWNER/OPERATOR AND LICENSED PROFESSIONAL ENGINEER/GEOLOGIST BUDGET CERTIFICATION

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 903199 . I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

Costs associated with ineligible tanks.
Costs associated with site restoration (e.g., pump islands, canopies).
Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
Costs incurred prior to IEMA notification.
Costs associated with planned tank pulls.
Legal fees or costs.
Costs incurred prior to July 28, 1989.
Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: Shivam Energy, Inc.

Authorized Representative: Rajani Patel Title: Owner

Signature: Date: 2/15/15

Subscribed and sworn to before me the 15 day of February, 2015.

Sandra L. Rodeck (Notary Public) Seal:

OFFICIAL SEAL
SANDRA L. RODECK
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 1-24-2016

In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Shawn Rodeck L.P.E./L.P.G. Seal:

LICENSED PROFESSIONAL ENGINEER
SHAWN A. RODECK
062-052879
STATE OF ILLINOIS

L.P.E./L.P.G. Signature: Date: 06/11/2015

Subscribed and sworn to before me the 11 day of June, 2015.

(Notary Public) Seal:

OFFICIAL SEAL
KIMBERLY A HENKEL
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES:07/08/17

The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

ATTACHMENT I

OSFM ELIGIBILITY AND DEDUCTIBLE DETERMINATION LETTER

Office of the Illinois

State Fire Marshal

"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7008 2810 0000 2103 5290

April 28, 2009

Shivam Energy, Inc.
399 W. Liberty Street
Wauconda, IL 60084

In Re: Facility No. 2-010129
IEMA Incident No. 90-3109
Liberty Clark
399 Liberty Street
Wauconda, Lake Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on April 24, 2009 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

You have filed an "Election to Proceed as Owner" and have received acceptance from the Illinois Environmental Protection Agency. It has been determined that you are eligible to seek payment of costs in excess of $10,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 1 6,000 gallon Gasoline
Tank 2 6,000 gallon Gasoline

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

1. Neither the owner nor the operator is the United States Government.
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law.
3. The costs were incurred as a result of a confirmed release of any of the following substances:

   "Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law

   Aviation fuel

   Heating oil

Kerosene

Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.

4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.

5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.

6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.

7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and deductibility. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620

The following tanks are also listed for this site:

Tank 3 10,000 gallon Gasoline
Tank 4 10,000 gallon Gasoline

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020 or (217) 785-5878.

Sincerely,

Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

ATTACHMENT J

IEPA CAP FORM

Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed $50,000.00 for the violation and an additional civil penalty of not to exceed $10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program
Corrective Action Plan

A. Site Identification

IEMA Incident # (6- or 8-digit): 892744, 903199 IEPA LPC# (10-digit): 0971855024

Site Name: Shivam Energy, Inc.

Site Address (Not a P.O. Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

B. Site Information

1. Will the owner or operator seek reimbursement from the Underground Storage Tank Fund? ☑ Yes ☐ No
2. If yes, is the budget attached? ☑ Yes ☐ No
3. Is this an amended plan? ☑ Yes ☐ No
4. Identify the material(s) released: gasoline
5. This Corrective Action Plan is submitted pursuant to:
   a. 35 Ill. Adm. Code 731.166 ☐
      The material released was:
      -petroleum ☐
      -hazardous substance (see Environmental Protection Act Section 3.215) ☐
   b. 35 Ill. Adm. Code 732.404 ☐
   c. 35 Ill. Adm. Code 734.335 ☑

C. Proposed Methods of Remediation

1. Soil A DPE system is being utilized to address soil concentrations above the Tier 2 SROs.
2. Groundwater A DPE system is being utilized to address groundwater concentrations above the Tier 1 GROs.

D. Soil and Groundwater Investigation Results

(for incidents subject to 35 Ill. Adm. Code 731 only or 732 that were classified using Method One or Two, if not previously provided)

Provide the following:

1. Description of investigation activities performed to define the extents of soil and/or groundwater contamination;
2. Analytical results, chain-of-custody forms, and laboratory certifications;
3. Tables comparing analytical results to applicable remediation objectives;

4. Boring logs;
5. Monitoring well logs; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:
    a. Soil sample locations;
    b. Monitoring well locations; and
    c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
    a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
    b. The scope of the problems to be addressed by the proposed corrective action; and
    c. A schedule for implementation and completion of the plan;
2. Identification of the remediation objectives proposed for the site;
3. A description of the remedial technologies selected:
    a. The feasibility of implementing the remedial technologies;
    b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
    c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
5. A description of the current and projected future uses of the site;
6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
    a. an assessment of their long-term reliability;
    b. operating and maintenance plans; and
    c. maps showing area covered by barriers and institutional controls;
7. The water supply well survey:
    a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;
    b. Map(s) showing regulated recharge areas and wellhead protection areas;
    c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
    d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
    e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
    f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
    g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

8. Appendices:
    a. References and data sources report that are organized; and
    b. Field logs, well logs, and reports of laboratory analyses;
9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;
10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
11. A description of bench/pilot studies;
12. Cost comparison between proposed method of remediation and other methods of remediation;
13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
    a. The equations used;
    b. A discussion of how input variables were determined;
    c. Map(s) depicting distances used in equations; and
    d. Calculations; and
14. Provide documentation to demonstrate the following for alternative technologies:
    a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
    b. The proposed alternative technology will not adversely affect human health and safety or the environment;
    c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
    d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
    e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
    f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

F. Exposure Pathway Exclusion

Provide the following:

1. A description of the tests to be performed in determining whether the following requirements will be met:
    a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
    b. Soil saturation limit will not be exceeded for any of the organic contaminants;
    c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;
    d. Contaminated soils do not exhibit a pH $\leq$ 2.0 or $\geq$ 12.5; and
    e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124.
2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator		**Consultant**	
Name:	Shivam Energy, Inc.	Company:	TriCore Environmental, LLC
Contact:	Rajani Patel	Contact:	Marcos I. Czakó, P.G.
Address:	399 West Liberty Street	Address:	2368 Corporate Lane, Suite 116
City:	Wauconda	City:	Naperville
State:	Illinois	State:	Illinois
ZIP Code:	60084	ZIP Code:	60563
Phone:	(847) 526-3455	Phone:	(630) 520-9973
Signature:		Signature:	
Date:	2/15/15	Date:	06/09/15

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist		**L.P.E. or L.P.G. Seal**
Name:	Shawn Rodeck	
Company:	TriCore Environmental, LLC	
Address:	2368 Corporate Lane, Suite 116	
City:	Naperville	
State:	Illinois	
ZIP Code:	60563	
Phone:	(630) 520-9973	
Ill. Registration No.:	062-052879	
License Expiration Date:	11/30/2015	
Signature:		
Date:	06/11/2015	

