TRICORE ENVIRONMENTAL, LLC

April 6, 2009

VIA USPS PRIORITY MAIL
WITH DELIVERY CONFIRMATION

Mr. Brian Bauer
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
IEMA Incident No. 903199
LUST TECHNICAL FILE

Dear Mr. Bauer:

TriCore Environmental, LLC, on behalf of Shivam Energy, Inc., is providing an original and one copy of an Illinois Environmental Protection Agency Leaking Underground Storage Tank Program Free Product Removal Report, Plan, and Budget for the Illinois Emergency Management Agency incident number referenced above. Please note that the Eligibility and Deductible Determination letter has not been received from the Office of the State Fire Marshal (OSFM). Once the letter is received from the OSFM, a copy of the letter will be provided.

If you should have any questions concerning this submittal or require additional information, please contact either of the undersigned at (630) 520-9973.

Sincerely,

Marcos I. Czakó
Project Manager

Shawn Rodeck, P.E.
President

cc: Mr. Rajani Patel, Shivam Energy, Inc., 399 W. Liberty St., Wauconda, Illinois 60084
Ms. Jackie D. Soccorso, Village of Wauconda, 109 W. Bangs St., Wauconda, Illinois 60084
Ms. Gwen Carey, 363 Bangs St., Wauconda, Illinois 60084

Attachment

1800 WEST HAWTHORNE LANE, SUITE P • WEST CHICAGO, IL • 60185
TELEPHONE: (630) 520-9973 • FACSIMILE: (630) 520-9976
EMAIL: SARODECK@AOL.COM

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FREE PRODUCT REMOVAL PLAN

Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Lake County, Illinois 60084
IEMA Incident No. 903199
LPC No. 0971855024

Prepared for:

Mr. Rajani Patel
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084

Prepared by:

TriCore Environmental, LLC
1800 West Hawthorne Lane, Suite P
West Chicago, Illinois 60185
Phone: (630) 520-9973
Fax: (630) 520-9976
Email: sarodeck@aol.com

April 6, 2009

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Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Free Product Removal

A. Site Identification

IEMA Incident # (6- or 8-digit): 903199 IEPA LPC # (10 digit): 0971855024

Site Name: Shivam Energy, Inc.

Site Address (Not a PO Box): 399 West Liberty Street

City: Wauconda County: Lake ZIP Code: 60084

Leaking UST Technical File

B. Information Provided

1. **Free Product Removal Plan** ☒
2. **Free Product Removal Budget** ☒
3. **Free Product Removal Report** ☒

C. Free Product Removal

Provide the following:

1. **The names(s) of the person(s) responsible for implementing the free product removal measures;**

   The names of the people responsible for implementing the free product removal measures are provided below in Section F.

2. **The estimated quantity, type, and thickness of free product observed or measured in boreholes, wells, excavation, etc.;**

   On December 27, 2008, TriCore Environmental, LLC (TriCore) received a call from Ms. Gwen Carey, owner of the residential property located directly north of the site along Bangs Street. Ms. Carey indicated that her son, Mr. Scott Carey, who owns the house directly north of her, had gasoline vapors present in his basement.

   On December 29, 2008, TriCore met Ms. Carey at her house and then proceeded to her son's house. Upon arrival to Mr. Carey's house, the basement was inspected. No gasoline vapors were observed within Mr. Carey's basement; however, the basement was damp and humid. Water staining was also present on the concrete floor of the basement, indicating that the basement was not sealed to the outside. Ms. Carey indicated that she did not have any gasoline vapors present in her house.

   After meeting with Ms. Carey, TriCore inspected the sump wells (S-1 through S-3) associated with the underground storage tank (UST) system and several of the monitoring wells near the UST system (RW-1 (04'), MP-3, MW-2, MW-6, MW-12S, MW-13, MW-26, and MW-27) by lowering a bailer into each of the wells. The locations of the wells are illustrated on Figure 1. A sheen of weathered free product was present in MW-27.

No free product was present in any of the other wells that were inspected.

On December 31, 2008, TriCore returned to the site to regauge the wells. Upon arrival, TriCore gauged S-1 through S-3, MW-2, MW-26, and MW-27 with an electronic oil/water interface meter equipped with an audible signal. The meter was washed using a distilled water and Simple Green® solution wash between each use. A combination of new and weathered free product was present in S-1 through S-3 and MW-27. No free product was present in MW-2 or MW-26.

That afternoon, North Branch Environmental (North Branch) of Roselle, Illinois removed a total of 15 gallons of free product and 2,485 gallons of groundwater from S-1 through S-3 and MW-27 utilizing a vacuum truck. The free product and groundwater that were removed were transported off-site by North Branch for treatment and disposal at their facility.

From January 5 through April 1, 2009, TriCore periodically gauged S-1 through S-3, MW-27, and RW-2. Free product was present in S-1 through S-3 and MW-27 during these dates. S-2 was not gauged on January 5, 9, and 30, 2009 due to a pile of snow and ice that was covering the sump well; however, it is assumed that free product was present in the well since it is installed within the same UST field that S-1 and S-3 are installed in. Additionally, S-1 through S-3 were not gauged during the groundwater sampling activities performed on January 6, 2009, but it is also assumed that free product was present in these wells on this date. No free product was present in RW-2.

On January 9 and 27, March 9 and 13, and April 1, 2009, TriCore contracted North Branch to perform free product recovery events at the site. During these events, North Branch recovered a total of 59 gallons of free product and 11,841 gallons of groundwater from S-1 through S-3 and MW-27. On February 26, 2009, TriCore recovered approximately 0.01 gallons of free product and 3.99 gallons of groundwater from S-1 through S-3 and MW-27 using disposable, dedicated high density polyethylene (HDPE) bailers. The free product and groundwater recovered on this date were contained on site in a 55-gallon drum. Please note that the volume of free product and groundwater recovered on January 9 and April 1, 2009 included approximately 150 gallons of purged free product and groundwater that were contained on site in 55-gallon drums that were generated during the groundwater sampling activities performed on January 5 and 6, 2009 and the free product recovery activities performed on February 26, 2009.

On February 2, 2009, TriCore oversaw the installation of 10 soil borings (SB-41 through SB-50) to assess the concentrations of the constituents of concern in the soil. During the drilling and sampling activities, no free product was observed in the soil samples that were collected from the borings.

Gauging results are summarized in Tables 1 and 2. Free product and groundwater recovery volumes are summarized in Table 2. Copies of the waste manifests for the free product and groundwater that were recovered on December 31, 2008 through April 1, 2009 are provided in Appendix A. Soil boring logs are provided in Appendix B.

3. **The type of free product recovery system used and technical justification for the method of recovery chosen;**

As mentioned above in Section C. 2., HDPE bailers and vacuum trucks were utilized to recover free product from S-1 through S-3 and MW-27. The bailers provided a means of recovering free product without recovering a large volume of groundwater from the well; while the vacuum trucks provided a means of recovering free product, as well as contaminated groundwater, from the wells.

Proposed Free Product Recovery System

As mentioned above in Section C. 2., free product was present in S-1 through S-3 on April 1, 2009 and has periodically been present in MW-27. Therefore, TriCore is proposing the installation of one 4-inch recovery well (RW-3) to a maximum depth of 15 feet below land surface (bls) adjacent to MW-27. Since S-1 through S-3 are 12-inch in diameter, these well will be used as free product recovery wells. The proposed location of RW-3 is illustrated on Figure 1. The well will be installed using the following drilling and sampling procedures.

The boring will be drilled and sampled to a minimum of 5 feet bls using a stainless steel hand auger to collect soil samples in 1.0-foot depth intervals. The hand auger will be utilized to minimize the risk of damage to subsurface structures and utilities. Reducing the risk of striking utility lines increases the safety factor for drillers and other on-site personnel.

The boring will then be completed with a track- or truck-mounted Geoprobe® using direct-push technology to advance the borings. Continuous soil samples will be collected at 2.0-foot intervals from 5 feet bls to the termination depth of the boring. All soil samples will be collected within a 2.125-inch inside diameter by 4.0-foot long macro-core sampler. To prevent cross contamination between the sampling intervals, all of the drilling and sampling equipment will be decontaminated prior to each use using a distilled water and Liquinox® solution wash, followed by a distilled water rinse. All of the soil cuttings generated during the installation of the boring will be contained on site in 55-gallons drums.

As soil samples are collected, the geology of the subsurface soil will be described. Then upon retrieval, a portion of each soil sample will be immediately divided for field screening and laboratory analysis. Samples designated for field screening will be placed in airtight plastic bags, allowed to volatilize and equilibrate, and then screened for the presence of volatile organic compounds using a photoionization detector (PID) equipped with a 10.6 electron-volt lamp. The PID will be field calibrated using isobutylene gas prior to use. From the other portion of each sample, two 5-gram samples will be collected and placed in laboratory-provided 40-milliliter glass vials containing methanol as a preservative, and one 4-ounce (oz) sample will be collected and placed in a laboratory-provided 4-oz plastic container. The samples will then be labeled accordingly and packed in a cooler containing ice. The soil sample from the boring collected above the field-interpreted water table exhibiting the highest PID measurement will be submitted for laboratory analysis. The soil sample will be submitted under standard chain-of-custody protocol to an Illinois Environmental Laboratory Accreditation Program

(IL ELAP) approved laboratory for benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) analysis. Additionally, one soil sample will be collected for waste disposal parameters, which includes pH, toxicity characteristic leaching procedure lead, paint filter, and flash point.

After soil samples are collected, a recovery well will be installed in the boring. The recovery well will be constructed out of 4-inch inside diameter, Schedule 40 polyvinyl chloride (PVC) casing, 4-inch diameter, 0.010-inch slot Schedule 40 PVC screen, and a 4-inch well cap. The well will be constructed so that the screened portion of the well intersects the groundwater table. The annulus of the well will be filled with washed silica sand to a minimum of 1 foot above the top of the well screen. Bentonite pellets will be added followed by bentonite chips to approximately 6 inches below the top of the well casing. The bentonite pellets and chips will be hydrated to provide a seal to prevent potential surface water from migrating into the well through the sand pack. A flush-mount well vault with a bolt-down cover will be installed within a concrete well pad to cap and protect the well.

To continually recover free product from RW-3 and S-1 through S-3, TriCore is proposing to install a free product recovery system. The system will consist of a peristaltic pump that uses a standard brushless digital drive, four independent pump heads, and high performance tygon fuel-type tubing. The peristaltic pump will be connected by ¼-inch Goodyear Gorilla hoses to the individual skimmer assemblies which will be installed within RW-3 and S-1 through S-3. In the asphalt paved and/or concreted areas, the hoses will be installed within a cut that has been made into the surface by an asphalt and concrete saw. In the grass areas, a trench approximately 6 inches bls will be hand excavated and the hoses will be installed within the trench. Once the hoses are installed, the asphalt and/or concrete will be sealed to prevent surface water and debris from entering the cut and coming in contact with the hoses. The excavated trench will be backfilled with topsoil and capped with grass seed. Each skimmer assembly will contain a float that is designed to float on top of the groundwater. An inlet to the reservoir of the skimmer is located near the top of the float to allow for the recovery of free product and not groundwater. The free product will then be removed from the reservoir into a free product storage container by the peristaltic pump. The free product storage container will be equipped with an electronic-optic point-level sensor that is designed to shut off the peristaltic pump motor when the container is full. Also, a secondary containment deck will be used to comply with spill requirement regulations. The free product recovery system will be placed within the existing remediation building to protect the system. To operate the free product recovery system, an electrical outlet will need to be installed by a licensed electrician adjacent to the proposed location of the free product recovery system. The electrician will be responsible for obtaining all necessary permits from the Village of Wauconda to install the outlet.

The free product system will operate continuously until free product recovery has been completed or the free product does not exceed one-eighth of an inch in thickness. While in operation, TriCore will perform weekly operation and maintenance (O&M) on the system. During a typical O&M day, TriCore will inspect the system and recovery wells, and gauge all of the existing on-site monitoring wells. System component cleaning and repairs will be performed on a periodic or as needed basis.

Prior to the installation of the free product recovery system described above, TriCore is proposing two free product recovery events from the sumps and/or monitoring wells containing free product utilizing vacuum trucks.

Costs associated with the proposed free product recovery system are provided in the Free Product Removal Budget provided in Appendix C. An Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form is provided in Appendix D. A copy of the Office of the State Fire Marshal Eligibility and Deductible Determination letter is provided in Appendix E.

4. **Whether any discharge will take place on- or off-site during the recovery operation and where this discharge (point) will be located;**

   No discharge took place or will take place on or off site during the recovery operations.

5. **The type of treatment applied to, and the effluent quality expected from, any discharge;**

   As mentioned above in Section C. 4., no discharge took place or will take place on or off site during the recovery operations.

6. **The disposition of the recovered free product;**

   The free product and groundwater that were recovered on December 31, 2008 through April 1, 2009 were treated and disposed of by North Branch. Copies of the waste manifests are provided in Appendix A.

7. **The steps that have been taken or that are being taken to obtain necessary permits for any discharge;**

   As mentioned above in Section C. 4., no discharge took place or will take place on or off site during the recovery operations; therefore, no discharge permits were or will be required.

8. **The steps taken to identify the source and extent of free product; and**

   Based on the weathered free product present in S-1 through S-3 and MW-27 on December 31, 2008, the source of the free product is determined to be Illinois Emergency Management Agency (IEMA) incident number 903199. As of April 1, 2009, free product was present in S-1 through S-3. A map showing the estimated extent of the free product based on the April 1, 2009 gauging data is illustrated on Figure 2.

   Proposed Free Product Delineation Activities

   To assess the extent of the free product present in S-1 through S-3 and MW-27, TriCore is proposing the installation of seven groundwater monitoring wells (SB-51/MW-29 through SB-57/MW-35) to a maximum depth of 15 feet bls. The proposed locations of the groundwater monitoring wells are illustrated on Figure 1. The wells will be installed using the drilling and sampling procedures described above in Section C. 3.

   The soil sample from SB-51/MW-29 through SB-53/MW-31 and SB-55/MW-33 collected above the field-interpreted water table exhibiting the highest PID measurement will be submitted to an IL ELAP approved laboratory for BTEX and MTBE analysis. Soil samples collected from SB-54/MW-32, SB-56/MW-34, and SB-57/MW-35 will not be submitted for laboratory analysis since these wells will be installed adjacent to SB-42,

SB-44, and SB-45, which were completed on February 2, 2009. After soil samples are collected, a 2-inch inside diameter groundwater monitoring well will be installed in MW-29 through MW-32, while a 4-inch inside diameter groundwater monitoring well will be installed in MW-33 through MW-35. The monitoring wells will be installed using the methods described above in Section C. 3. Please note that MW-33 through MW-35 are being proposed as 4-inch diameter monitoring wells since they will also be utilized as the recovery wells for the temporary remediation system that will be installed in association with IEMA incident number 892744, as well as IEMA incident number 903199.

Approximately two weeks after the wells have been installed, all of the existing on-site wells will be gauged using the methods and materials described above in Section C. 2. If free product is present in any of the wells, additional wells may be required to assess the extent of the free product. The additional wells, if required, will be proposed in a Free Product Removal Plan. In addition, the top-of-casing elevation of MW-29 through MW-35 will be surveyed so that groundwater elevations and flow directions can be determined.

Costs associated with the proposed free product delineation activities described above are provided in the Free Product Removal Budget provided in Appendix C.

9. A schedule of future activities necessary to complete the recovery of free product still exceeding one-eighth of an inch in depth.

The following is a proposed schedule for the implementation of this plan once it has been approved by the Illinois Environmental Protection Agency (IEPA).

Activity	Projected Completion Time
Groundwater monitoring well and recovery well installation activities, free product recovery events	Month 1
Free product system installation	Month 1
Weekly free product system O&M	Months 1 through 3
Prepare and submit a quarterly Free Product Removal Plan and Budget or Report	Month 3

D. Supporting Documentation

Provide the following:

1. Site map meeting requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:

a. Locations where free product was encountered including its estimated thickness;
b. Location of recovery points;
c. Location of the treatment unit; and
d. Location of discharge points;

All of the items listed above are illustrated on Figure 2 except for the following:

c. No treatment units were utilized at the site; and

d. There were no discharge points at the site.

2. A table showing the dates that free product recovery was conducted and the amount of free product recovered on each date; and

The dates that free product recovery was conducted and the amount of free product and groundwater that were recovered on each date are summarized in Table 2.

3. **Copies of waste manifests.**

   Copies of the waste manifests for the free product and groundwater that were recovered on December 31, 2008 through April 1, 2009 are provided in Appendix A.

E. Submission of a Free Product Removal Plan

In accordance with 35 Ill. Adm. Code 732.203 or 734.215, if free product removal activities will be conducted more than 45 days after confirmation of the presence of free product, the owner or operator must submit to the Illinois EPA for review a free product removal plan and budget, if applicable. The plan must include the information requested under Sections C and D of this form, as applicable.

In accordance with 35 Illinois Administrative Code 734.215, since free product removal activities will be conducted more than 45 days after the confirmation of the presence of free product, TriCore is submitting this Free Product Removal Plan and Budget to the IEPA for review and approval.

F. 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

Name: Shivam Energy, Inc.
Contact: Rajani Patel
Address: 399 West Liberty Street
City: Wauconda
State: Illinois
ZIP Code: 60084
Phone: (847) 526-3455
Signature: Rajani Patel
Date: 03/01/2009

Consultant

Company: TriCore Environmental, LLC
Contact: Marcos I. Czakó
Address: 1800 W. Hawthorne Ln., Suite P
City: West Chicago
State: Illinois
ZIP Code: 60185
Phone: (630) 520-9973
Signature: Marcos I. Czakó
Date: 03/05/09

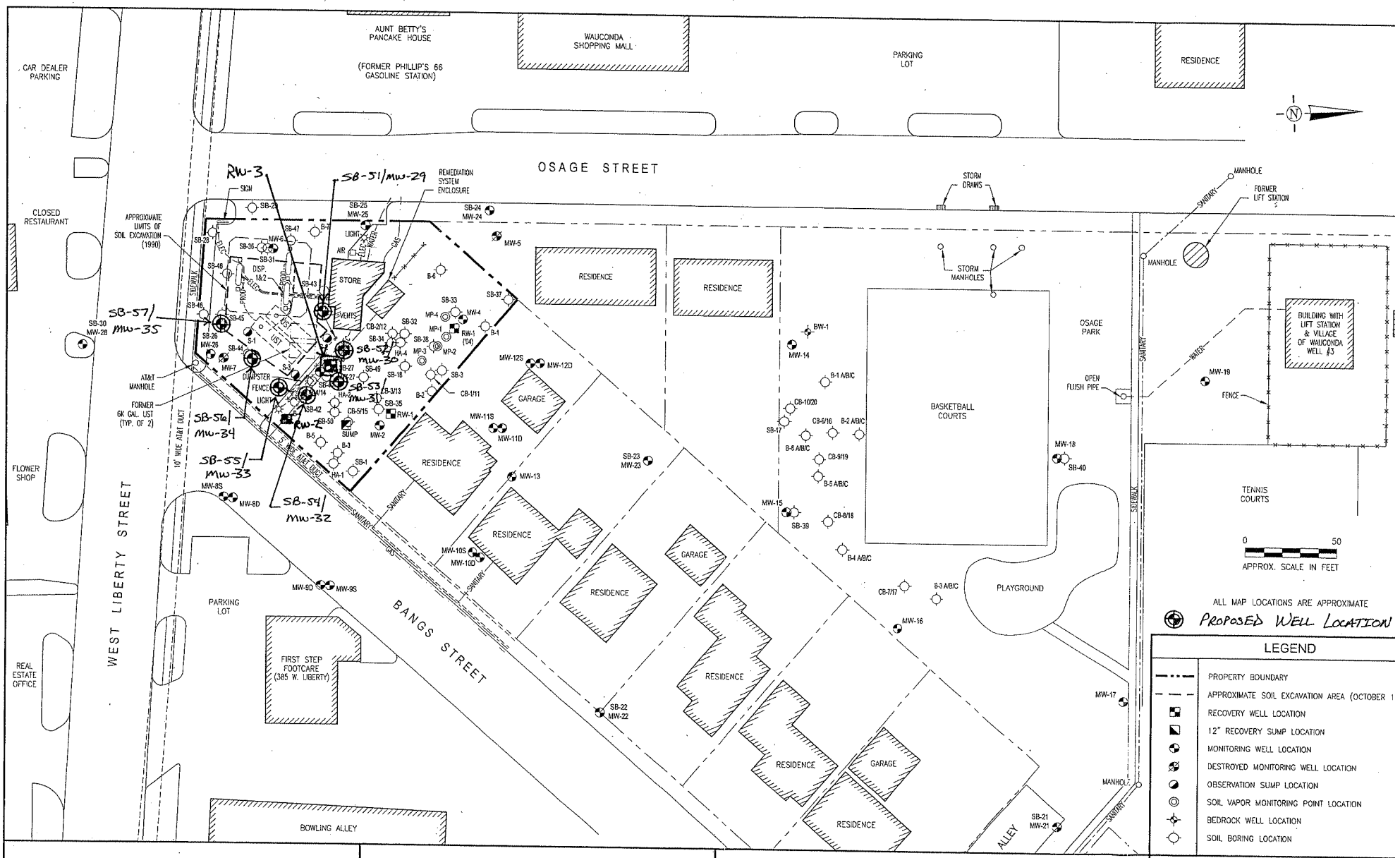
I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan, budget, or report 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

Name: Shawn Rodeck
Company: TriCore Environmental, LLC
Address: 1800 W. Hawthorne Ln., Suite P
City: West Chicago
State: Illinois
ZIP Code: 60185
Phone: (630) 520-9973
Ill. Registration No.: 062-052879
License Expiration Date: 11/30/09
Signature: Shawn Rodeck
Date: 03/05/09

L.P.E. or L.P.G. Seal

FIGURES



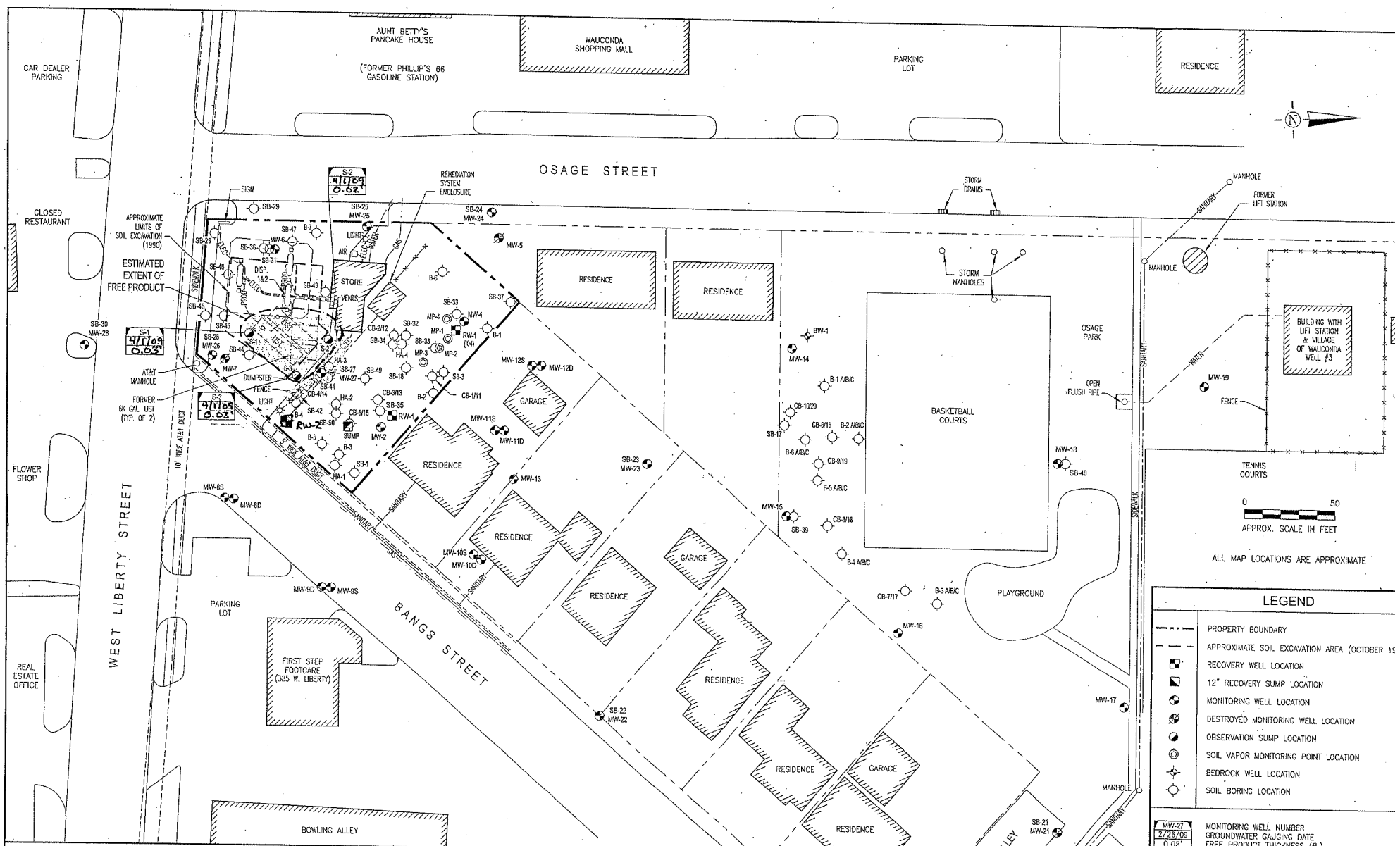
TriCore Environmental, LLC
1800 West Hawthorne Lane, Suite P
West Chicago, Illinois 60185
(630) 520-9973

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

SITE MAP
SHIVAM ENERGY, INC.
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

DRAWN BY:	MWS
APPROVED BY:	SAR
SCALE:	1" = 50'
DATE:	2/27/09
DRAWING FILE:	0401SM1E

FIGUR
1



TriCore Environmental, LLC
1800 West Hawthorne Lane, Suite P
West Chicago, Illinois 60185
(630) 520-9973

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

FREE PRODUCT THICKNESS MAP
SHIVAM ENERGY, INC.
399 WEST LIBERTY STREET
WAUCONDA, LAKE COUNTY, ILLINOIS 60084

DRAWN BY:	MWS
APPROVED BY:	SAR
SCALE:	1" = 50'
DATE:	2/27/09
DRAWING FILE:	0401FPM1

FIGURE
2

TABLES

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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	29-Nov-90		10.00	10.30	0.30						
MW-2	27-Jan-92		FP								
MW-2	19-Feb-92		FP								
MW-2	24-Aug-92		FP								
MW-2	19-Jan-93		FP								
MW-2	17-Jun-93	101.06		10.71		90.35	**0.23**	**3.2**	0.65	**15**	
MW-2	11-Nov-93	101.06		10.96		90.10	**0.134**	0.01	0.052	1.43	
MW-2	27-Jun-94	101.06	10.95	10.96	0.01	90.11					
MW-2	16-Feb-95	101.06		10.36		90.70	**0.178**	0.0313	0.447	0.3	
MW-2	28-Jul-95	101.06		10.13		90.93	**0.257**	0.117	0.139	0.808	
MW-2	22-Mar-96	101.06		11.14		89.92	**0.1**	0.154	0.331	3.93	
MW-2	17-Jun-96	101.06		9.33		91.73	0.0029	0.0041	0.0107	0.355	
MW-2	25-Sep-96	101.06		10.68		90.38	0.0154	0.0167	0.0546	0.584	
MW-2	24-Apr-97	101.06		9.89		91.17	**1.11**	**3.1**	**0.71**	5.76	
MW-2	17-Jun-97	101.06		9.88		91.18	**2.57**	**3.85**	0.487	5.53	
MW-2	27-Aug-97	101.06		10.48		90.58	**0.116**	0.519	0.534	7.45	
MW-2	5-Nov-97	113.61		10.75		102.86	**0.076**	0.02	0.31	2.4	
MW-2	27-Feb-98	113.61		10.23		103.38	**0.17**	0.029	0.074	0.73	
MW-2	10-Jun-98	113.61		10.08		103.53	**0.0079**	0.0011	0.0075	0.15	
MW-2	8-Oct-98	113.61		10.31		103.30	**0.013**	0.019	0.18	1.38	
MW-2	31-Mar-99	113.61		10.12		103.49	**0.64**	0.024	0.087	**250/<5**	
MW-2	9-Jun-99	113.61		10.00		103.61	**0.77**	0.22	0.075	0.62	
MW-2	2-Sep-99	113.61		10.60		103.01	**0.086**	0.0076	0.029	0.066	
MW-2	28-Oct-99	113.61		10.52		103.09	**0.16**	0.0025	0.016	0.041	
MW-2	23-Feb-00	113.61		10.32		103.29	**0.55**	0.019	0.27	0.861	
MW-2	24-May-00	113.61		9.77		103.84	**0.09**	0.11	0.11	1.37	
MW-2	15-Aug-00	113.61		10.21		103.40	**0.36**	0.13	0.054	0.41	
MW-2	9-Nov-00	113.61		10.03		103.58	**0.14**	0.099	0.12	0.96	
MW-2	11-Oct-01	113.61		10.24		103.37	**0.027**	0.036	0.02	0.142	
MW-2	14-Mar-02	113.61		9.85		103.76	**0.083**	0.012	0.13	0.72	
MW-2	6-Jun-02	113.61		9.62		103.99	**0.1**	0.052	0.32	3.08	
MW-2	30-Aug-02	113.61		10.16		103.45	**0.017**	0.0058	0.073	0.448	
MW-2	6-Dec-02	113.61		10.62		102.99	**0.012**	<0.001	0.003	0.0031/<0.001	
MW-2	6-May-04	113.61		10.34		103.27	**0.031**	0.0014	0.0046	0.003	<0.01
MW-2	21-Apr-05	113.61		10.17		103.44	**0.035**	<0.001	0.0022	0.029	0.024
MW-2	31-Dec-08	113.61		9.58		104.03					
MW-2	5-Jan-09	113.61		9.84		103.77					
MW-2	6-Jan-09	113.61					Obstruction in well, not able to collect samples				
MW-4	28-Nov-90						3.5	0.33	0.27	1.1	
MW-4	27-Jan-92						3.1	0.065	0.072	4.147	
MW-4	24-Aug-92						**0.14**	0.024	0.19	0.49	
MW-4	19-Jan-93						**0.26**	0.006	BDL	0.021	
MW-4	17-Jun-93	98.97		8.22		90.75	**0.015**	<0.001	<0.001	0.005	
MW-4	11-Nov-93	98.97		8.58		90.39	<0.001	<0.001	<0.001	<0.001	
MW-4	27-Jun-94	98.97		8.65		90.32	**0.154**	0.0243	0.0081	0.0098	
MW-4	16-Feb-95	98.97		8.24		90.73	**0.253**	0.113	0.0845	0.202	
MW-4	28-Jul-95	98.97		8.06		90.91	**0.179**	0.0115	0.175	0.261	
MW-4	22-Mar-96	98.97		8.75		90.22	**0.363**	0.346	0.178	0.456	
MW-4	17-Jun-96	98.97		5.79		93.18	<0.002	<0.002	<0.002	<0.005	
MW-4	25-Sep-96	98.97		8.44		90.53	0.0032	<0.002	0.0052	0.0052	
MW-4	24-Apr-97	98.97		7.84		91.13	**0.444**	0.0255	0.0945	0.11	
MW-4	17-Jun-97	98.97		6.87		92.10	**0.386**	0.0359	0.125	0.273	
MW-4	27-Aug-97	98.97		8.23		90.74	**0.0568**	0.0321	0.128	0.322	
MW-4	5-Nov-97	111.44		8.54		102.90	**0.037**	0.0035	0.043	0.11	
MW-4	27-Feb-98	111.44		7.98		103.46	**0.13**	<0.005	<0.005	0.04	
MW-4	10-Jun-98	111.44		7.94		103.50	**0.029**	0.019	0.022	0.052	
MW-4	8-Oct-98	111.44		8.52		102.92	**0.018**	0.0024	0.033	0.1/<0.001	
MW-4	31-Mar-99	111.44		8.07		103.37	<0.001	<0.001	<0.001	<0.003	
MW-4	9-Jun-99	111.44		8.07		103.37	**0.36**	0.028	0.28	0.8228	
MW-4	2-Sep-99	111.44		9.50		101.94	**0.18**	0.017	0.28	1.1/<0.005	
MW-4	28-Oct-99	111.44		8.44		103.00	**0.073**	0.0046	0.095	0.360/<0.004	
MW-4	23-Feb-00	111.44		8.17		103.27	**0.57**	<0.005	0.042	0.061/<0.005	
MW-4	24-May-00	111.44		7.69		103.75	**0.095**	0.0057	0.01	0.0089/<0.001	
MW-4	15-Aug-00	111.44		8.10		103.34	**0.36**	0.022	0.13	0.140/<0.0025	
MW-4	9-Nov-00	111.44		7.97		103.47	**0.16**	<0.025	0.13	0.064/<0.005	
MW-4	11-Oct-01	111.44		8.11		103.33	**0.039**	0.005	0.03	0.013/<0.001	
MW-4	14-Mar-02	111.44		7.68		103.76	**0.13**	0.0049	<0.001	<0.003	

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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	6-Jun-02	111.44		7.35		104.09	**0.013**	<0.001	0.0058	0.0025/<0.001	
MW-4	30-Aug-02	111.44		8.05		103.39	**0.14**	0.013	0.035	0.031/<0.001	
MW-4	6-Dec-02	111.44		8.53		102.91	**0.17**	0.004	0.0016	0.016/<0.001	
MW-4	6-May-04	111.44		8.25		103.19	Obstruction in well, not able to collect samples				
MW-4	21-Apr-05	111.44		8.07		103.37	**0.14**	0.003	<0.001	0.0035	0.0011
MW-4	5-Jan-09	111.44		7.64		103.80					
MW-4	6-Jan-09	111.44					Obstruction in well, not able to collect samples				
MW-5	28-Nov-90						<0.005	<0.005	<0.005	<0.01	
MW-5	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-5	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-5	19-Jan-93						BDL	BDL	BDL	BDL	
MW-5	17-Jun-93	95.44		4.71		90.73	<0.001	<0.001	<0.001	<0.001	
MW-5	11-Nov-93	95.44		5.09		90.35	<0.001	<0.001	<0.001	<0.001	
MW-5	27-Jun-94	95.44		5.31		90.13	<0.001	<0.001	<0.001	<0.003	
MW-5	16-Feb-95	95.44		4.81		90.63	<0.002	<0.002	<0.002	<0.005	
MW-5	28-Jul-95	95.44		4.99		90.45	<0.0073	<0.002	<0.002	<0.005	
MW-5	22-Mar-96	95.44		5.28		90.16	<0.002	<0.002	<0.002	<0.005	
MW-5	17-Jun-96	95.44		4.24		91.20	<0.002	<0.002	<0.002	<0.005	
MW-5	25-Sep-96	95.44		5.07		90.37	<0.002	<0.002	<0.002	<0.005	
MW-5	24-Apr-97	95.44		4.40		91.04	<0.002	<0.002	<0.002	<0.005	
MW-5	17-Jun-97	95.44		4.34		91.10	<0.002	<0.002	<0.002	<0.003	
MW-5	27-Aug-97	95.44		4.84		90.60	<0.002	<0.002	<0.002	<0.003	
MW-5	5-Nov-97	108.15		5.21		102.94	<0.001	<0.001	<0.01	<0.003	
MW-5	27-Feb-98	108.15		4.58		103.57	<0.001	<0.001	<0.001	<0.003	
MW-5	10-Jun-98	108.15		4.53		103.62	<0.001	<0.001	<0.001	<0.003	
MW-5	8-Oct-98	108.15		4.78		103.37	<0.001	<0.001	<0.001	<0.003	
MW-5	31-Mar-99	108.15		4.76		103.39	0.053	0.07	0.11	0.38	
MW-5	9-Jun-99	108.15		4.65		103.50	<0.001	<0.001	<0.001	<0.003	
MW-5	2-Sep-99	108.15		5.34		102.81	<0.001	<0.001	<0.001	<0.002	
MW-5	28-Oct-99	108.15		5.19		102.96	<0.001	<0.001	<0.001	<0.003	
MW-5	23-Feb-00	108.15		4.92		103.23					
MW-5	24-May-00	108.15		4.34		103.81	<0.001	<0.001	<0.001	<0.003	
MW-5	15-Aug-00	108.15		4.81		103.34	<0.001	<0.001	<0.001	<0.003	
MW-5	9-Nov-00	108.15		4.75		103.40	<0.001	<0.001	<0.001	<0.003	
MW-5	11-Oct-01	108.15		4.80		103.35	<0.001	<0.001	<0.001	<0.003	
MW-5	14-Mar-02	108.15		4.41		103.74	<0.001	<0.001	<0.001	<0.003	
MW-5	6-Jun-02	108.15		4.63		103.52	<0.001	<0.001	<0.001	<0.003	
MW-5	30-Aug-02	108.15		4.75		103.40	<0.001	<0.001	<0.001	<0.003	
MW-5	6-Dec-02	108.15		5.24		102.91	<0.001	<0.001	<0.001	<0.003	
MW-5	6-May-04						Well destroyed				
MW-6	28-Nov-90						<0.005	<0.005	<0.005	<0.01	
MW-6	27-Jan-92										
MW-6	24-Aug-92										
MW-6	19-Jan-93						BDL	BDL	BDL	BDL	
MW-6	17-Jun-93	98.46		7.07		91.39	<0.001	<0.001	<0.001	<0.001	
MW-6	11-Nov-93	98.46		7.63		90.83	<0.001	<0.001	<0.001	<0.001	
MW-6	27-Jun-94	98.46		7.57		90.89	<0.001	<0.001	<0.001	<0.003	
MW-6	16-Feb-95	98.46		7.41		91.05	<0.002	<0.002	<0.002	<0.005	
MW-6	28-Jul-95	98.46		7.11		91.35	0.0045	<0.002	<0.002	<0.005	
MW-6	22-Mar-96	98.46		7.89		90.57	<0.002	<0.002	<0.002	<0.005	
MW-6	17-Jun-96	98.46		6.11		92.35	<0.002	<0.002	<0.002	<0.005	
MW-6	25-Sep-96	98.46		7.59		90.87	<0.002	<0.002	<0.002	<0.005	
MW-6	24-Apr-97	98.46		6.87		91.59	<0.002	<0.002	<0.002	<0.005	
MW-6	17-Jun-97	98.46		6.81		91.65	<0.002	<0.002	<0.002	<0.005	
MW-6	27-Aug-97	98.46		7.34		91.12	<0.002	<0.002	<0.002	<0.005	
MW-6	5-Nov-97	111.06		7.74		103.32	<0.001	<0.001	<0.002	<0.003	
MW-6	27-Feb-98	111.06		7.03		104.03	<0.001	<0.001	<0.001	<0.003	
MW-6	10-Jun-98	111.06		6.97		104.09	<0.001	<0.001	<0.001	<0.003	
MW-6	8-Oct-98	111.06		7.28		103.78	<0.001	<0.001	<0.001	<0.003	
MW-6	31-Mar-99	111.06		7.14		103.92	<0.001	<0.001	<0.001	<0.003	
MW-6	9-Jun-99	111.06		6.95		104.11	<0.001	<0.001	<0.001	<0.003	
MW-6	2-Sep-99	111.06		7.71		103.35	<0.001	<0.001	<0.001	<0.002	
MW-6	28-Oct-99	111.06		7.64		103.42	<0.001	<0.001	<0.001	<0.002	
MW-6	23-Feb-00	111.06		7.42		103.64	<0.001	<0.001	<0.001	<0.003	
MW-6	24-May-00	111.06		6.68		104.38	<0.001	<0.001	<0.001	<0.003	
MW-6	15-Aug-00	111.06		7.25		103.81	**0.58**	**3.1**	0.55	2.49	
MW-6	9-Nov-00	111.06		7.11		103.95	**0.069**	1	0.35	2.3	

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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-Oct-01	111.06	sheen	7.39		103.67					
MW-6	14-Mar-02	111.06	sheen	6.93		104.13	0.0029	0.002	0.015	0.032	
MW-6	6-Jun-02	111.06	sheen	6.70		104.36	0.0017	0.0016	0.012	0.0256	
MW-6	30-Aug-02	111.06	sheen	7.27		103.79	0.0015	0.0011	0.1	0.0245	
MW-6	6-Dec-02	111.06	sheen	7.83		103.23	<0.001	<0.001	0.0041	0.0099	
MW-6	6-May-04	111.06	sheen	7.45		103.61	<0.001	<0.001	0.001	<0.003	<0.001
MW-6	21-Apr-05	111.06		7.26		103.80					
MW-6	22-Apr-05						<0.001	<0.001	<0.001	<0.003	<0.001
MW-6	29-Dec-08	111.06		6.67		104.39					
MW-6	5-Jan-09	111.06		7.06		104.00					
MW-6	6-Jan-09	111.06					<0.001	<0.001	<0.001	<0.003	<0.001
MW-7	29-Nov-90		7.39	7.69	0.30						
MW-7	21-Apr-05						Well destroyed				
MW-8S	1-Apr-91	86.88		6.61		80.27	<0.005	<0.005	<0.005	<0.01	
MW-8S	27-Jan-92						<0.002	<0.003	<0.002	<0.01	
MW-8S	24-Aug-92						<0.002	<0.003	<0.002	<0.007	
MW-8S	19-Jan-93										
MW-8S	17-Jun-93	98.29		7.56		90.73	<0.001	<0.001	<0.001	<0.001	
MW-8S	11-Nov-93	98.29		7.58		90.71	<0.001	<0.001	<0.001	<0.001	
MW-8S	27-Jun-94	98.29		7.46		90.83	<0.001	<0.001	<0.001	<0.003	
MW-8S	16-Feb-95	98.29		7.43		90.86	<0.002	<0.002	<0.002	<0.005	
MW-8S	28-Jul-95	98.29		7.14		91.15	<0.0034	<0.002	<0.002	<0.005	
MW-8S	22-Mar-96	98.29		7.73		90.56	<0.002	<0.002	<0.002	<0.005	
MW-8S	17-Jun-96	98.29		6.46		91.83	<0.002	<0.002	<0.002	<0.005	
MW-8S	25-Sep-96	98.29		7.49		90.80	<0.002	<0.002	<0.002	<0.005	
MW-8S	24-Apr-97	98.29		6.94		91.35	<0.002	<0.002	<0.002	<0.005	
MW-8S	17-Jun-97	98.29		6.86		91.43	<0.002	<0.002	<0.002	<0.005	
MW-8S	27-Aug-97	98.29		7.26		91.03	<0.002	<0.002	<0.002	<0.005	
MW-8S	5-Nov-97	110.89		7.62		103.27	<0.001	<0.001	<0.001	<0.003	
MW-8S	27-Feb-98	110.89		7.50		103.39	<0.001	<0.001	<0.001	<0.003	
MW-8S	10-Jun-98	110.89		6.95		103.94	<0.001	<0.001	<0.001	<0.001	
MW-8S	8-Oct-98	110.89		7.19		103.70	<0.001	<0.001	<0.001	<0.003	
MW-8S	31-Mar-99	110.89		7.12		103.77	<0.001	<0.001	<0.001	<0.003	
MW-8S	9-Jun-99	110.89		7.00		103.89	<0.001	<0.001	<0.001	<0.003	
MW-8S	2-Sep-99	110.89		7.61		103.28	<0.001	<0.001	<0.001	<0.002	
MW-8S	28-Oct-99	110.89		7.56		103.33	<0.001	<0.001	<0.001	<0.002	
MW-8S	23-Feb-00	110.89		7.48		103.41	<0.001	0.0024	<0.001	<0.0041	
MW-8S	24-May-00	110.89		6.77		104.12	<0.001	<0.001	<0.001	<0.003	
MW-8S	15-Aug-00	110.89		7.62		103.27	<0.001	<0.001	<0.001	<0.003	
MW-8S	9-Nov-00	110.89		7.20		103.69	<0.001	<0.001	<0.001	<0.003	
MW-8S	11-Oct-01	110.89		7.26		103.63	<0.001	<0.001	<0.001	<0.003	
MW-8S	14-Mar-02	110.89		6.91		103.98	<0.001	<0.001	<0.001	<0.003	
MW-8S	6-Jun-02	110.89		6.71		104.18	<0.001	<0.001	<0.001	<0.003	
MW-8S	30-Aug-02	110.89		7.18		103.71	<0.001	<0.001	<0.001	<0.003	
MW-8S	6-Dec-02	110.89		7.64		103.25	<0.001	<0.001	<0.001	<0.003	
MW-8S	6-May-04	110.89		7.39		103.50	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8S	21-Apr-05	110.89		7.22		103.67					
MW-8S	22-Apr-05						<0.001	<0.001	<0.001	<0.003	<0.001
MW-8S	5-Jan-09	110.89		6.97		103.92					
MW-8S	6-Jan-09	110.89		7.00		103.89	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8D	1-Apr-91	86.96		6.77		80.19	<0.005	<0.005	<0.005	<0.01	
MW-8D	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-8D	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-8D	19-Jan-93										
MW-8D	17-Jun-93										
MW-8D	11-Nov-93	98.31		7.50		90.81	<0.001	<0.001	<0.001	<0.001	
MW-8D	27-Jun-94	98.31		7.94		90.37	<0.001	<0.001	<0.001	<0.003	
MW-8D	16-Feb-95	98.31		7.80		90.51	<0.002	0.0039	<0.002	<0.005	
MW-8D	28-Jul-95	98.31		7.65		90.66	0.0023	<0.002	<0.002	0.0054	
MW-8D	22-Mar-96	98.31		8.06		90.25	<0.002	<0.002	<0.002	<0.005	
MW-8D	17-Jun-96	98.31		6.81		91.50	<0.002	<0.002	<0.002	<0.005	
MW-8D	25-Sep-96	98.31		7.55		90.76	<0.002	<0.002	<0.002	<0.005	
MW-8D	24-Apr-97	98.31		7.33		90.98	<0.002	<0.002	<0.002	<0.005	
MW-8D	17-Jun-97	98.31		7.32		90.99	<0.002	<0.002	<0.002	<0.005	
MW-8D	27-Aug-97	98.31		7.85		90.46	<0.002	<0.002	<0.002	<0.005	
MW-8D	5-Nov-97	111.03		8.06		102.97	<0.001	<0.001	<0.001	<0.003	
MW-8D	27-Feb-98	111.03		7.00		104.03	<0.001	<0.001	<0.001	<0.003	

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Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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	10-Jun-98	111.03		7.36		103.67	<0.001	<0.001	<0.001	<0.003	
MW-8D	8-Oct-98	111.03		7.67		103.36	<0.001	<0.001	<0.001	<0.003	
MW-8D	31-Mar-99	111.03		7.40		103.63	<0.001	<0.001	<0.001	<0.003	
MW-8D	9-Jun-99	111.03		7.10		103.93	<0.001	<0.001	<0.001	<0.003	
MW-8D	2-Sep-99	111.03		8.02		103.01	<0.001	<0.001	<0.001	<0.002	
MW-8D	28-Oct-99	111.03		7.95		103.08	<0.001	<0.001	<0.001	<0.002	
MW-8D	23-Feb-00	111.03		7.92		103.11	<0.001	<0.001	<0.001	<0.003	
MW-8D	24-May-00	111.03		7.01		104.02	<0.001	<0.001	<0.001	<0.003	
MW-8D	15-Aug-00	111.03		7.62		103.41	<0.001	<0.001	<0.001	<0.003	
MW-8D	9-Nov-00	111.03		7.72		103.31	<0.001	<0.005	<0.001	<0.003	
MW-8D	11-Oct-01	111.03		7.67		103.36	<0.001	<0.001	<0.001	<0.003	
MW-8D	14-Mar-02	111.03		7.28		103.75	<0.001	<0.001	<0.001	<0.003	
MW-8D	6-Jun-02	111.03		7.04		103.99	<0.001	<0.001	<0.001	<0.003	
MW-8D	30-Aug-02	111.03		7.51		103.52	<0.001	<0.001	<0.001	<0.003	
MW-8D	6-Dec-02	111.03		8.00		103.03	<0.001	<0.001	<0.001	<0.003	
MW-8D	6-May-04	111.03		7.70		103.33	<0.001	<0.001	<0.001	<0.003	<0.001
MW-8D	21-Apr-05	111.03		7.53		103.50					
MW-8D	22-Apr-05						<0.001	<0.001	<0.001	<0.003	<0.001
MW-8D	5-Jan-09	111.03		7.14		103.89					
MW-8D	6-Jan-09	111.03					<0.001	<0.001	<0.001	<0.003	<0.001
MW-9S	1-Apr-91	86.00		6.12		79.88	<0.005	<0.005	<0.005	<0.01	
MW-9S	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-9S	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-9S	19-Jan-93						BDL	BDL	BDL	BDL	
MW-9S	17-Jun-93	97.42		6.79		90.63	<0.001	<0.001	<0.001	<0.001	
MW-9S	11-Nov-93	97.42		7.04		90.38	<0.001	<0.001	<0.001	<0.001	
MW-9S	27-Jun-94	97.42		7.03		90.39	<0.001	<0.001	<0.001	<0.003	
MW-9S	16-Feb-95	97.42		7.04		90.38	<0.002	<0.002	<0.002	<0.005	
MW-9S	28-Jul-95	97.42		6.82		90.60	<0.002	<0.002	<0.002	<0.005	
MW-9S	22-Mar-96	97.42		7.32		90.10	<0.002	<0.002	<0.002	<0.005	
MW-9S	17-Jun-96	97.42		6.35		91.07	<0.002	<0.002	<0.002	<0.005	
MW-9S	25-Sep-96	97.42		7.10		90.32	<0.002	<0.002	<0.002	<0.005	
MW-9S	24-Apr-97	97.42		6.72		90.70	<0.002	<0.002	<0.002	<0.005	
MW-9S	17-Jun-97	97.42		6.74		90.68	<0.002	<0.002	<0.002	<0.005	
MW-9S	27-Aug-97	97.42		6.90		90.52	<0.002	<0.002	<0.001	<0.005	
MW-9S	5-Nov-97	110.16		7.21		102.95	<0.001	<0.001	<0.001	<0.003	
MW-9S	27-Feb-98	110.16		6.86		103.30	<0.001	<0.001	<0.001	<0.003	
MW-9S	10-Jun-98	110.16		6.67		103.49	<0.001	<0.001	<0.001	<0.003	
MW-9S	8-Oct-98	110.16		6.83		103.33	<0.001	<0.001	<0.001	<0.003	
MW-9S	31-Mar-99	110.16		6.90		103.26	<0.001	<0.001	<0.001	<0.003	
MW-9S	9-Jun-99	110.16		6.76		103.40	<0.001	<0.001	<0.001	<0.003	
MW-9S	2-Sep-99	110.16		7.26		102.90	<0.001	<0.001	<0.001	<0.003	
MW-9S	28-Oct-99	110.16		7.20		102.96	<0.001	<0.001	<0.001	<0.003	
MW-9S	23-Feb-00	110.16		7.90		102.26	<0.001	<0.001	<0.001	<0.003	
MW-9S	24-May-00	110.16		6.64		103.52	<0.001	<0.001	<0.001	<0.003	
MW-9S	15-Aug-00	110.16		6.93		103.23	<0.001	<0.001	<0.001	<0.003	
MW-9S	9-Nov-00	110.16		6.75		103.41	<0.001	<0.005	<0.001	<0.003	
MW-9S	11-Oct-01	110.16		6.96		103.20	<0.001	<0.001	<0.001	<0.003	
MW-9S	14-Mar-02	110.16		6.73		103.43	<0.001	<0.001	<0.001	<0.003	
MW-9S	6-Jun-02	110.96		6.52		104.44	<0.001	<0.001	<0.001	<0.003	
MW-9S	30-Aug-02	110.96		6.92		104.04	<0.001	<0.001	<0.001	<0.003	
MW-9S	6-Dec-02	110.96		7.27		103.69	<0.001	<0.001	<0.001	<0.003	
MW-9S	6-May-04	110.96		7.12		103.84	<0.001	<0.001	<0.001	<0.003	<0.001
MW-9S	21-Apr-05	110.96		6.95		104.01					
MW-9S	22-Apr-05						<0.001	<0.001	<0.001	<0.003	<0.001
MW-9S	6-Jan-09						Obstruction in well, not able to gauge or collect samples				
MW-9D	1-Apr-91	86.06		6.26		79.80	<0.005	<0.005	<0.005	<0.01	
MW-9D	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-9D	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-9D	19-Jan-93										
MW-9D	17-Jun-93										
MW-9D	11-Nov-93	97.48		7.13		90.35	<0.001	<0.001	<0.001	<0.001	
MW-9D	27-Jun-94	97.48		7.13		90.35	<0.001	<0.001	<0.001	<0.003	
MW-9D	16-Feb-95	97.48		7.15		90.33	<0.002	<0.002	<0.002	<0.005	
MW-9D	28-Jul-95	97.48		6.92		90.56	<0.002	<0.002	<0.002	<0.005	
MW-9D	22-Mar-96	97.48		7.42		90.06	<0.002	<0.002	<0.002	<0.005	
MW-9D	17-Jun-96	97.48		6.44		91.04	<0.002	<0.002	<0.002	<0.005	

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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	25-Sep-96	97.48		7.19		90.29	<0.002	<0.002	<0.002	<0.005	
MW-9D	24-Apr-97	97.48		6.84		90.64	<0.002	<0.002	<0.002	<0.005	
MW-9D	17-Jun-97	97.48		6.79		90.69	<0.002	<0.002	<0.002	<0.005	
MW-9D	27-Aug-97	97.48		7.02		90.46	<0.002	<0.002	<0.002	<0.005	
MW-9D	5-Nov-97	110.26		7.32		102.94	<0.001	<0.001	<0.001	<0.003	
MW-9D	27-Feb-98	110.26		6.74		103.52	<0.001	<0.001	<0.001	<0.003	
MW-9D	10-Jun-98	110.26		6.79		103.47	<0.001	<0.001	<0.001	<0.003	
MW-9D	8-Oct-98	110.26		6.93		103.33	<0.001	<0.001	<0.001	<0.003	
MW-9D	31-Mar-99	110.26		7.01		103.25	<0.001	<0.001	<0.001	<0.003	
MW-9D	9-Jun-99	110.26		6.87		103.39	<0.001	<0.001	<0.001	<0.003	
MW-9D	2-Sep-99	110.26		7.41		102.85	<0.001	<0.001	<0.001	<0.003	
MW-9D	28-Oct-99	110.26		7.31		102.95	<0.001	<0.001	<0.001	<0.003	
MW-9D	23-Feb-00	110.26		7.10		103.16	<0.001	<0.001	<0.001	<0.003	
MW-9D	24-May-00	110.26		6.74		103.52	<0.001	<0.001	<0.001	<0.003	
MW-9D	15-Aug-00	110.26		7.07		103.19	<0.001	<0.001	<0.001	<0.003	
MW-9D	9-Nov-00	110.26		6.90		103.36	<0.001	<0.001	<0.001	<0.003	
MW-9D	11-Oct-01	110.26		7.05		103.21	<0.001	<0.001	<0.001	<0.003	
MW-9D	14-Mar-02	110.26		6.83		103.43	<0.001	<0.001	<0.001	<0.003	
MW-9D	6-Jun-02	110.26		6.62		103.64	<0.001	<0.001	<0.001	<0.003	
MW-9D	30-Aug-02	110.26		7.04		103.22	<0.001	<0.001	<0.001	<0.003	
MW-9D	6-Dec-02	110.26		7.38		102.88	<0.001	<0.001	<0.001	<0.003	
MW-9D	6-May-04	110.26		7.21		103.05	<0.001	<0.001	<0.001	<0.003	<0.001
MW-9D	21-Apr-05	110.26		7.04		103.22					
MW-9D	22-Apr-05						<0.001	<0.001	<0.001	<0.003	<0.001
MW-9D	5-Jan-09	110.26		6.91		103.35					
MW-9D	6-Jan-09	110.26					<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	1-Apr-91	85.93		5.28		80.65	<0.005	<0.005	<0.005	<0.010	
MW-10S	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-10S	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-10S	19-Jan-93						BDL	BDL	BDL	BDL	
MW-10S	17-Jun-93	96.38		5.91		90.47	<0.001	<0.001	<0.001	<0.001	
MW-10S	11-Nov-93	96.38		6.12		90.26	<0.001	<0.001	<0.001	<0.001	
MW-10S	27-Jun-94	96.38		6.11		90.27	<0.001	<0.001	<0.001	<0.003	
MW-10S	16-Feb-95	96.38		6.08		90.30	<0.002	<0.002	<0.002	<0.005	
MW-10S	28-Jul-95	96.38		5.84		90.54	<0.002	<0.002	<0.002	<0.005	
MW-10S	22-Mar-96	96.38		6.33		90.05	<0.002	<0.002	<0.002	<0.005	
MW-10S	17-Jun-96	96.38		5.26		91.12	<0.002	<0.002	<0.002	<0.005	
MW-10S	25-Sep-96	96.38		6.09		90.29	<0.002	<0.002	<0.002	<0.005	
MW-10S	24-Apr-97	96.38		5.73		90.65	<0.002	<0.002	<0.002	<0.005	
MW-10S	17-Jun-97	96.38		5.64		90.74	<0.002	<0.002	<0.002	<0.005	
MW-10S	27-Aug-97	96.38		5.90		90.48	0.0126	<0.002	<0.002	<0.005	
MW-10S	5-Nov-97	108.99		6.19		102.80	<0.001	<0.001	<0.001	<0.003	
MW-10S	27-Feb-98	108.99		5.77		103.22	<0.001	<0.001	<0.001	<0.003	
MW-10S	10-Jun-98	108.99		5.66		103.33	<0.001	<0.001	<0.001	<0.003	
MW-10S	8-Oct-98	108.99		5.83		103.16	<0.001	<0.001	<0.001	<0.003	
MW-10S	31-Mar-99	108.99		5.95		103.04	<0.001	<0.001	<0.001	<0.003	
MW-10S	9-Jun-99	108.99		5.76		103.23	<0.001	<0.001	<0.001	<0.003	
MW-10S	2-Sep-99	108.99		6.21		102.78	<0.001	<0.001	<0.001	<0.003	
MW-10S	28-Oct-99	108.99		6.30		102.69	<0.001	<0.001	<0.001	<0.003	
MW-10S	23-Feb-00	108.99		6.06		102.93	<0.001	<0.001	<0.001	<0.003	
MW-10S	24-May-00	108.99		5.68		103.31	<0.001	<0.001	<0.001	<0.003	
MW-10S	15-Aug-00	108.99		5.94		103.05	<0.001	<0.001	<0.001	<0.003	
MW-10S	9-Nov-00	108.99		5.90		103.09	<0.001	<0.005	<0.001	<0.003	
MW-10S	11-Oct-01	108.99		5.94		103.05	<0.001	<0.001	<0.001	<0.003	
MW-10S	14-Mar-02	108.99		5.79		103.20	<0.001	<0.001	<0.001	<0.003	
MW-10S	6-Jun-02	108.99		5.55		103.44	<0.001	<0.001	<0.001	<0.003	
MW-10S	30-Aug-02	108.99		5.91		103.08	<0.001	<0.001	<0.001	<0.003	
MW-10S	6-Dec-02	108.99		6.24		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10S	6-May-04	108.99		6.15		102.84	<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	21-Apr-05	108.99		5.97		103.02					
MW-10S	22-Apr-05						<0.001	<0.001	<0.001	<0.003	<0.001
MW-10S	5-Jan-09	108.99		5.69		103.30					
MW-10S	6-Jan-09	108.99					<0.001	<0.001	<0.001	<0.003	<0.001
MW-10D	1-Apr-91	85.06		5.62		79.44	<0.005	<0.005	<0.005	<0.010	
MW-10D	27-Jan-92						0.005	<0.002	<0.002	<0.005	
MW-10D	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-10D	19-Jan-93										

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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-10D	17-Jun-93										
MW-10D	11-Nov-93	96.31		6.21		90.10	<0.001	<0.001	<0.001	<0.001	
MW-10D	27-Jun-94	96.31		6.23		90.08	<0.001	<0.001	<0.001	<0.003	
MW-10D	16-Feb-95	96.31		6.15		90.16	<0.002	<0.002	<0.002	<0.005	
MW-10D	28-Jul-95	96.31		5.90		90.41	<0.002	<0.002	<0.002	<0.005	
MW-10D	22-Mar-96	96.31		6.42		89.89	<0.002	<0.002	<0.002	<0.005	
MW-10D	17-Jun-96	96.31		5.27		91.04	<0.002	<0.002	<0.002	<0.005	
MW-10D	25-Sep-96	96.31		6.17		90.14	<0.002	<0.002	<0.002	<0.005	
MW-10D	24-Apr-97	96.31		5.77		90.54	<0.002	<0.002	<0.002	<0.005	
MW-10D	17-Jun-97	96.31		5.74		90.57	<0.002	<0.002	<0.002	<0.005	
MW-10D	27-Aug-97	96.31		6.83		89.48	<0.002	<0.002	<0.002	<0.005	
MW-10D	5-Nov-97	108.93		6.13		102.80	<0.001	<0.001	<0.001	<0.003	
MW-10D	27-Feb-98	108.93		5.71		103.22	<0.001	<0.001	<0.001	<0.003	
MW-10D	10-Jun-98	108.93		5.61		103.32	<0.001	<0.001	<0.001	<0.003	
MW-10D	8-Oct-98	108.93		6.79		102.14	<0.001	<0.001	<0.001	<0.003	
MW-10D	31-Mar-99	108.93		5.90		103.03	<0.001	<0.001	<0.001	<0.003	
MW-10D	9-Jun-99	108.93		5.81		103.12	<0.001	<0.001	<0.001	<0.003	
MW-10D	2-Sep-99	108.93		6.18		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10D	28-Oct-99	108.93		6.18		102.75	<0.001	<0.001	<0.001	<0.003	
MW-10D	23-Feb-00	108.93		6.10		102.83	<0.001	<0.001	<0.001	<0.003	
MW-10D	24-May-00	108.93		5.55		103.38	<0.001	<0.001	<0.001	<0.003	
MW-10D	15-Aug-00	108.93		5.91		103.02	<0.001	<0.001	<0.001	<0.003	
MW-10D	9-Nov-00	108.93		5.80		103.13	<0.001	<0.005	<0.001	<0.003	
MW-10D	11-Oct-01	108.93		5.90		103.03	<0.001	<0.001	<0.001	<0.003	
MW-10D	14-Mar-02	108.93		5.74		103.19	<0.001	<0.001	<0.001	<0.003	
MW-10D	6-Jun-02	108.93		5.52		103.41	<0.001	<0.001	<0.001	<0.003	
MW-10D	30-Aug-02	108.93		5.85		103.08	<0.001	<0.001	<0.001	<0.003	
MW-10D	6-Dec-02	108.93		6.22		102.71	<0.001	<0.001	<0.001	<0.003	
MW-10D	6-May-04	108.93		6.09		102.84	<0.001	<0.001	<0.001	<0.003	0.0055
MW-10D	21-Apr-05	108.93		5.94		102.99					
MW-10D	22-Apr-05						<0.001	<0.001	<0.001	<0.003	0.0041
MW-10D	5-Jan-09	108.93		5.62		103.31					
MW-10D	6-Jan-09	108.93					<0.001	<0.001	<0.001	<0.003	<0.001
MW-11S	1-Apr-91	85.82		5.52		80.30	**0.15**	<0.005	<0.005	0.011	
MW-11S	27-Jan-92						**3.6**	0.021	0.18	4.491	
MW-11S	24-Aug-92						**0.006**	0.029	0.006	0.81	
MW-11S	19-Jan-93						**1.3**	0.007	0.03	0.1	
MW-11S	17-Jun-93	96.99		6.01		90.98	**0.14**	<0.001	<0.001	<0.001	
MW-11S	11-Nov-93	96.99		6.80		90.19	**1.35**	<0.001	<0.001	<0.001	
MW-11S	27-Jun-94	96.99		6.84		90.15	**0.785**	0.0094	0.173	0.282	
MW-11S	16-Feb-95	96.99		6.53		90.46	**1.55**	0.0248	0.163	0.239	
MW-11S	28-Jul-95	96.99		6.42		90.57	**0.954**	0.0545	0.316	0.29	
MW-11S	22-Mar-96	96.99				96.99					
MW-11S	17-Jun-96	96.99		4.43		92.56	<0.002	<0.002	<0.002	<0.005	
MW-11S	25-Sep-96	96.99		6.77		90.22	**1.76**	0.0443	0.519	1.22	
MW-11S	24-Apr-97	96.99		6.12		90.87	**0.384**	0.0087	0.134	2.1	
MW-11S	17-Jun-97	96.99		6.11		90.88	**3.94**	**1.02**	**0.734**	2.06	
MW-11S	27-Aug-97	96.99		6.58		90.41	**1.79**	0.586	0.657	1.2	
MW-11S	5-Nov-97	109.54		6.85		102.69	**1**	0.05	0.37	0.023	
MW-11S	27-Feb-98	109.54		6.58		102.96	**0.19**	<0.005	0.033	0.11	
MW-11S	10-Jun-98	109.54		6.29		103.25	**0.8**	0.014	0.12	<0.001	
MW-11S	8-Oct-98	109.54		6.49		103.05	**0.91**	0.03	0.4	0.76	
MW-11S	31-Mar-99	109.54		6.42		103.12	**0.28**	<0.002	0.04	0.012/<0.002	
MW-11S	9-Jun-99	109.54		6.40		103.14	**3.7**	**6.7**	**0.73**	2.77	
MW-11S	2-Sep-99	109.54		7.16		102.38	**1.4**	0.029	0.43	1.34	
MW-11S	28-Oct-99	109.54		6.84		102.70	**0.78**	0.038	0.31	0.889	
MW-11S	23-Feb-00	109.54		6.25		103.29	0.0028	<0.001	<0.001	<0.003	
MW-11S	24-May-00	109.54		6.05		103.49	**0.018**	<0.001	0.0011	<0.003	
MW-11S	15-Aug-00	109.54		6.62		102.92	**1.3**	0.051	0.42	1.116	
MW-11S	9-Nov-00	109.54		6.35		103.19	**0.37**	<0.025	0.03	0.097/<0.005	
MW-11S	11-Oct-01	109.54		6.56		102.98	**0.78**	<0.021	0.44	0.95/<0.01	
MW-11S	14-Mar-02	109.54		5.89		103.65	**0.024**	<0.001	<0.001	<0.003	
MW-11S	6-Jun-02	109.54		5.43		104.11	**0.073**	0.0036	0.012	0.0077/<0.001	
MW-11S	30-Aug-02	109.54		6.52		103.02	**1.2**	0.051	0.55	0.86/<0.01	
MW-11S	6-Dec-02	109.54		6.88		102.66	**2.1**	0.045	0.67	0.26/<0.02	
MW-11S	6-May-04	109.54		6.59		102.95	**0.059**	<0.001	<0.001	<0.003	<0.001
MW-11S	21-Apr-05	109.54		6.38		103.16	**0.012**	<0.001	<0.001	<0.003	<0.001

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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	6-Jan-09	109.54		5.65		103.89	<0.001	<0.001	<0.001	<0.003	<0.001
MW-11D	1-Apr-91	85.90		6.57		79.33	<0.005	<0.005	<0.005	<0.01	
MW-11D	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-11D	24-Aug-92						<0.004	<0.002	<0.002	<0.005	
MW-11D	19-Jan-93										
MW-11D	17-Jun-93										
MW-11D	11-Nov-93	97.02		6.81		90.21	<0.001	<0.001	<0.001	<0.001	
MW-11D	27-Jun-94	97.02		6.95		90.07	**0.248**	0.0028	0.0637	0.135	
MW-11D	16-Feb-95	97.02		6.70		90.32	**0.433**	0.0058	0.0407	0.0446	
MW-11D	28-Jul-95	97.02		6.49		90.53	**0.94**	0.0386	0.219	0.215	
MW-11D	22-Mar-96	97.02		7.07		89.95	**0.424**	0.0075	0.0467	0.0191	
MW-11D	17-Jun-96	97.02		6.12		90.90	**0.0482**	<0.002	<0.002	<0.005	
MW-11D	25-Sep-96	97.02		6.89		90.13	**0.392**	0.0077	0.104	0.204	
MW-11D	24-Apr-97	97.02		6.31		90.71	**0.339**	0.131	0.0807	0.184	
MW-11D	17-Jun-97	97.02		6.32		90.70	**1.56**	0.368	0.278	0.956	
MW-11D	27-Aug-97	97.02		7.84		89.18	**0.311**	0.0167	0.0837	0.224	
MW-11D	5-Nov-97	109.58		7.13		102.45	**0.17**	0.0045	0.09	0.29	
MW-11D	27-Feb-98	109.58		6.23		103.35	**0.024**	<0.001	<0.001	<0.003	
MW-11D	10-Jun-98	109.58		6.52		103.06	**0.02**	<0.001	<0.001	<0.003	
MW-11D	8-Oct-98	109.58		6.76		102.82	**0.12**	0.004	0.038	0.044	
MW-11D	31-Mar-99	109.58		6.90		102.68	0.0034	<0.001	<0.001	<0.003	
MW-11D	9-Jun-99	109.58		6.64		102.94	**0.75**	**1.4**	0.14	0.53	
MW-11D	2-Sep-99	109.58		7.22		102.36	**0.082**	0.0048	0.037	0.1225	
MW-11D	28-Oct-99	109.58		7.10		102.48	**0.077**	0.0023	0.035	0.1	
MW-11D	23-Feb-00	109.58		6.91		102.67	**0.16**	0.0012	0.0098	0.1	
MW-11D	24-May-00	109.58		6.49		103.09	0.0011	<0.001	<0.001	<0.003	
MW-11D	15-Aug-00	109.58		7.04		102.54	**0.014**	<0.001	0.0053	0.011	
MW-11D	9-Nov-00	109.58		6.95		102.63	**0.26**	<0.012	0.027	0.059	
MW-11D	11-Oct-01	109.58		6.83		102.75	**0.017**	<0.001	0.0035	<0.003	
MW-11D	14-Mar-02	109.58		6.42		103.16	<0.001	<0.001	<0.001	<0.003	
MW-11D	6-Jun-02	109.58		6.33		103.25	<0.001	<0.001	<0.001	<0.003	
MW-11D	30-Aug-02	109.58		6.74		102.84	**0.035**	<0.001	0.0012	<0.003	
MW-11D	6-Dec-02	109.58		7.09		102.49	0.001	<0.001	<0.001	<0.003	
MW-11D	6-May-04	109.58		6.80		102.78	**0.008**	<0.001	<0.001	<0.003	0.0025
MW-11D	21-Apr-05	109.58		6.63		102.95	<0.001	<0.001	<0.001	<0.003	<0.001
MW-11D	6-Jan-09	109.58		6.26		103.32	<0.001	<0.001	<0.001	<0.003	0.0017
MW-12S	1-Apr-91	81.23		2.21		79.02	**1.8**	0.14	0.11	0.4	
MW-12S	27-Jan-92						**0.041**	0.002	0.013	0.054	
MW-12S	24-Aug-92						**0.2**	0.002	0.004	0.005	
MW-12S	19-Jan-93						BDL	BDL	BDL	BDL	
MW-12S	17-Jun-93	92.64		2.60		90.04	0.003	<0.001	<0.001	<0.001	
MW-12S	11-Nov-93	92.64		2.45		90.19	<0.001	<0.001	<0.001	<0.001	
MW-12S	27-Jun-94	92.64		2.52		90.12	**0.137**	<0.001	<0.001	<0.003	
MW-12S	16-Feb-95	92.64		2.25		90.39	**0.0902**	<0.002	<0.002	<0.005	
MW-12S	28-Jul-95	92.64		2.10		90.54	**0.0137**	<0.002	<0.002	<0.005	
MW-12S	22-Mar-96	92.64		2.62		90.02	<0.002	<0.002	<0.002	<0.005	
MW-12S	17-Jun-96	92.64		1.50		91.14	<0.002	<0.002	<0.002	<0.005	
MW-12S	25-Sep-96	92.64		2.36		90.28	<0.002	<0.002	<0.002	<0.005	
MW-12S	24-Apr-97	92.64		1.89		90.75	<0.002	<0.002	<0.002	<0.005	
MW-12S	17-Jun-97	92.64		1.76		90.88	<0.002	<0.002	<0.002	<0.005	
MW-12S	27-Aug-97	92.64		2.24		90.40	<0.002	<0.002	<0.002	<0.005	
MW-12S	5-Nov-97	105.19		2.50		102.69	0.0026	<0.001	<0.001	<0.003	
MW-12S	27-Feb-98	105.19		2.56		102.63	<0.001	<0.001	<0.001	<0.003	
MW-12S	10-Jun-98	105.19		1.90		103.29	<0.001	<0.001	<0.001	<0.003	
MW-12S	8-Oct-98	105.19		2.17		103.02	<0.001	<0.001	<0.001	<0.003	
MW-12S	31-Mar-99	105.19		2.29		102.90	<0.001	<0.001	<0.001	<0.003	
MW-12S	9-Jun-99	105.19		2.13		103.06	**0.07**	<0.001	<0.001	<0.003	
MW-12S	2-Sep-99	105.19		3.75		101.44	<0.001	<0.001	<0.001	<0.002	
MW-12S	28-Oct-99	105.19		2.58		102.61	**0.16**	0.0045	0.0043	0.005	
MW-12S	23-Feb-00	105.19		2.33		102.86	**0.054**	0.0021	0.011	0.012	
MW-12S	24-May-00	105.19		1.92		103.27	**0.13**	0.0034	0.015	0.017	
MW-12S	15-Aug-00	105.19		2.23		102.96	**0.24**	0.016	0.053	0.059	
MW-12S	9-Nov-00	105.19		2.15		103.04	**0.27**	0.037	0.12	0.2133	
MW-12S	11-Oct-01	105.19		2.32		102.87	**0.11**	0.013	0.12	0.1224	
MW-12S	14-Mar-02	105.19		1.98		103.21	**0.18**	0.0075	0.041	0.121	
MW-12S	6-Jun-02	105.19		1.80		103.39	**0.18**	0.023	0.042	0.0061	
MW-12S	30-Aug-02	105.19		2.20		102.99	**0.2**	0.027	0.077	0.1817	

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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	6-Dec-02	105.19		2.58		102.61	**0.051**	0.006	0.017	0.079	
MW-12S	6-May-04	105.19		2.40		102.79	**0.043**	0.0035	<0.001	0.022	0.0012
MW-12S	21-Apr-05	105.19		2.20		102.99	**0.027**	0.0014	<0.001	0.0097	0.0021
MW-12S	29-Dec-08	105.19		1.00		104.19					
MW-12S	5-Jan-09	105.19		1.84		103.35					
MW-12S	6-Jan-09	105.19					<0.001	<0.001	<0.001	<0.003	<0.001
MW-12D	1-Apr-91	81.36		2.21		79.15	**0.074**	<0.005	<0.005	<0.01	
MW-12D	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-12D	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-12D	19-Jan-93										
MW-12D	17-Jun-93										
MW-12D	11-Nov-93	92.79		2.57		90.22	<0.001	<0.001	<0.001	<0.001	
MW-12D	27-Jun-94	92.79		3.38		89.41	<0.001	<0.001	<0.001	<0.003	
MW-12D	16-Feb-95	92.79		2.85		89.94	<0.002	<0.002	<0.002	<0.005	
MW-12D	28-Jul-95	92.79		2.60		90.19	<0.002	<0.002	<0.002	<0.005	
MW-12D	22-Mar-96	92.79		3.15		89.64	<0.002	<0.002	<0.002	<0.005	
MW-12D	17-Jun-96	92.79		2.08		90.71	<0.002	<0.002	<0.002	<0.005	
MW-12D	25-Sep-96	92.79		2.93		89.86	<0.002	<0.002	<0.002	<0.005	
MW-12D	24-Apr-97	92.79		2.30		90.49	<0.002	<0.002	<0.002	<0.005	
MW-12D	17-Jun-97	92.79		2.29		90.50	<0.002	<0.002	<0.002	<0.005	
MW-12D	27-Aug-97	92.79		2.75		90.04	<0.002	<0.002	<0.002	<0.005	
MW-12D	5-Nov-97	105.34		3.13		102.21	<0.001	<0.001	<0.001	<0.003	
MW-12D	27-Feb-98	105.34		1.97		103.37	<0.001	<0.001	<0.001	<0.003	
MW-12D	10-Jun-98	105.34		2.47		102.87	<0.001	<0.001	<0.001	<0.003	
MW-12D	8-Oct-98	105.34		2.86		102.48	<0.001	<0.001	<0.001	<0.003	
MW-12D	31-Mar-99	105.34		2.77		102.57	<0.001	<0.001	<0.001	<0.003	
MW-12D	9-Jun-99	105.34		2.68		102.66	<0.001	<0.001	<0.001	<0.003	
MW-12D	2-Sep-99	105.34		3.31		102.03	<0.001	<0.001	<0.001	<0.002	
MW-12D	28-Oct-99	105.34		3.20		102.14	<0.001	<0.001	<0.001	<0.002	
MW-12D	23-Feb-00	105.34		3.00		102.34	<0.001	<0.001	<0.001	<0.003	
MW-12D	24-May-00	105.34		2.49		102.85	<0.001	<0.001	<0.001	<0.003	
MW-12D	15-Aug-00	105.34		2.82		102.52	<0.001	<0.001	<0.001	<0.003	
MW-12D	9-Nov-00	105.34		2.75		102.59	<0.001	<0.001	<0.001	<0.003	
MW-12D	11-Oct-01	105.34		2.82		102.52	<0.001	<0.001	<0.001	<0.003	
MW-12D	14-Mar-02	105.34		2.50		102.84	<0.001	<0.001	<0.001	<0.003	
MW-12D	6-Jun-02	105.34		2.34		103.00	<0.001	<0.001	<0.001	<0.003	
MW-12D	30-Aug-02	105.34		2.81		102.53	<0.001	<0.001	<0.001	<0.003	
MW-12D	6-Dec-02	105.34		3.20		102.14	<0.001	<0.001	<0.001	<0.003	
MW-12D	6-May-04	105.34		2.96		102.38	<0.001	<0.001	<0.001	<0.003	<0.001
MW-12D	21-Apr-05	105.34		3.73		101.61	<0.001	<0.001	<0.001	<0.03	<0.001
MW-12D	5-Jan-09	105.34		2.31		103.03					
MW-12D	6-Jan-09	105.34					<0.001	<0.001	<0.001	<0.003	<0.001
MW-13	1-Apr-91	85.19		5.24		79.95	**2.6**	0.3	0.19	0.56	
MW-13	27-Jan-92										
MW-13	19-Feb-92						**1.9**	0.01	0.14	0.72	
MW-13	24-Aug-92						**14**	**2.1**	**0.85**	**13**	
MW-13	19-Jan-93						**0.009**	BDL	BDL	0.005	
MW-13	17-Jun-93	96.50		6.00		90.50	<0.001	<0.001	<0.001	<0.001	
MW-13	11-Nov-93	96.50		6.28		90.22	**0.81**	0.054	0.346	4.56	
MW-13	27-Jun-94	96.50		6.29		90.21	**0.142**	0.0037	0.119	0.413	
MW-13	16-Feb-95	96.50		6.20		90.30	**0.0475**	<0.002	0.0202	0.129	
MW-13	28-Jul-95	96.50		6.01		90.49	**0.41**	0.0051	0.56	2.548	
MW-13	22-Mar-96	96.50		6.53		89.97	**0.212**	0.0092	0.0901	0.973	
MW-13	17-Jun-96	96.50		3.78		92.72	<0.002	<0.002	<0.002	<0.005	
MW-13	25-Sep-96	96.50		6.29		90.21	**0.109**	0.0261	**0.911**	9.6	
MW-13	24-Apr-97	96.50		5.80		90.70	<0.002	<0.002	<0.002	<0.005	
MW-13	17-Jun-97	96.50		5.59		90.91	**0.0195**	<0.002	0.0201	0.107	
MW-13	27-Aug-97	96.50		6.17		90.33	**1.4**	0.38	0.361	3.65	
MW-13	5-Nov-97	109.12		6.38		102.74	**0.16**	<0.025	0.67	5.8	
MW-13	27-Feb-98	109.12		5.51		103.61	<0.001	<0.001	<0.001	<0.003	
MW-13	10-Jun-98	109.12		5.78		103.34	**0.38**	<0.025	0.67	3.4	
MW-13	8-Oct-98	109.12		6.02		103.10	**<0.025**	<0.025	0.28	3.5	
MW-13	31-Mar-99	109.12		6.17		102.95	**0.027**	<0.0025	0.11	0.81	
MW-13	9-Jun-99	109.12		6.07		103.05	**0.008**	0.013	0.13	0.903.3	
MW-13	2-Sep-99	109.12		6.64		102.48	**0.23**	<0.025	0.12	0.72	
MW-13	28-Oct-99	109.12		6.45		102.67	**0.2**	<0.01	0.11	0.718	
MW-13	23-Feb-00	109.12		5.50		103.62					

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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	24-May-00	109.12		5.91		103.21	**0.0073**	<0.001	0.0019	0.021	
MW-13	15-Aug-00	109.12		6.24		102.88	**0.038**	<0.005	0.3	0.5453	
MW-13	9-Nov-00	109.12		6.08		103.04	<0.001	<0.005	0.0014	<0.003	
MW-13	11-Oct-01	109.12		6.21		102.91	**0.05**	0.0023	0.069	0.0122	
MW-13	14-Mar-02	109.12		5.89		103.23	<0.001	<0.001	<0.001	<0.003	
MW-13	6-Jun-02	109.12		5.06		104.06	**0.0077**	<0.001	0.009	<0.003	
MW-13	30-Aug-02	109.12		6.15		102.97	**0.013**	0.0018	0.03	0.0024	
MW-13	6-Dec-02	109.12		6.53		102.59	**0.044**	<0.01	0.085	<0.03	
MW-13	6-May-04	109.12		6.37		102.75	0.0039	<0.001	0.013	<0.003	<0.001
MW-13	21-Apr-05	109.12		6.27		102.85					
MW-13	22-Apr-05	109.12					**0.0077**	<0.001	0.039	0.013	<0.001
MW-13	29-Dec-08	109.12		5.00		104.12					
MW-13	5-Jan-09	109.12		5.88		103.24					
MW-13	6-Jan-09	109.12					<0.001	<0.001	<0.001	<0.003	<0.001
MW-14	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-14	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-14	19-Jan-93						BDL	BDL	BDL	BDL	
MW-14	17-Jun-93	89.62		0.00		89.62	<0.001	<0.001	<0.001	<0.001	
MW-14	11-Nov-93	89.62		0.00		89.62	<0.001	<0.001	<0.001	<0.001	
MW-14	27-Jun-94	89.62		0.00		89.62	<0.001	<0.001	<0.001	<0.003	
MW-14	16-Feb-95	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	28-Jul-95	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	22-Mar-96	89.62				89.62					
MW-14	17-Jun-96	89.62		0.03		89.59	<0.002	<0.002	<0.002	<0.005	
MW-14	25-Sep-96	89.62		0.05		89.57	<0.002	<0.002	<0.002	<0.005	
MW-14	24-Apr-97	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	17-Jun-97	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	27-Aug-97	89.62		0.00		89.62	<0.002	<0.002	<0.002	<0.005	
MW-14	5-Nov-97	99.46		0.79		98.67	<0.001	<0.001	<0.001	<0.003	
MW-14	27-Feb-98	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	10-Jun-98	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	8-Oct-98	99.46		0.09		99.37	<0.001	<0.001	<0.001	<0.003	
MW-14	31-Mar-99	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	9-Jun-99	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	2-Sep-99	99.46		0.19		99.27	<0.001	<0.001	<0.001	<0.003	
MW-14	28-Oct-99	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	23-Feb-00	99.46		0.00		99.46	<0.001	<0.001	<0.001	<0.003	
MW-14	24-May-00			0.00			<0.001	<0.001	<0.001	<0.003	
MW-14	15-Aug-00			0.00			<0.001	<0.001	<0.001	<0.003	
MW-14	9-Nov-00			0.00			<0.001	<0.001	<0.001	<0.003	
MW-14	11-Oct-01	99.16		0.02		99.14	<0.001	<0.001	<0.001	<0.003	
MW-14	14-Mar-02	99.16		0.02		99.14	<0.001	<0.001	<0.001	<0.003	
MW-14	6-Jun-02	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	
MW-14	30-Aug-02	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	
MW-14	6-Dec-02	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	
MW-14	6-May-04	99.16		0.00		99.16	<0.001	<0.001	<0.001	<0.003	<0.001
MW-14	21-Apr-05	99.16		0.00		99.16					
MW-14	22-Apr-05	99.16					<0.001	<0.001	<0.001	<0.003	<0.001
MW-14	5-Jan-09	99.16		0.30		98.86					
MW-14	6-Jan-09	99.16					<0.001	<0.001	<0.001	<0.003	<0.001
MW-15	27-Jan-92						0.005	<0.002	<0.002	<0.005	
MW-15	24-Aug-92						**0.03**	<0.002	<0.002	<0.005	
MW-15	19-Jan-93						**0.24**	BDL	BDL	BDL	
MW-15	17-Jun-93	88.40		0.00		88.40	**0.85**	<0.001	<0.001	<0.001	
MW-15	11-Nov-93	88.40		0.56		87.84	**1.03**	<0.001	<0.001	<0.001	
MW-15	27-Jun-94	88.40		0.50		87.90	**2.04**	<0.001	<0.001	<0.003	
MW-15	16-Feb-95	88.40		0.85		87.55	**1.82**	<0.002	<0.002	<0.005	
MW-15	28-Jul-95	88.40		0.20		88.20	**3.55**	<0.002	<0.002	<0.005	
MW-15	22-Mar-96	88.40		0.74		87.66	**10.5**	<0.002	<0.002	<0.005	
MW-15	17-Jun-96	88.40		0.00		88.40	**9.75**	<0.002	<0.002	<0.005	
MW-15	25-Sep-96	88.40		0.75		87.65	**7.6**	<0.002	<0.002	<0.005	
MW-15	24-Apr-97	88.40		0.16		88.24	**10.7**	0.0084	<0.002	<0.005	
MW-15	17-Jun-97	88.40		0.00		88.40	**9.59**	0.0381	<0.005	<0.005	
MW-15	27-Aug-97	88.40		0.40		88.00	**8.32**	<0.05	<0.05	<0.125	
MW-15	5-Nov-97	100.25		0.68		99.57	**8.2**	<0.05	<0.05	<0.15	
MW-15	27-Feb-98	100.25		0.22		100.03	**7.4**	<0.1	<0.1	<0.3	
MW-15	10-Jun-98	100.25		0.18		100.07	**6.9**	<0.1	<0.1	<0.3	

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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-15	8-Oct-98	100.25		0.43		99.82	5.4	<0.05	<0.05	<0.15	
MW-15	31-Mar-99	100.25		1.30		98.95	4.6	<0.025	<0.025	<0.075	
MW-15	9-Jun-99	100.25		1.20		99.05	4.2	0.032	<0.025	<0.075	
MW-15	2-Sep-99	100.25		1.55		98.70	2.9	0.036	0.034	0.079	
MW-15	28-Oct-99	100.25		1.44		98.81	2.5	0.049	0.078	0.165	
MW-15	23-Feb-00	100.25		0.90		99.35	1.2	0.045	0.091	0.2	
MW-15	24-May-00	100.25		0.71		99.54	0.97	0.034	0.11	0.255	
MW-15	15-Aug-00	100.25		0.86		99.39	0.58	0.024	0.12	0.264	
MW-15	9-Nov-00	100.25		0.75		99.50	0.13	0.0074	0.027	0.055	
MW-15	11-Oct-01	100.25		0.84		99.41	0.2	0.012	0.062	0.1125	
MW-15	14-Mar-02	100.25		0.62		99.63	0.21	0.011	0.055	0.0993	
MW-15	6-Jun-02	100.25		0.47		99.78	0.17	0.0055	0.033	0.0688	
MW-15	30-Aug-02	100.25		0.83		99.42	0.22	0.0073	0.04	0.0628	
MW-15	6-Dec-02	100.25		1.11		99.14	0.24	0.0062	0.031	0.0394	
MW-15	6-May-04	100.25		0.95		99.30	0.12	0.004	0.0023	0.0063	<0.001
MW-15	21-Apr-05	100.25		0.79		99.46					
MW-15	22-Apr-05	100.25					0.076	0.0024	<0.001	0.0045	<0.001
MW-15	5-Jan-09	100.25		0.40		99.85					
MW-15	6-Jan-09	100.25					0.0739	0.004	<0.001	0.0135	0.004
MW-16	27-Jan-92						<0.002	<0.002	<0.002	<0.005	
MW-16	24-Aug-92						<0.002	<0.002	<0.002	<0.005	
MW-16	19-Jan-93						BDL	BDL	BDL	BDL	
MW-16	17-Jun-93	91.82		2.23		89.59	<0.001	<0.001	<0.001	<0.001	
MW-16	11-Nov-93	91.82		2.47		89.35	<0.001	<0.001	<0.001	<0.001	
MW-16	27-Jun-94	91.82		2.59		89.23	<0.001	<0.001	<0.001	<0.003	
MW-16	16-Feb-95	91.82		2.60		89.22	0.0103	<0.002	<0.002	<0.005	
MW-16	28-Jul-95	91.82		2.44		89.38	0.182	<0.002	<0.002	<0.005	
MW-16	22-Mar-96	91.82		3.14		88.68	1.83	<0.002	<0.002	<0.005	
MW-16	17-Jun-96	91.82		1.63		90.19	2.08	<0.002	<0.002	<0.005	
MW-16	25-Sep-96	91.82		2.38		89.44	2.19	<0.002	<0.002	<0.005	
MW-16	24-Apr-97	91.82		7.95		83.87	3.53	<0.002	<0.002	<0.005	
MW-16	17-Jun-97	91.82		4.49		87.33	3.6	<0.002	<0.002	<0.005	
MW-16	27-Aug-97	91.82		5.51		86.31	4.17	0.219	<0.05	0.197	
MW-16	5-Nov-97	101.72		7.75		93.97	3.9	<0.025	<0.025	<0.075	
MW-16	27-Feb-98	101.72		6.28		95.44	4.2	<0.050	<0.05	<0.15	
MW-16	10-Jun-98	101.72		2.36		99.36	3.3	<0.050	<0.05	<0.15	
MW-16	8-Oct-98	101.72		2.55		99.17	5.1	<0.025	<0.025	<0.075	
MW-16	31-Mar-99	101.72		3.47		98.25	4	<0.025	<0.025	<0.075	
MW-16	9-Jun-99	101.72		3.30		98.42	4.6	<0.050	<0.05	<0.15	
MW-16	2-Sep-99	101.72		3.75		97.97	4.4	<0.050	<0.05	<0.1	
MW-16	28-Oct-99	101.72		3.50		98.22	4.4	<0.020	<0.02	<0.04	
MW-16	23-Feb-00	101.72		3.05		98.67	3.3	<0.025	<0.025	<0.075	
MW-16	24-May-00	101.72		2.91		98.81	2.6	<0.025	<0.025	<0.050	
MW-16	15-Aug-00	101.72		3.07		98.65	1.7	<0.010	<0.01	<0.03	
MW-16	9-Nov-00	101.72		3.11		98.61	1.5	<0.050	<0.01	<0.03	
MW-16	11-Oct-01	101.72		3.06		98.66	0.35	<0.050	<0.0025	<0.0075	
MW-16	14-Mar-02	101.72		2.75		98.97	0.017	<0.001	<0.001	<0.003	
MW-16	6-Jun-02	101.72		2.65		99.07	0.2	<0.002	<0.002	<0.006	
MW-16	30-Aug-02	101.72		2.97		98.75	0.13	<0.001	<0.001	<0.003	
MW-16	6-Dec-02	101.72		3.21		98.51	0.12	<0.001	<0.001	<0.003	
MW-16	6-May-04	101.72		3.07		98.65	0.049	<0.001	<0.001	<0.003	0.0034
MW-16	21-Apr-05	101.72		2.95		98.77					
MW-16	22-Apr-05	101.72					0.045	<0.001	<0.001	<0.003	0.0032
MW-16	5-Jan-09	101.72		2.58		99.14					
MW-16	6-Jan-09	101.72					0.0191	<0.001	<0.001	<0.003	<0.001
MW-17	5-Nov-97	100.91		2.05		98.86	<0.001	<0.001	<0.001	<0.003	
MW-17	27-Feb-98	100.91		1.63		99.28	<0.001	<0.001	<0.001	<0.003	
MW-17	10-Jun-98	100.91		1.58		99.33	<0.001	<0.001	<0.001	<0.003	
MW-17	8-Oct-98	100.91		1.87		99.04	<0.001	<0.001	<0.001	<0.003	
MW-17	31-Mar-99	100.91		2.29		98.62	<0.001	<0.001	<0.001	<0.003	
MW-17	9-Jun-99	100.91		2.15		98.76	<0.001	<0.001	<0.001	<0.003	
MW-17	2-Sep-99	100.91		2.65		98.26	<0.001	<0.001	<0.001	<0.002	
MW-17	28-Oct-99	100.91		2.54		98.37	<0.001	<0.001	<0.001	<0.002	
MW-17	23-Feb-00	100.91		2.04		98.87	<0.001	<0.001	<0.001	<0.003	
MW-17	24-May-00	100.91		1.81		99.10	<0.001	<0.001	<0.001	<0.002	
MW-17	15-Aug-00	100.91		2.07		98.84	<0.001	<0.001	<0.001	<0.003	
MW-17	9-Nov-00	100.91		1.98		98.93	<0.001	<0.005	<0.001	<0.003	

TABLE 1

Groundwater Elevation and Analytical Results

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

Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							0.025	2.5	1	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-17	11-Oct-01	100.91		2.14		98.77	<0.001	<0.001	<0.001	<0.003	
MW-17	14-Mar-02	100.91		1.81		99.10	<0.001	<0.001	<0.001	<0.003	
MW-17	6-Jun-02	100.91		1.59		99.32	0.0024	<0.001	<0.001	<0.003	
MW-17	30-Aug-02	100.91		2.01		98.90	<0.001	<0.001	<0.001	<0.003	
MW-17	6-Dec-02	100.91		2.34		98.57	<0.001	<0.001	<0.001	<0.003	
MW-17	6-May-04	100.91		2.13		98.78	0.0011	<0.001	<0.001	<0.003	0.053
MW-17	21-Apr-05	100.91		1.99		98.92					
MW-17	22-Apr-05	100.91					0.0041	<0.001	<0.001	<0.003	0.057
MW-17	5-Jan-09	100.91		1.48		99.43					
MW-17	6-Jan-09	100.91					<0.001	<0.001	<0.001	<0.003	0.0128
MW-18	5-Nov-97	99.19		5.32		93.87	<0.001	<0.001	<0.001	<0.003	
MW-18	27-Feb-98	99.19		2.63		96.56	<0.001	<0.001	<0.001	<0.003	
MW-18	10-Jun-98	99.19		2.85		96.34	<0.001	<0.001	<0.001	<0.003	
MW-18	8-Oct-98	99.19		6.37		92.82	<0.001	<0.001	<0.001	<0.003	
MW-18	31-Mar-99	99.19		2.81		96.38	<0.001	<0.001	<0.001	<0.003	
MW-18	9-Jun-99	99.19		2.46		96.73	<0.001	<0.001	<0.001	<0.003	
MW-18	2-Sep-99	99.19		4.73		94.46	<0.001	<0.001	<0.001	<0.003	
MW-18	28-Oct-99	99.19		3.95		95.24	<0.001	<0.001	<0.001	<0.003	
MW-18	23-Feb-00	99.19		3.25		95.94	<0.001	<0.001	<0.001	<0.003	
MW-18	24-May-00	99.19		2.34		96.85	<0.001	<0.001	<0.001	<0.003	
MW-18	15-Aug-00	99.19		2.98		96.21	<0.001	<0.001	<0.001	<0.003	
MW-18	9-Nov-00	99.19		3.35		95.84	<0.001	<0.005	<0.001	<0.003	
MW-18	11-Oct-01	99.19		3.42		95.77	<0.001	<0.001	<0.001	<0.003	
MW-18	14-Mar-02	99.19		2.40		96.79	<0.001	<0.001	<0.001	<0.003	
MW-18	6-Jun-02	99.19		2.33		96.86	<0.001	<0.001	<0.001	<0.003	
MW-18	30-Aug-02	99.19		3.50		95.69	<0.001	<0.001	<0.001	<0.003	
MW-18	6-Dec-02	99.19		3.54		95.65	<0.001	<0.001	<0.001	<0.003	
MW-18	6-May-04	99.19		2.83		96.36	<0.001	<0.001	<0.001	<0.003	<0.001
MW-18	21-Apr-05	99.19		2.73		96.46					
MW-18	22-Apr-05	99.19					<0.001	<0.001	<0.001	<0.003	<0.001
MW-18	5-Jan-09	99.19		2.34		96.85					
MW-18	6-Jan-09	99.19					<0.001	<0.001	<0.001	<0.003	<0.001
MW-19	19-Oct-01	100.62		5.42		95.20	<0.001	<0.001	<0.001	<0.003	
MW-19	14-Mar-02	100.62		3.70		96.92	<0.001	<0.001	<0.001	<0.003	
MW-19	6-Jun-02	100.62		2.90		97.72	<0.001	<0.001	<0.001	<0.003	
MW-19	30-Aug-02	100.62		4.85		95.77	<0.001	<0.001	<0.001	<0.003	
MW-19	6-Dec-02	100.62		5.71		94.91	<0.001	<0.001	<0.001	<0.003	
MW-19	3-May-04	100.62		4.10		96.52	<0.001	<0.001	<0.001	<0.003	<0.001
MW-19	21-Apr-05	100.62		3.77		96.85					
MW-19	22-Apr-05	100.62					<0.001	<0.001	<0.001	<0.003	<0.001
MW-19	5-Jan-09	100.62		3.33		97.29					
MW-19	6-Jan-09	100.62					<0.001	<0.001	<0.001	<0.003	<0.001
BW-1	19-Jan-93						BDL	BDL	BDL	BDL	
BW-1	17-Jun-93						<0.001	<0.001	<0.001	<0.001	
BW-1	11-Jan-93						<0.001	<0.001	<0.001	<0.001	
BW-1	27-Jun-94						<0.001	<0.001	<0.001	<0.003	
BW-1	16-Feb-95						<0.002	<0.002	<0.002	<0.005	
BW-1	28-Jul-95						<0.002	<0.002	<0.002	<0.005	
BW-1	22-Mar-96						<0.002	<0.002	<0.002	<0.005	
BW-1	27-Feb-98										
BW-1	11-Oct-01	99.08		27.34		71.74	<0.001	<0.001	<0.001	<0.003	
BW-1	14-Mar-02	99.08		25.56		73.52	<0.001	<0.001	<0.001	<0.003	
BW-1	6-Jun-02	99.08		30.36		68.72	<0.001	<0.001	<0.001	<0.003	
BW-1	30-Aug-02	99.08		28.25		70.83	<0.001	<0.001	<0.001	<0.003	
BW-1	6-Dec-02	99.08		26.61		72.47	<0.001	<0.001	<0.001	<0.003	
BW-1	6-May-04	99.08					Not able to open, manhole needs to be repaired				
RW-1 ('04)	21-Apr-05	108.01		4.58		103.43	**0.44**	0.0097	0.028	0.11	0.01
RW-1 ('04)	29-Dec-08	108.01		2.42		105.59					
RW-1 ('04)	5-Jan-09	108.01		3.93		104.08					
MP-1	21-Apr-05	108.51		5.09		103.42	**0.49**	0.013	<0.0025	0.015	0.0096
MP-1	6-Jan-09	108.51					**0.0301**	0.0011	0.0021	<0.003	0.001
MP-2	21-Apr-05	108.72		5.31		103.41	**0.23**	0.0095	0.14	0.2	0.0077
MP-3	21-Apr-05	109.30		5.89		103.41	**0.13**	0.65	0.13	1.2	0.011
MP-3	29-Dec-08	109.30		5.17		104.13					
MP-4	21-Apr-05	109.33		5.89		103.44	**0.24**	0.014	<0.001	0.013	0.0061
MW-21	21-Apr-05	102.43		8.79		93.64					
MW-21	22-Apr-05	102.43					<0.001	<0.001	<0.001	<0.003	<0.001

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Tier 1 Exposure Routes							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
GCGIER - Class II Groundwater							**0.025**	**2.5**	**1**	**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-21	5-Jan-09	102.43		6.12		96.31					
MW-21	6-Jan-09	102.43					<0.001	<0.001	<0.001	<0.003	<0.001
MW-22	21-Apr-05	107.15		4.62		102.53					
MW-22	22-Apr-05	107.15					<0.001	<0.001	<0.001	<0.003	<0.001
MW-22	6-Jan-09	107.15		4.34		102.81	<0.001	<0.001	<0.001	<0.003	<0.001
MW-23	21-Apr-05	104.89		6.90		97.99					
MW-23	22-Apr-05	104.89					<0.001	<0.001	<0.001	<0.003	<0.001
MW-23	5-Jan-09	104.89		6.78		98.11					
MW-23	6-Jan-09	104.89					<0.001	<0.001	<0.001	<0.003	<0.001
MW-24	21-Apr-05	105.54		4.35		101.19	<0.001	<0.001	<0.001	<0.003	<0.001
MW-25	24-May-05	107.74		4.31		103.43	<0.001	<0.001	<0.001	<0.003	<0.001
MW-26	21-Apr-05	111.38		7.48		103.90					
MW-26	22-Apr-05	111.38					<0.001	<0.001	<0.001	<0.003	<0.001
MW-26	29-Dec-08	111.38		6.00		105.38					
MW-26	31-Dec-08	111.38		6.94		104.44					
MW-26	5-Jan-09	111.38		7.23		104.15					
MW-26	6-Jan-09	111.38					**0.0403**	0.0755	0.0048	0.0597	0.0017
MW-26	13-Mar-09	111.38		6.83		104.55					
MW-26	1-Apr-09	111.38		6.72							
MW-27	21-Apr-05	111.15		7.54		103.61	**0.048**	0.0095	0.15	0.68	0.016
MW-27	29-Dec-08	111.15		6.83	Sheen	104.32					
MW-27	31-Dec-08	111.15	6.97	7.03	0.06	104.17					
MW-27	5-Jan-09	111.15	7.25	7.35	0.10	103.88					
MW-27	9-Jan-09	111.15	7.29	7.39	0.10	103.84					
MW-27	27-Jan-09	111.15	7.59	7.72	0.13	103.53					
MW-27	30-Jan-09	111.15	7.66	7.68	0.02	103.49					
MW-27	26-Feb-09	111.15	7.28	7.36	0.08	103.85					
MW-27	9-Mar-09	111.15		6.5		104.65					
MW-27	13-Mar-09	111.15	6.82	6.825	0.005	104.33					
MW-27	1-Apr-09	111.15		6.71		104.44					
MW-28	21-Apr-05	112.55		8.10		104.45					
MW-28	22-Apr-05	112.55					<0.001	<0.001	<0.001	<0.003	<0.001
MW-28	5-Jan-09	112.55		7.80		110.83					
MW-28	6-Jan-09	112.55					<0.001	<0.001	<0.001	<0.003	<0.001
RW-1	6-Jan-09						**0.764**	<0.005	0.0052	<0.015	0.0118
RW-2	1-Apr-09			9.40							

Notes:
1) GCGIER = groundwater component of the groundwater ingestion exposure route
2) mg/L = milligrams per Liter; TOC = top-of-casing; BDL= concentration below the laboratory detection limit; FP = free product present
3) <0.005 = concentration less than the laboratory reporting limit
4) **Bold** = a concentration above the Tier 1 groundwater remediation objective(s) established in 35 Illinois Administrative Code Part 742
5) All groundwater samples were analyzed for and methyl tert-butyl ether (MTBE) and/or benzene, toluene, ethylbenzene, and total xylenes using United States Environmental Protection Agency Method 8020 or 8021B
6) Shading = not available, not applicable, or not present; Sheen = a sheen of free product was present on the groundwater
7) Groundwater elevations are relative to a site specific datum of 100 feet

TABLE 2

Free Product Recovery Volumes

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

Well ID	Recovery/Gauging Date	Depth to Free Product (feet below TOC)	Depth to Water (feet below TOC)	Free Product Thickness (feet)	Free Product Recovered (gallons)	Free Product and Groundwater Recovered (gallons)
MW-2	29-Nov-90	10.00	10.30	0.30		
MW-2	27-Jan-92	FP				
MW-2	19-Feb-92	FP				
MW-2	24-Aug-92	FP				
MW-2	19-Jan-93	FP				
MW-2	27-Jun-94	10.95	10.96	0.01		
MW-6	11-Oct-01	sheen	7.39			
MW-6	14-Mar-02	sheen	6.93			
MW-6	6-Jun-02	sheen	6.7			
MW-6	30-Aug-02	sheen	7.27			
MW-6	6-Dec-02	sheen	7.83			
MW-6	6-May-04	sheen	7.45			
MW-7	29-Nov-90	7.39	7.69	0.30		
S-1	31-Dec-08	6.15	6.19	0.04	15	2,500
S-1	5-Jan-09	6.95	7.00	0.05	0.01	4
S-1	9-Jan-09	6.95	6.99	0.04	10	2,000
S-1	27-Jan-09	7.78	7.87	0.09	10	2,100
S-1	30-Jan-09	8.83	8.87	0.04		
S-1	26-Feb-09	7.23	7.31	0.08	0.01	4
S-1	9-Mar-09	5.97	6.03	0.06	15	3,000
S-1	13-Mar-09	6.43	6.47	0.04	14	2,800
S-1	1-Apr-09	6.2	6.23	0.03	10	2,000
S-2	31-Dec-08	6.24	6.27	0.03	See S-1 Above	See S-1 Above
S-2	27-Jan-09	9.19	9.30	0.11	See S-1 Above	See S-1 Above
S-2	26-Feb-09	7.32	7.39	0.07	See S-1 Above	See S-1 Above
S-2	9-Mar-09	6.04	6.08	0.04	See S-1 Above	See S-1 Above
S-2	13-Mar-09	6.52	6.55	0.03	See S-1 Above	See S-1 Above
S-2	1-Apr-09	6.25	6.27	0.02	See S-1 Above	See S-1 Above
S-3	31-Dec-08	6.23	6.26	0.03	See S-1 Above	See S-1 Above
S-3	5-Jan-09	6.77	6.82	0.05	0.01	4
S-3	9-Jan-09	6.96	7.02	0.06	See S-1 Above	See S-1 Above
S-3	27-Jan-09	8.15	8.3	0.15	See S-1 Above	See S-1 Above
S-2	30-Jan-09	8.93	8.97	0.04		
S-3	26-Feb-09	7.32	7.39	0.07	See S-1 Above	See S-1 Above
S-3	9-Mar-09	6.04	6.10	0.06	See S-1 Above	See S-1 Above
S-3	13-Mar-09	6.51	6.54	0.03	See S-1 Above	See S-1 Above
S-3	1-Apr-09	6.26	6.29	0.03	See S-1 Above	See S-1 Above
MW-27	31-Dec-08	6.97	7.03	0.06	See S-1 Above	See S-1 Above
MW-27	5-Jan-09	7.25	7.35	0.1	0.01	4
MW-27	6-Jan-09	7.3	7.36	0.06	0.01	1
MW-27	9-Jan-09	7.29	7.39	0.1	See S-1 Above	See S-1 Above
MW-27	27-Jan-09	7.59	7.72	0.13	See S-1 Above	See S-1 Above
MW-27	30-Jan-09	7.66	7.68	0.02	See S-1 Above	See S-1 Above
MW-27	26-Feb-09	7.28	7.36	0.08	See S-1 Above	See S-1 Above
MW-27	13-Mar-09	6.82	6.825	0.005	See S-1 Above	See S-1 Above
				Totals:	74.05	14,417.0

Notes:
1) TOC = top-of-casing
2) Shading = not applicable or not present
3) See S-1 above indicates that the individual volumes of product and groundwater recovered for each well was not noted during that event. The total volumes recovered during that event are noted in S-1..

APPENDIX A

WASTE MANIFESTS

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number 043482510 1	2. Page 1 of	3. Emergency Response Phone (630) 289-0240	4. Manifest Tracking Number 003434758 JJK

GENERATOR

5. Generator's Name and Mailing Address
North Branch Environmental
7N 458 Rohrer Ave
Roselle, IL 60110
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: North Branch Environmental — U.S. EPA ID Number: ILD0[illegible]207

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors
701 W 47th Street
McCook, IL 60525 (708) 762-5119
U.S. EPA ID Number: 0311740001
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-Hazardous Liquid	001	TT	2500	P	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
86820
Work order 88319

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steve Magnabosco — Signature: [signature] — Month 12 Day 21 Year 12

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Steve Magnabosco — Signature: [signature] — Month 12 Day 21 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Lowell Auchenbaugh — Signature — Month 1 Day 2 Year [illegible]

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
043482310I		(630)529-0240	00343496I JJK

5. Generator's Name and Mailing Address: North Branch Environmental, 7 N 458 Garden ave, Roselle, Il 60172

Generator's Phone: (630)529-0240

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: North Branch Environmental — IDR103904611L — U.S. EPA ID Number: ILR000052977

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Ortek, 7601 W. 47th street, McCook, Il 60525

Facility's Phone: (708)762-5119

U.S. EPA ID Number: 0311740001

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-Hazardous Liquid	001	tt	200	g	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

Work order 3531

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.

I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month / Day / Year: 11 07 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ______

Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: [illegible] — Month / Day / Year: 1 7 09

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month / Day / Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month / Day / Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

[illegible]

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number 0434625101	2. Page 1 of	3. Emergency Response Phone (630)529-0240	4. Manifest Tracking Number 005349085 JJK

5. Generator's Name and Mailing Address
North Branch Environmental
7 N 458 Garden ave
Roselle, Il 60172 (630)529-0240
Generator's Phone:
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
North Branch Environmental UPM035046IIL
U.S. EPA ID Number ILR000052977

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Oriack
7601 W. 47th street
McCook, Il 60525 (708)780-5119
Facility's Phone:
U.S. EPA ID Number 0311740001

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-Hazardous Liquid Waste water	001	tt	2100	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
76986
Work order 57936

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tom Surecth — Signature: [signature] — Month 01 Day 27 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tom Surecth — Signature: [signature] — Month 01 Day 27 Year 09
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Lowell Naghenbaugh — Signature: [signature] — Month 1 Day 27 Year 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. TRANSPORTER'S COPY

From Mark Station 300 W Liberty St Wauconda IL 2100

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
0434825101		(630)529-0240	005349239 JJK

GENERATOR

5. Generator's Name and Mailing Address
North Branch Environmental
7 N 456 Garden ave
Roselle, IL 60172 (630)529-0240
Generator's Phone:

Generator's Site Address (if different than mailing address)
CLARK
399 W. LIBERTY ST
WAUCONDA, IL

6. Transporter 1 Company Name: North Branch Environmental — ILTM035046111L — U.S. EPA ID Number: ILR000082977

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLARK
7601 W. 47th street
McCook, IL 60525 (708)752-5119
Facility's Phone:
U.S. EPA ID Number: 021174009

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-Hazardous Liquid	001	tt	3000	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
87266 Work order 89022

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: SCOTT SCHAEFER — Signature — Month 03 Day 09 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: SCOTT SCHAEFER — Signature — Month 03 Day 09 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Aurell [illegible] — Signature — Month 03 Day 09 Year 09

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 0434825101
2. Page 1 of
3. Emergency Response Phone: (630)529-0240
4. Manifest Tracking Number: **004066462 JJK**

5. Generator's Name and Mailing Address:
NORTH BRANCH ENVIRONMENTAL
7N458 GARDEN AVE
Roselle, IL 60110

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: North Branch Environmental UPA035046IIL — U.S. EPA ID Number: ILR000052977

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Ortech
7601 W 47th street
McCook, Il 60525 (708)762-5119

U.S. EPA ID Number: 0311740001

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-Hazardous Liquid	001	tt	2800	g	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
87327 Work order 89044

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEVE MOELLENBRINK — Signature: [signature] — Month 3 Day 13 Year 09

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STEVE MOELLENBRINK — Signature: [signature] — Month 3 Day 13 Year 09
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [handwritten name] — Signature: [signature] — Month 3 Day 12 Year [illegible]

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **TRANSPORTER'S COPY**

Form Work 89044 4 Bath Warrenville, 2,800 gals

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	0434835101		(630)528-0240	005349202 JJK

GENERATOR

5. Generator's Name and Mailing Address

North Branch Environmental
1N 458 Garden ave
Roselle, IL 60172 (630)528-0240

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: North Branch Environmental — U.S. EPA ID Number: ILR000052977

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address

Orsek
7601 W. 47th street
McCook, IL 60525 (708)762-5119

U.S. EPA ID Number: 031174000

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-Hazardous Liquid	001	DT	2000	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

Work order 99145

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: B. Hogan — Signature — Month 04 Day 21 Year 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: B. Hogan — Signature — Month 04 Day 21 Year 09

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

APPENEDIX B

SOIL BORING LOGS

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)	Completion	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		Brown fine grained SAND, slight odor, moist
	> 9,999 (lab)			SP	
	7,754			SP	Gray fine grained SAND, odor, saturated @ 8'
			10		
	81.0			SP	Gray fine grained SAND, slight odor, saturated
	679				
	138		15		

Completion Notes:

Backfilled with bentonite from 16' to 0.25' bls. Capped with grass.

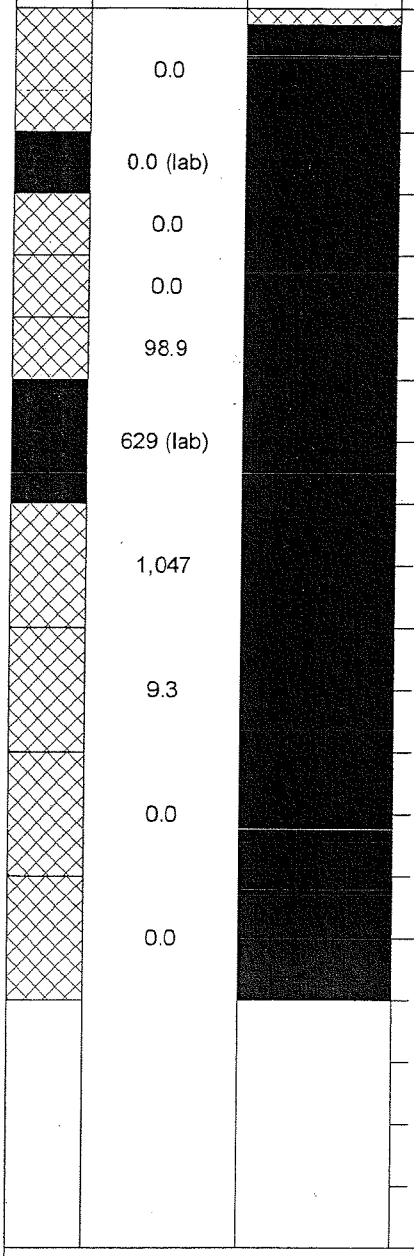
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 20081812
LPC No.: 0971855024

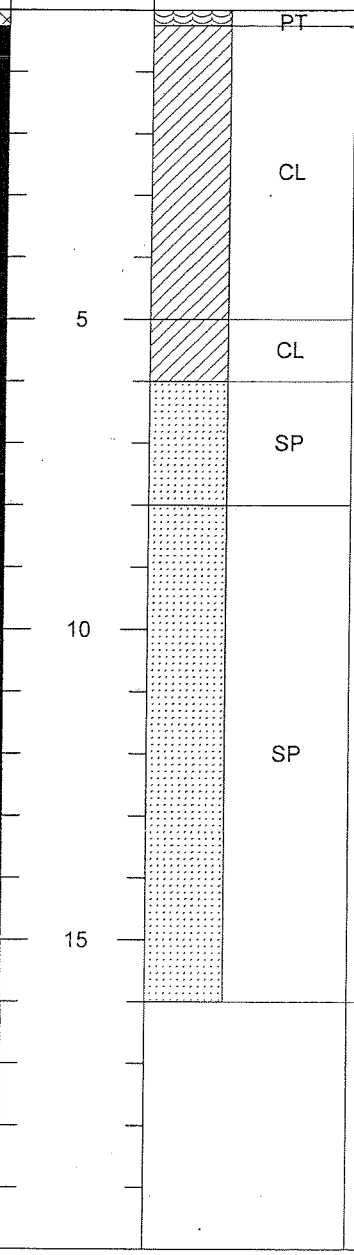
Project No.: 100018

SB-42

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





Description
Grass and topsoil
Brown silty CLAY, some organics, trace sand and gravel, no odor, slightly moist, soft
Brown and gray silty CLAY, trace sand and gravel, odor, slightly moist
Brown fine grained SAND, odor, slightly moist
Gray fine grained SAND, odor, saturated @ 8'

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.: 20081812
LPC No.: 0971855024

Project No.: 100018

SB-43

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)	Completion	Depth (feet)	Lithology	Description
				Concrete	Concrete
	NA			GW	Gravel fill material
	11.3			CL	Brown silty, sandy CLAY, trace gravel, no odor, slightly moist
	33.2			CL	Brown silty CLAY, trace sand and gravel, no odor, slightly moist
	33.7 (lab)			CL	Brown silty CLAY, little gray silt, trace sand, slight odor, slightly moist
	5.2		5	CL	turning semi-stiff
	70.8 (lab)			CL	Brown silty CLAY, little gray silt, trace sand, semi-stiff, odor, slightly moist
	647			SP	Brown and gray fine grained SAND, odor, saturated @ 8'
	3,224		10	SP	Gray fine grained SAND, odor, saturated
	482				
	0.4		15	SP	Gray fine grained SAND, no odor, saturated

Completion Notes:

Backfilled with bentonite from 16' to 0.25' bls. Capped with concrete.

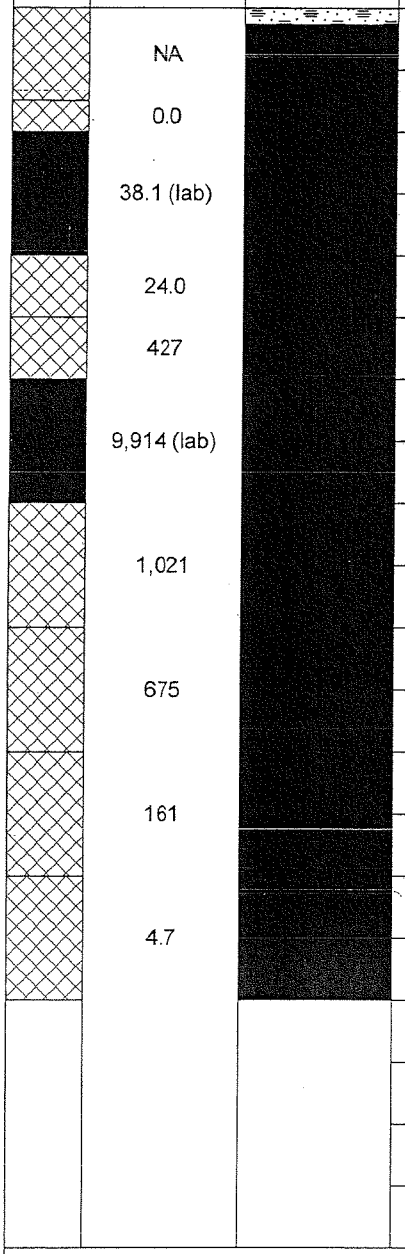
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 20081812
LPC No.: 0971855024

Project No.: 100018

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



Depth (feet)	Lithology	Description
	Concrete	Concrete
	GW	Gravel fill material
	CL	Brown silty CLAY, trace sand and gravel, no odor, slightly moist
	CL	Brown silty CLAY, little gray silt, trace sand and gravel, semi-stiff, slight odor, slightly moist
5		
	SP	Brown fine grained SAND, odor, moist
		Gray fine grained SAND, odor, saturated @ 8'
10	SP	
		Gray fine grained SAND, no odor, saturated
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.: 20081812
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)	Completion	Depth (feet)	Lithology	Description
	NA			Concrete	Concrete
				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'
	4,530			SP	Brown fine grained SAND, odor, saturated Gray fine grained SAND, odor, saturated
	199		10	SP	
	476				
	5.4		15	SP	Gray fine grained SAND, no odor, saturated

Completion Notes:

Backfilled with bentonite from 16' to 0.25' bls. Capped with concrete.

Site:

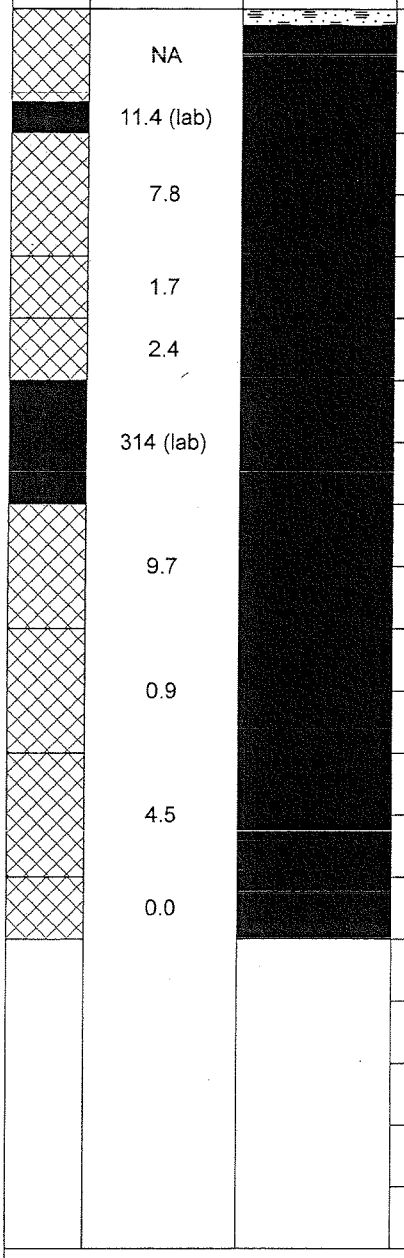
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 20081812
LPC No.: 0971855024

Project No.: 100018 Page 1

SB-46

TriCore Environmental, LLC

Drill Method: Direct-Push	Date Drilled: 02/02/09	Logged By:
Boring Dia: 2.125 Inches	DTW While Drilling: 10 Feet	M. Czako



Sample	PID (ppm)	Depth (feet)	Lithology	Description
			Concrete	Concrete
	NA		GW	Gravel fill material
	11.4 (lab)		CL	Grayish-brown silty CLAY, trace sand and gravel, no odor, semi-stiff, slightly moist
	7.8		CL	Brown silty CLAY, little silt, trace sand and gravel, no odor, stiff, slightly moist
	1.7		CL	Brown CLAY and SILT, trace sand and gravel, no odor, slightly moist
	2.4	5	CL	Brown CLAY and gray SILT, trace sand and gravel, no odor, slightly moist
	314 (lab)		CL	tuning moist
	9.7		CL	Gray silty CLAY, trace sand and gravel, soft, no odor, moist, saturated @ 10'
	0.9	10		
	4.5		SP	Gray fine grained SAND, no odor saturated
	0.0	15		

Completion Notes:

Backfilled with bentonite from 15' to 0.25' bls. Capped with concrete.

Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 20081812
LPC No.: 0971855024

Project No.: 100018 | Page 1

TriCore Environmental, LLC

SB-47

Drill Method:	Direct-Push	Date Drilled:	02/02/09	Logged By:
Boring Dia:	2.125 Inches	DTW While Drilling:	9 Feet	M. Czako

Sample	PID (ppm)	Completion	Depth (feet)	Lithology	Description
				Concrete	Concrete
	NA			GW	Gravel and sand fill material
	0.6			CL	Brown silty CLAY, trace sand, semi-stiff, no odor, slightly moist
	0.6 (lab)			CL	Brown silty CLAY, trace sand and gravel, semi-stiff, no odor, slightly moist
	0.0		5		
	0.6				turning moist
	6.8 (lab)			CL	
	0.6			CL	Brown and gray silty CLAY, trace sand and gravel, semi-stiff, no odor, moist
	0.0				Gray fine grained SAND, saturated @ 9'
	0.0		10		
	0.0			SP	
	0.0		15		

Completion Notes:

Backfilled with bentonite from 15' to 0.25' bls. Capped with concrete.

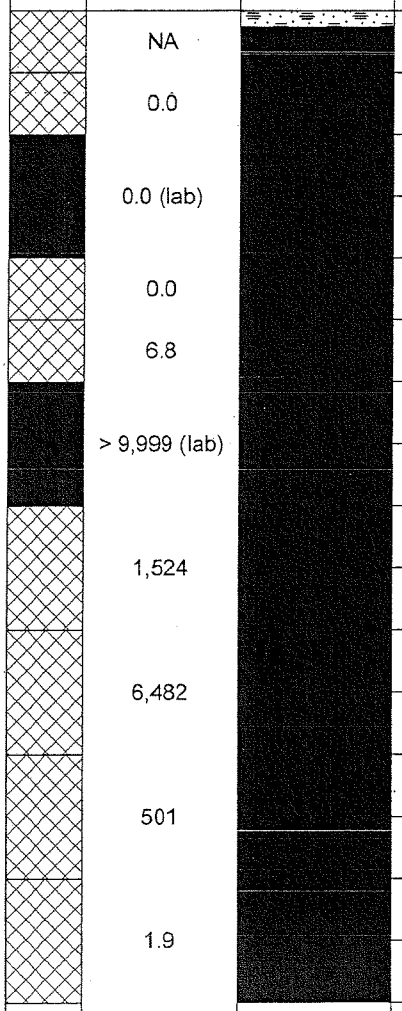
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 20081812
LPC No.: 0971855024

Project No.: 100018

TriCore Environmental, LLC

SB-48

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
	NA		Concrete	Concrete
			GW	Gravel fill material
	0.0		CL	Brown silty CLAY, trace sand, brittle, no odor, dry
	0.0 (lab)		CL	Brown silty CLAY, trace sand, no odor, slightly moist
	0.0	5		
	6.8			
	> 9,999 (lab)			
	1,524		SP	Brown fine grained SAND, odor, moist, saturated @ 8'
		10		
	6,482		SP	hydrocarbon staining present
	501		SP	Gray fine grained SAND, odor, saturated
	1.9	15	SP	Gray fine grained SAND, no odor, saturated

Completion Notes:

Backfilled with bentonite from 16' to 0.25' bls. Capped with concrete.

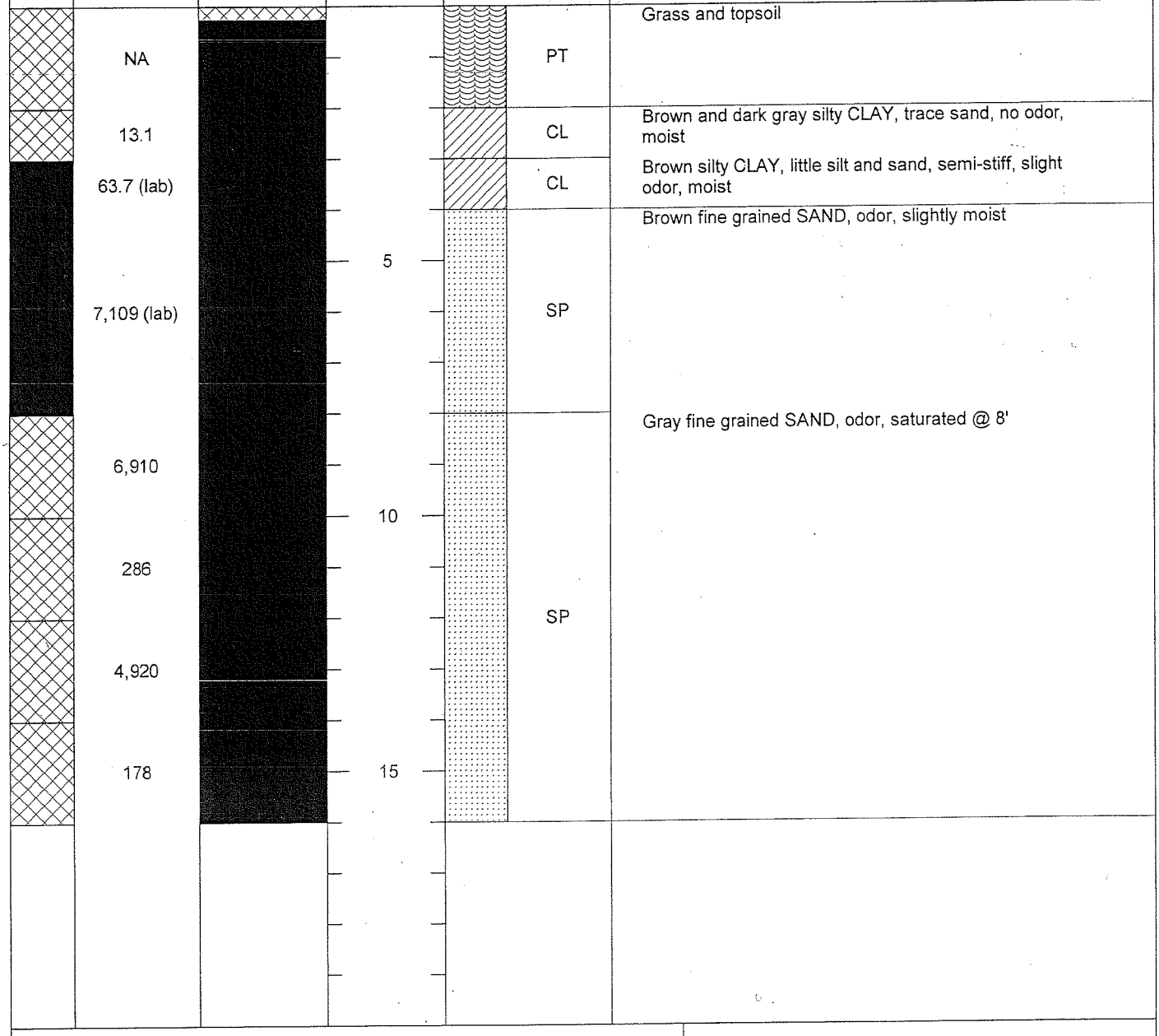
Site:
Shivam Energy, Inc.
399 West Liberty Street
Wauconda, Illinois 60084
IEMA No.: 20081812
LPC No.: 0971855024

Project No.: 100018

SB-49

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	



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.: 20081812
LPC No.: 0971855024

Project No.: 100018

SB-50

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)	Completion	Depth (feet)	Lithology	Description
	NA			PT	Grass and topsoil
	0.0			CL	Brown and dark gray silty CLAY, trace sand and gravel, no odor, moist
	0.0				
	5.0		5	SP	Brown fine grained SAND, no odor, slightly moist
	8.5 (lab)				
	185			SP	Gray fine grained SAND, slight odor, saturated @ 8'
	2.3		10	SP	Gray fine grained SAND, no odor, saturated
	26.9				
	0.0		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.: 20081812
LPC No.: 0971855024

Project No.: 100018 | Page 1

APPENDIX C

FREE PRODUCT REMOVAL BUDGET

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.: 903199

IEMA Notification Date: Oct 30, 1990

Date this form was prepared: Apr 2, 2009

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.)

Rajani Patel 03/01/2009

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	N/A	N/A	N/A	N/A
Drilling and Monitoring Well Costs Form	$ 5,724.60	$	$	$	$
Analytical Costs Form	$ 639.01	$	$	$	$
Remediation and Disposal Costs Form	$ 18,531.01	$	$	$	$
UST Removal and Abandonment Costs Form	$ .00	$	$	$	$
Paving, Demolition, and Well Abandonment Costs Form	$ .00	$	$	$	$
Consulting Personnel Costs Form	$ 31,706.10	$	$	$	$
Consultant's Materials Costs Form	$ 13,340.50	$	$	$	$
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	$ 69,941.22	$	$	$	$

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
7	HSA	15.00	105.00	SB-51/MW-29 through SB-57/MW-35
1	HSA	15.00	15.00	RW-2

☐ Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot ($)	Total Cost ($)
Total Feet via HSA:	120.00	25.08	3,009.60
Total Feet via PUSH:			
Total Feet for Injection via PUSH:			
		Total Drilling Costs:	3,009.60

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed ($)
4	HSA	2.00	15.00	60.00
4	4" or 6" Recovery	4.00	15.00	60.00

Well Installation	Total Feet	Rate per Foot ($)	Total Cost ($)
Total Feet via HSA:	60.00	17.99	1,079.40
Total Feet via PUSH:			
Total Feet of 4" or 6" Recovery:	60.00	27.26	1,635.60
Total Feet of 8" or Greater Recovery:			
		Total Well Costs:	2,715.00

Total Drilling and Monitoring Well Costs:	$5,724.60

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost ($) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	4	X	92.69	=	$370.76
BETX Water with MTBE EPA 8260		X		=	
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010	1	X	35.99	=	$35.99
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)	1	X	15.27	=	$15.27
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH	1	X	15.27	=	$15.27
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		=	
		X		=	
		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)	1	X	86.15	=	$86.15
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	1	X	17.45	=	$17.45
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		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	4	X	10.90	=	$43.60
Sample Shipping per sampling event[1]	1	X	54.52	=	$54.52

[1]A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: $ 639.01

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 ($)	
Total Remediation Materials Costs Summary Sheet ($)	
Total Cost of the System	

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

Number of Gallons	Cost per Gallon ($)	Total Cost
20,400	.74	$15,096.00

E. Drum Disposal

Number of Drums of Solid Waste	Cost per Drum ($)	Total Cost
12	272.62	$3,271.44
Number of Drums of Liquid Waste	**Cost per Drum ($)**	**Total Cost**
1	163.57	$163.57
Total Drum Disposal Costs		$3,435.01

Total Remediation and Disposal Costs:	$18,531.01

UST Removal and Abandonment Costs Form

Product Stored in UST	Size (gallons)	Abandoned or Removed	Cost ($)	Did UST have a release?
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐

Total UST Removal and Abandonment Costs: _____

Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Number of Square Feet	Asphalt or Concrete	Thickness (inches)	Cost ($) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost

Total Concrete and Asphalt Placement/Replacement Costs:	

B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantled, or Removed	Unit Cost ($)	Total Cost ($)

Total Building Destruction or Dismantling and Canopy Removal Costs:	

Paving, Demolition, and Well Abandonment Costs Form

C. Well Abandonment

Monitoring Well ID #	Type of Well (HSA / PUSH / Recovery)	Depth of Well (feet)	Cost ($) per Foot	Total Cost

Total Monitoring Well Abandonment Costs:	

Total Paving, Demolition, and Well Abandonment Costs:	

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* ($)	Total Cost
Remediation Category	**Task**			
Marcos Czako	Project Manager	30.00	98.14	$2,944.20
FP-Field	RW and MW installation; soil sampling; surveying			
Patrick Worrall	Geologist III	20.00	95.96	$1,919.20
FP-Field	RW and MW installation; surveying			
Marcos Czako	Project Manager	25.00	98.14	$2,453.50
FP-Plan	FPRP prep; project management and coordination			
Shawn Rodeck	Senior Prof. Engineer	4.00	141.76	$567.04
FP-Plan	FPRP review and certification			
Kimberly Henkel	Senior Admin. Assistant	2.00	49.07	$98.14
FP-Plan	FPRP correspondence, copying, and mailing			
Marcos Czako	Project Manager	10.00	98.14	$981.40
FP-Budget	FPR Budget prep			
Shawn Rodeck	Senior Prof. Engineer	2.00	141.76	$283.52
FP-Budget	FPR Budget review and certification			
Kimberly Henkel	Senior Acct. Technician	12.00	59.98	$719.76
FP-Pay	Reimbursement package prep			
Shawn Rodeck	Senior Prof. Engineer	2.00	141.76	$283.52
FP-Pay	Reimbursement package review and certification			

Employee Name	Personnel Title	Hours	Rate* ($)	Total Cost
Remediation Category	**Task**			
Marcos Czako	Project Manager	8.00	98.14	$785.12
FP-Design	Free product recovery system design			
Shawn Rodeck	Senior Prof. Engineer	8.00	141.76	$1,134.08
FP-Design	Free product recovery system design			
Marcos Czako	Project Manager	40.00	98.14	$3,925.60
FP-Field	Free product recovery system installation and start up			
Randy Wilson	Senior Technician	20.00	70.88	$1,417.60
FP-Field	Free product recovery system installation and start up			
Patrick Worrall	Geologist III	84.00	95.96	$8,060.64
FP-Field	Free product recovery system O&M			
Senior Draftperson/CAD Subcontractor	Senior Draftperson/CAD	10.00	65.43	$654.30
FP-Plan	Figures prep			
Patrick Worrall	Geologist III	48.00	95.96	$4,606.08
FP-Field	Free product recovery			
Shawn Rodeck	Senior Project Manager	8.00	109.05	$872.40
FP-Field	Project management and coordination			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	$31,706.10

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Remediation Category	**Description/Justification**			
Truck	30.00	100.00	day	$3,000.00
FP-Field	Used for consultant transportation to and from the site			
PID	6.00	85.00	day	$510.00
FP-Field	Used to screen samples during well installation activities			
Interface Meter	15.00	35.00	day	$525.00
FP-Field	Used to gauge the MWs and RWs during free product recovery activities			
Nitrile Gloves	165.00	.50	pair	$82.50
FP-Field	Used to protect hands during soil sampling and gauging activities			
Baggies	80.00	.25	baggie	$20.00
FP-Field	Used to collect soil samples in for head space screening			
Measuring Wheel	1.00	10.00	day	$10.00
FP-Field	Used to measure the locations of the MWs and RW			
Distilled Water - Stock Item	20.00	2.50	gallon	$50.00
FP-Field	Used to decontaminate the interface probe during gauging			
Survey Equipment	1.00	85.00	day	$85.00
FP-Field	Used to survey the top of casing of the MWs and RW			
FPRP Shipping	1.00	15.00	plan	$15.00
FP-Plan	FPRP shipping			

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate ($)	Unit	Total Cost
Remediation Category	**Description/Justification**			
Reimbursement Package Shipping	1.00	15.00	package	$15.00
FP-Pay	Reimbursement package shipping			
Asphalt and/or Concrete Cutter	1.00	700.00	day	$700.00
FP-Design	Used to cut the asphalt and/or concrete for the free product recovery system installation			
Free Product Skimmers	4.00	700.00	skimmer	$2,800.00
FP-Design	Used to recovery free product from the RWs			
Brushless Digital Drive Pump	1.00	1,635.00	pump	$1,635.00
FP-Design	Used for automatic recovery of free product from the free product skimmers			
Pump Heads	4.00	266.00	head	$1,064.00
FP-Design	Used for automatic recovery of free product from the free product skimmers			
Mounting Hardware for Pump Heads	1.00	43.00	hardware	$43.00
FP-Design	Mounting hardware for pump heads			
Tygon Tubing	1.00	126.00	roll	$126.00
FP-Design	Tubing to install within the pump heads			
Goodyear Gorilla Hose	375.00	2.00	foot	$750.00
FP-Design	Hose to connect from the pump heads to the free product skimmers			
Free Product Storage Container	1.00	100.00	container	$100.00
FP-Design	Storage container for the recovered free product			

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate ($)	Unit	Total Cost
Remediation Category	**Description/Justification**				
Secondary Containment Deck		1.00	300.00	deck	$300.00
FP-Design	Secondary containment deck for the free product storage container				
Electro-Optic Point-Level Sensor		1.00	110.00	sensor	$110.00
FP-Design	Used to shut off the pump when the free product storage container is full				
Bung-Access Funnel		1.00	300.00	funnel	$300.00
FP-Design	Used to allow access to the drum bung for use with the level sensor				
Asphalt and/or Concrete Sealant		1.00	100.00	sealant	$100.00
FP-Design	Sealant for the asphalt and/or concrete cuts once the hoses have been installed				
Electrician		1.00	1,000.00	project	$1,000.00
FP-Design	Used to install a electrical outlet to operate the free product recovery system				

Total of Consultant Materials Costs	**$13,340.50**

APPENDIX D

OWNER/OPERATOR AND LICENSED PROFESSIONAL ENGINEER/GEOLOGIST BUDGET CERTIFICATION FORM

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: Rajani Patel Date: 03/01/2009

Subscribed and sworn to before me the 1 day of March, 2009.

Sandra L. Rodeck (Notary Public) Seal: OFFICIAL SEAL SANDRA L. RODECK NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 12-26-2011

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: REGISTERED PROFESSIONAL ENGINEER SHAWN A. RODECK 062-052879 STATE OF ILLINOIS

L.P.E./L.P.G. Signature: Shawn Rodeck Date: 03/04/09

Subscribed and sworn to before me the 4 day of March, 2009.

Sandra L. Rodeck (Notary Public) Seal: OFFICIAL SEAL SANDRA L. RODECK NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 12-26-2011

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.

APPENDIX E

OFFICE OF THE STATE FIRE MARSHAL ELIGIBILITY AND DEDUCTIBLE DETERMINATION LETTER