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September 4, 2015

Mr. Barry Brawley
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Tennessee Division of Remediation
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Nashville, Tennessee 37243

Re: Final Corrective Action Plan for the 2007-Discovered Solvent Release at The Egyptian Lacquer Manufacturing Company
113 Fort Granger Drive
Franklin, Tennessee
TriAD Project No. 07-ELM01-01

Dear Mr. Brawley:

On behalf of The Egyptian Lacquer Manufacturing Company (ELMCO), and through its attorneys Burr & Forman LLP, TriAD Environmental Consultants, Inc., (TriAD) is pleased to submit one paper and one electronic copy of the subject document to the Tennessee Department of Environment and Conservation (TDEC), Division of Remediation (TDOR), for review and comment or approval. This *Final Corrective Action Plan* (FCAP) presents a summary of the actions taken by ELMCO, its contractors, and TDEC since the discovery, in early 2007, of a release of solvents from the ELMCO facility. The FCAP also describes the current, greatly reduced contaminant concentrations at the site and evaluates the potential risks posed by the remaining contaminants. Finally, the FCAP presents the proposed final remedy to address the residual risks, a remedy that has been developed based on discussions between ELMCO and TDOR representatives.

If you have informal technical questions regarding this submission, please contact me or Mr. Dwight Hinch at TriAD. Any formal response should be addressed to Mr. Kerry Mattox of ELMCO, with a copy to me and Mr. Bill Penny of Burr & Forman.

Sincerely,

TriAD Environmental Consultants, Inc.

Chris Scott, P.G.
Senior Hydrogeologist

Attachments (2)

cc: Mr. Kerry Mattox, ELMCO
Mr. Bill Penny, Burr & Forman

FINAL CORRECTIVE ACTION PLAN

FOR THE 2007-DISCOVERED SOLVENT RELEASE AT THE EGYPTIAN LACQUER MANUFACTURING COMPANY 113 FORT GRANGER DRIVE, FRANKLIN, TENNESSEE

TriAD Project 07-ELM01-01

Prepared for:

The Egyptian Lacquer Manufacturing Company

113 Fort Granger Drive
Franklin, Tennessee

Prepared by:

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September 4, 2015

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EXECUTIVE SUMMARY

In early 2007 Egyptian Lacquer Manufacturing Company ("ELMCO") volunteered assistance to the Tennessee Department of Environment and Conservation ("TDEC") to find the source of solvents that were entering Liberty Creek. ELMCO discovered a slow leak in pipes from its aboveground solvent storage tanks (the "Site"). The pipes were used to transfer organic solvent products to the paint manufacturing building. The portion of the pipes where the leaks occurred was underground and could not be observed, and ELMCO did not observe any excessive loss of inventory of the products. Therefore, the leak went undiscovered for an unknown period of time. This accidental release resulted in the migration of solvent constituents – principally acetone and toluene – through the soil and into the underlying limestone bedrock. These constituents combined with groundwater and discharged from seeps into the Harpeth River south of the Site and into Liberty Creek west of the Site. At the time of the discovery, free product toluene was documented seeping into Liberty Creek at three discrete locations and dissolved acetone and toluene seeping at four discrete locations on the Harpeth River from the CSX Railroad Bridge to Liberty Creek. No free product was ever observed in the Harpeth River.

ELMCO immediately initiated efforts to capture the free product in Liberty Creek through use of absorbent material and later intercepted groundwater adjacent to Liberty Creek to prevent to the extent possible the free product from entering Liberty Creek. ELMCO eliminated the source of the solvent release by disconnecting the pipes from the tank farm and removing solvent from them. The tanks were subsequently removed. By the fall of 2008 no free product was observed in Liberty Creek.

ELMCO employed *in situ* bioremediation at the source area, and subsequently employed vapor extraction in the source area to remove most of the solvents remaining in the subsurface soils. As a result of these efforts and natural mechanisms in the environment, acetone is no longer present in either Liberty Creek or the Harpeth River and toluene has been greatly reduced. Though no unacceptable risk to human health or the environment is present, some residual contamination remains in the soils, bedrock, and groundwater

at and around the Site. ELMCO has developed this Final Corrective Action Plan ("FCAP") to address this residual contamination.

Throughout the response to the release, ELMCO and TDEC have worked to ensure that the public is not at risk. ELMCO installed nine groundwater monitoring wells and sampled them frequently to measure the extent of groundwater contamination in the affected area. In addition, ELMCO evaluated the existing biological constituents in the groundwater to determine the existence of biological organisms that naturally consume the organic solvents. A water-use survey demonstrated that groundwater within the impacted area is not used for human consumption. Multiple rounds of ambient air, indoor air, and soil gas testing demonstrated that the concentrations of solvent constituents in air and soil gas have been and remain below applicable risk-based standards as defined by TDEC and the U.S. Environmental Protection Agency and thus pose no significant risk to nearby residents. Extensive monitoring of surface water showed that solvent constituents in the Harpeth River do not exceed drinking water standards and that the river is not measurably impacted. The remaining surface water impact is limited to the lower reaches of Liberty Creek. Risk assessments have also demonstrated that there is no unacceptable health risk to local residents or recreational users of the river or creek. The only risk that may be posed by the remaining solvent constituents is to ecological receptors in the portion of Liberty Creek in the immediate vicinity of the seeps.

Monitoring data show that natural mechanisms continue to disperse, dilute, and degrade the residual solvent constituents. In consideration of the statutory criteria required to be considered by TDEC, ELMCO submits this final remedy. This submission is based the monitoring data and on the continued lack of risk to human health. The final remedy includes (1) environmental monitoring to verify that natural mechanisms continue to attenuate contaminant concentrations in groundwater and surface water, and (2) the establishment of certain land use restrictions at the ELMCO property to control potential future human exposure to the remaining subsurface contamination in the vicinity of the former tank farm. Implementation of this remedy will occur upon approval of this FCAP by TDEC.

FINAL CORRECTIVE ACTION PLAN
FOR THE 2007-DISCOVERED SOLVENT RELEASE AT
THE EGYPTIAN LACQUER MANUFACTURING COMPANY
113 FORT GRANGER DRIVE, FRANKLIN, TENNESSEE

1.0 INTRODUCTION

On behalf of the Egyptian Lacquer Manufacturing Company ("ELMCO"), and through its attorneys Burr Forman LLP, this *Final Corrective Action Plan* ("FCAP") has been prepared by TriAD Environmental Consultants, Inc. ("TriAD") to address an accidental release of volatile organic solvents that occurred at the ELMCO manufacturing facility located at 113 Fort Granger Drive (the "ELMCO facility" or "Site"). This FCAP has been prepared for submission to the Division of Remediation ("TDOR") of the Tennessee Department of Environment and Conservation ("TDEC") pursuant to the *Consent Agreement and Order* (the "Order", Case No. 07-R0134) that ELMCO entered into with TDEC in 2007 to address the solvent release.

It was discovered in early 2007 that solvents had been leaking from underground pipes (that transferred solvents from an aboveground Tank Farm to the manufacturing building) at the Site and migrating down into the subsurface soils (without any obvious surface indications of such a release). The released solvents eventually migrated into the underlying limestone bedrock and then along with the groundwater (in dissolved and/or free-product form) to discharge from seeps into the Harpeth River south of the Site and especially into Liberty Creek west of the Site. Starting in February 2007 (even before the leaking pipes were found) and continuing as of this writing, ELMCO has worked cooperatively with TDEC on multiple and various efforts to identify the source and stop the release of solvents, to investigate and remediate the contamination in soils, groundwater, surface water, and air, and to assess and ameliorate the potential impacts on human and ecological receptors. The remediation efforts implemented by ELMCO and, to a lesser extent, TDEC, along with natural attenuation, have greatly reduced the environmental presence of the released solvents and their constituents, and

concentrations continue to gradually decline. However, some residual contamination remains in the soils, bedrock, and groundwater at and around the Site, and this FCAP has been specifically developed to address this residual contamination. In addition to documenting the past investigative, assessment, and remediation efforts (particularly those conducted since 2008), this FCAP describes the need for, and nature of, additional actions that are being taken, or will be taken, to protect potential human and environmental receptors from adverse impacts caused by the dwindling residual contamination.

2.0 BACKGROUND

ELMCO and TDEC have now been dealing with the accidental solvent release at the Site for a long time – eight years – and a great deal of effort and resources have been expended. This section provides information on the physical setting, the solvent release itself, the site geology and hydrogeology, and the chronology of ELMCO's and TDEC's responses, to provide the background and framework that are intended to put into perspective and aid in understanding the details provided in subsequent sections.

2.1 Site Setting

The ELMCO facility, located at 113 Fort Granger Drive in Franklin, Tennessee, is a manufacturer of specialty paints and lacquers. Although ELMCO and its customers have transitioned in recent years to mostly water-based products, in 2007 and before most of ELMCO's manufactured paints and lacquers consisted of organic solvent-based products to meet the fast-drying standards of its industrial customers. Since the beginning of operations at their current location in 1978, ELMCO has used a variety of non-chlorinated, volatile organic compound ("VOC") solvents in its products. Prior to 2008, these solvents were principally stored in twelve aboveground storage tanks located in the western portion of the Site. The twelve steel tanks, which were removed from the Site in April 2008, were secured in concrete cradles on a concrete pad and surrounded by low, concrete-block secondary containment walls. The tanks were connected to the

manufacturing building via twelve underground pipelines, which were decommissioned, cleaned, and partially removed in February and March 2007. The tank farm was located approximately 350 feet west of the building, at an elevation of approximately 665 feet above mean sea level ("MSL"). Figure 1 shows the ELMCO facility, including the location of the former tank farm and the manufacturing building, along with other area features.

For the purposes of this FCAP, the geographic features of the land south (to the Harpeth River) and west-northwest (to Liberty Creek) are important. The locations of these features are shown on Figure 1. The topographic relationships between these features are shown on Figures 2 and 3, which are west-to-east and north-to-south cross sections showing elevations of the ground surface and other relevant features.

Just west of the former ELMCO tank farm and down a short slope is an abandoned railroad spur siding and, just to its west, the main line of the CSX railroad, which serves downtown Franklin. The abandoned rail spur was owned partly by local landowners and partly by CSX. The CSX-owned portion of the right-of-way ends 140 feet from the former switch points. The railroad main line is approximately 175 feet west of the former tank farm and at about 645 feet above MSL (roughly 20 feet lower than the tank farm).

West of the railroad is found the residential development along Daniels Drive. The single-family homes and duplexes are arranged along both sides of the street and around the cul-de-sac that forms the southern end of Daniels Drive. The nearest residence to the tank farm (124 Daniels Drive) is located approximately 250 feet west. The elevation of Daniels Drive at its high point (near 120 Daniels Drive) is about 650 feet above MSL (roughly 15 feet lower than the former tank farm). The elevation of Daniels Drive at monitoring well MW-5, located at 110 Daniels Drive, and at the cul-de-sac is approximately 640 feet above MSL (roughly 25 feet lower than the former tank farm). The residences at the south end of Daniels Drive, nearest the Harpeth River, are at an

elevation of about 630 feet above MSL, or roughly 35 feet lower than the former tank farm.

West of the Daniels Drive residential area, the land slopes down into the valley of Liberty Creek. The valley floor elevation is about 620 feet above MSL. Liberty Creek itself is approximately 750 feet west of the former tank farm at an elevation of 611 feet above MSL (measured at the Main Seep described in Section 3, roughly 55 feet lower than the former tank farm).

To the west of Liberty Creek the land rises out of the creek valley to an elevation of about 635 feet above MSL. Battle Ground Academy Lower School (i.e., “BGA” elementary) is located here, about 850 feet west of the former tank farm.

At its nearest point to the tank farm, the Harpeth River is located about 340 feet south-southwest. At that point, the water-level elevation of the river (which varies significantly in response to rain events) has been measured at about 605 feet above MSL (roughly 60 feet lower than the former tank farm).

Several underground utility lines serve the area. Water lines are located parallel to Fort Granger Drive and Daniels Drive, although they are not shown on the maps or cross sections included with the CAP. A private sewer line serving ELMCO and the property adjacent to the north runs parallel to and on the east side of the rail spur and CSX main line. The private sewer line connects with the municipal sewer near the CSX railroad bridge over the Harpeth River. This private line is located roughly 6 feet underground and is not shown on the maps or cross sections included with this CAP. Municipal sanitary sewer lines are located along Daniels Drive, the Harpeth River, and Liberty Creek. These sewer lines are shown on Figure 1 and, in the case of the line along Liberty Creek, on Figure 2.

Land use in the vicinity of the Site is primarily light industrial and commercial east of the railroad, residential west of the railroad, and undeveloped park land south of the Harpeth River. Fort Granger Park, a municipal park incorporating the location of a Civil War fort, is located adjacent to ELMCO on the south, on the higher ground between ELMCO and the Harpeth River.

2.2 Summary of Solvent Release

Certain organic solvent products were released into the subsurface at the Site from leaking underground pipelines that connected the former above-ground tank farm to the ELMCO manufacturing building. Over time, these released solvents migrated downward through the overburden soils into the uppermost aquifer, which resides in and just above the underlying bedrock. The lighter-than-water solvents then migrated along with the groundwater westward to discharge into the lower reaches of Liberty Creek (from its eastern bank) as both free-product solvent and in dissolved phase in the groundwater. Liberty Creek's flow then carried the solvent constituents into the Harpeth River. The solvent constituents in dissolved phase also discharged with groundwater into a short stretch of the Harpeth River (from its northern bank). The following subsections more thoroughly describe the solvent release and the physical properties of the principal chemicals of concern, toluene and acetone.

2.2.1 Release Mechanism

Following the discovery in December 2006 and January 2007 of VOCs in water and air samples collected at the Harpeth River and Liberty Creek and the early February 2007 discovery of the discharge of free-product solvent into Liberty Creek, ELMCO had tightness testing performed on its underground solvent pipelines in February 2007. This testing detected a possible leak in the acetone line, and usage of all of the underground pipelines was immediately terminated and the pipelines were subsequently emptied and cleaned. Pursuant to a work plan submitted to and approved by TDEC, a detailed investigation of the underground pipes was thereafter performed in February and March

2007. This work involved exposing – via excavation – and inspecting (visually and with an Organic Vapor Meter ["OVM"]) the piping near the tank farm and at nine test pits spaced at 30- to 40-foot intervals between the tank farm and the manufacturing building. As determined from this inspection of the excavated underground pipelines, the pipes were coated with plastic, their connections were wrapped in plastic, and were in excellent condition except at the 90-degree elbows below where the pipes exited the ground at the tank farm end (similar elbows at the building end of the lines were observed to be wrapped and in excellent condition). At the tank-farm end, the unprotected pipe elbows of all of the pipes were heavily corroded and two of the pipes, those carrying acetone and toluene, were obviously leaking. No quantitative integrity tests were performed on the elbows. High organic vapor readings were found in the soil surrounding the pipe elbows, and soil samples were collected from this area and analyzed for VOCs by U.S. Environmental Protection Agency ("EPA") SW846 Method 8260B. The samples were found to be heavily contaminated with VOCs.

In addition to the visual and OVM inspection of the underground pipelines performed by TriAD in March 2007, soil samples were collected from each of the nine test pits, including directly beneath the pipe elbows at the building end. In each test pit, a soil sample was collected from a depth greater than the piping, as close to under the piping as possible, and the collected samples were analyzed for VOCs using Method 8260B. None of these samples contained VOCs above laboratory detection limits, demonstrating that the underground pipelines were not a source of contamination beyond the leaking elbows at the tank farm.

The performance and results of these pipeline investigations were reported in TriAD's April 11, 2007, letter "Data Report of Soil Investigation Results".

The discovery of the leaking acetone and toluene pipelines and the large concentrations of those VOCs in the soil samples collected near the leaks matched the principal

constituents of water contamination previously documented at groundwater seeps and surface-water sampling points along Liberty Creek and the Harpeth River. It was therefore concluded that releases of solvents from the unprotected, corroded pipe elbows at the tank farm were directly related to the VOCs identified in local surface water. Chemical analysis of the soil and surface water identified toluene and acetone as the principal constituents, with other chemicals (e.g., methyl isobutyl ketone [“MIBK”], methyl ethyl ketone [“MEK”], naphthalene, trimethylbenzene, ethylbenzene, xylenes) in minor amounts.

Although such cannot be ruled out with absolute certainty, there has been found at the ELMCO facility no evidence of significant solvent release other than at the leaking pipe elbows. In October 2006, prior to TriAD’s involvement and before the discovery of VOC contamination in Liberty Creek and the Harpeth River, a Phase II environmental site assessment was performed at ELMCO as part of a property transfer due diligence investigation. This investigation, performed by August Mack Environmental of Indianapolis, Indiana, consisted of subsurface soil sampling via 12 soil borings advanced by Geoprobe in several areas of the Site. (A copy of the Phase II report, dated November 2, 2006, was submitted previously to TDEC.) This investigation found significant VOC concentrations only in one soil boring drilled just west of the tank farm in a shallow drainageway (just downgradient of the later-discovered leaking pipe elbows). Although other soil samples collected from other borings contained trace concentrations of VOCs (i.e., less than 0.5 mg/kg total VOCs), the investigation found no evidence of any other release of sufficient quantity to justify further investigation. It is ELMCO’s and TriAD’s understanding that TDEC has concluded, based on this investigation and TriAD’s subsequent investigative efforts, that no further investigations for contaminant releases at the Site are needed.

Prior to ELMCO’s ownership of the property, two underground storage tanks were installed in a tank pit near the north side of the main (manufacturing) building at the Site.

One tank was reportedly used for heating oil (8,500 gallons) and the other for gasoline (6,500 gallons). The heating oil tank was removed in November 1997, and soil samples collected from the tank pit at that time showed no detectable concentrations of total petroleum hydrocarbons – diesel range organics. A closure report was submitted to TDEC. The gasoline tank was converted by ELMCO to use for process cooling water and is still in place for use for that purpose.

2.2.2 Elimination of Release Mechanism

Working in concert with TDSWM-SRP officials, ELMCO eliminated the source of the solvent release in February and March 2007. In February 2007, the solvent pipelines were permanently disconnected from the tank farm by severing the connection from the piping to the tanks at the tank-farm end. In March 2007, the pipes were further separated from the tanks by removing approximately 50 feet of each line from the ground at the tank-farm end. During these operations, the entire lengths of the pipelines were purged of solvent by vacuuming, nitrogen purging, and flushing them with water. All purged solvent and water was contained and subsequently disposed of off-Site as manifested hazardous waste. These efforts were described in TriAD's February 26, 2007, letter "Work Plan for Underground Pipeline Removal and Initial Soil Investigation at Egyptian Lacquer Manufacturing Co. ("ELMCO") in Franklin, Tennessee".

2.2.3 Volume of Release

The volume of solvent released into the environment by the leaking underground pipelines cannot be accurately determined for the following reasons:

1) Inventory controls were inadequate to detect a slow release over time. The solvent tanks were vented to the atmosphere, causing some evaporative loss of the highly volatile solvent compounds. Because the rate of volatilization is dependent on several atmospheric conditions, including temperature and humidity, only very rough estimates can be made regarding atmospheric losses (which were reported

to regulatory agencies as required by the facility's air permits). Further, the volume of solvent in each tank was measured using a calibrated stick, with measurements to the nearest inch. Because the liquid expands and contracts with temperature, calculations of tank volumes were necessarily estimates. Resolving differences between volumes purchased, volumes used in manufacturing, volumes estimated lost through volatilization, and volumes measured in the tanks is problematic and does not have the accuracy needed to detect small losses over time.

2) The timing of the release is unknown. All that can be established is that the pipe elbows at the tank farm end were corroded and leaking when they were inspected in March 2007. There are no federal or state regulatory requirements for routine underground pipeline tightness testing. Therefore, no testing had been performed on the pipelines between their installation in 1978 and 2007.

3) No reliable estimate of the rate of leakage from the pipe elbows can be made. The solvent in the pipes was not under constant pressure, so no accurate calculation can be made of how fast solvent could be "pushed" out of whatever size holes were found in the pipes. The solvent lines were used only occasionally as ELMCO personnel needed solvent for a particular batch of paint or lacquer. When not in use, the solvent pumps were turned off and the pressure on the lines was released. Therefore, any leaks from holes at the pipe elbows would have occurred at variable rates entirely dependent on the pressurization and depressurization of the pipes and the hydrostatic pressure surrounding the pipes.

Despite these limitations, TriAD included in the *Revised Comprehensive Corrective Action Plan* ("RCCAP"), dated June 23, 2008, the following estimates of the amounts of toluene and acetone remaining in the environment both in the groundwater (dissolved phase) and in the subsurface soils in the Source Area:

Toluene	3,091 pounds (425 gallons)
Acetone	26,607 pounds (4,056 gallons)

These estimated amounts did not attempt to include (1) the amounts already released to Liberty Creek and the Harpeth River, (2) the amount of free-product solvent – mostly toluene – remaining in the subsurface between the Source Area and Liberty Creek (which by June 2008 had principally stopped flowing into the Interceptor Trench), and (3) the amount of other solvent constituents also present (which were known to be minor in comparison to toluene and acetone).

2.2.4 Constituents of Concern

As previously noted in this and other reports, toluene and acetone are by far the most prevalent constituents in the contaminant plume. However, they are not the only constituents. Other constituents detected at the Site, in soil, surface water, and groundwater samples include:

Benzene
Di-isopropyl ether
Ethylbenzene
Isopropylbenzene (cumene)
Isopropyl alcohol
Methyl ethyl ketone (MEK)
Methyl isobutyl ketone (MIBK, 4-methyl-2-pentanone))
n-Propylbenzene
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Xylenes
cis-1,2-Dichloroethane
Tetrachloroethene

Methylene chloride

Naphthalene

1-Methylnaphthalene

2-Methylnaphthalene

Although detected in samples from time to time, most of these ancillary compounds have been detected sporadically. Some (e.g., naphthalene) have been detected in one medium (e.g., soil) and not in others. Some (e.g., cis-1,2-dichloroethane and tetrachloroethene) were detected only once. The methylnaphthalenes (the only semi-volatile organic compounds on the list), which were detected at trace levels in some groundwater samples, may represent naturally occurring compounds (bedrock formations in the area are known to be minimally petroliferous, i.e., containing small amounts of petroleum).

The source of most of the listed VOCs could be attributed to the variety of solvents stored at the tank farm at ELMCO over the years. ELMCO used not only toluene and acetone but also blended solvents consisting of several different volatile organics. Over time, different tanks held different products. Although ELMCO specifically and deliberately did not use solvents containing chlorinated compounds or benzene (based on the manufacturer's material safety data sheet), benzene is a common contaminant in shipments of toluene and may have entered the solvent stock without ELMCO's knowledge.

Regardless of the origin of any individual compound, the principal chemicals of concern at and in the vicinity of the Site during the early stages of ELMCO's response were toluene and acetone. Corrective action considerations were therefore focused on these two VOCs. Other solvent constituents, present in minor concentrations, were also VOCs and it was presumed that any remedial action taken to address the toluene and acetone would also remediate these associated VOCs. Benzene was later determined to be a

constituent of significant concern because of its much greater toxicity, although it has always been a minor component of the contaminant plume.

Toluene is a highly volatile organic compound that is largely insoluble in water. Its water solubility at room temperature is about 535 mg/L. The vapor density of toluene is 3.14, or roughly three times heavier than air. The half-life of toluene in surface water at 25º C is reported to be approximately 2.9 to 5.7 hours (source: EPA Technical Fact Sheet on Toluene).

Acetone is a volatile organic compound that is completely soluble in water (water solubility is infinite). The vapor density of acetone is 2.0, or roughly two times heavier than air. The half-life of acetone in surface water at 25º C is reported to be approximately 20 hours (source: U.S. Department of Energy Risk Assessment Information System). Acetone in water in high concentrations may act as a solvent for the toluene, slightly increasing the solubility of toluene.

Neither acetone nor toluene is considered a human carcinogen. In fact, both are considered to be of relatively low toxicity, although toluene is more toxic than acetone. For purposes of screening sites for contamination, EPA has established risk-based exposure concentrations for human populations for a number of chemicals (Regional Screening Levels or "RSLs", January 2015). TDEC also uses these RSLs for such purposes. The RSL for acetone in tap water is 14 mg/L, while that for toluene is 1.1 mg/L. EPA has also set a drinking water maximum contaminant level ("MCL") for toluene of 1.0 mg/L, but no MCL for acetone has been set.

Benzene is the only human carcinogen that has been consistently detected in water samples from the Site (it has not been detected in soil samples at concentrations exceeding detection limits). Benzene's vapor density is 2.8, or heavier than air. The half-life of benzene in flowing surface water is reported to be 2.7 hrs at 20º C (source: EPA

Technical Fact Sheet on Benzene). The benzene RSL for tap water is 0.00045 mg/L, with an MCL of 0.005 mg/L.

2.3 Site Geology and Hydrogeology

Based on a review of the published geologic map of the Franklin quadrangle (Geologic Map of the Franklin, Tennessee Quadrangle, Tennessee Division of Geology, 1963) and on data collected during the soil and groundwater investigations at the Site, the following description of Site geology has been assembled. Geologic information is presented on the cross sections in Figures 2 and 3.

Overburden at the Site consists of residual silty, sandy clay derived from weathering of the underlying bedrock. Layers of higher sand or clay content reflect lithologic differences in the bedrock parent material. The overburden ranges from 10 to 35 feet thick at the ELMCO facility, and may be completely absent in areas along the Harpeth River and Liberty Creek, which flow on or near bedrock. Drilling at the ELMCO facility has shown there is no significant groundwater in the overburden; where it occurs at all, groundwater in the overburden is limited to a thin zone at the top of rock, predominantly in bedrock depressions or “cutters.”

The uppermost bedrock unit at the ELMCO facility is the Bigby-Cannon Limestone, particularly the Bigby facies, which is the lowest facies in the formation. The Bigby ranges from 5 to 40 feet thick at ELMCO, thickening to the east. To the west, the Bigby thins gradually, disappearing completely in the valley of Liberty Creek. To the south, the Bigby does not thin, but ends in bluffs along the Harpeth River. The Bigby is a coarse-grained, cross-bedded phosphatic limestone that weathers into an irregular surface known as “cutter and pinnacle” topography. Cutters are linear depressions in the surface of the bedrock, formed by weathering along fractures. Because it readily forms solution features, the Bigby-Cannon Limestone is generally considered a good water-producer,

although no water has been encountered in the Bigby at ELMCO, other than minor perched zones at the top of rock.

Beneath the Bigby-Cannon, at a mapped elevation of approximately 630 feet above MSL, is the Hermitage Formation. The Hermitage is a shaly limestone less prone to solution development than the Bigby-Cannon, and as a result is a poor water producer. Boreholes drilled at ELMCO have encountered water flowing along bedding planes in the Hermitage, but there is generally little water, and monitoring wells set in the formation are very low yielding. Liberty Creek and the Harpeth River both flow on the Hermitage.

Based on the geologic map, the limestone formations in the vicinity of the Site dip slightly to the southwest, which is expected based on the Site's position in the southern portion of the Nashville Dome, a broad regional uplift. Examination of the bedrock outcrop along the Harpeth River south of ELMCO indicates a slight dip to the northwest, with a strike to the northeast. While some local variation in dip is likely, the overall degree of dip is low, with near-horizontal conditions predominating.

The bedrock surface at and in the vicinity of the Site is irregular. Data from Geoprobe and air-rotary drilling at ELMCO have indicated a cutter located near the south side of the tank farm that trends to the west-northwest. The upper bedrock within the cutter was observed to be heavily weathered, while the bedrock surface outside of the cutter exhibited only minor weathering. A Geoprobe investigation along Daniels Drive in January 2009 (see Subsection 3.3.4) verified that the cutter observed on Site is also present under the residential area to the west, although the cutter trend is identified only as fractures in the Hermitage Formation that crops out in the valley of Liberty Creek. The position and orientation of bedrock surface irregularities, including cutters, are controlled by fractures. Fractures in the Site vicinity can be observed at small scale in the outcrops of bedrock along the Harpeth River, in the streambed of Liberty Creek, in the orientation of the bedrock cutter near the former tank farm, and in the orientation of segments of

streams, including the Harpeth River. Indeed, the west-northwest orientation of the segment of the Harpeth River nearest the Site approximately mimics the trend of the cutter and fracture system which directs flow of contaminants from ELMCO to Liberty Creek. This fracture set has a bearing of roughly N60W, which is one of the principal fracture orientations in middle Tennessee.

Groundwater flow at the Site is primarily through weathered and fractured zones in the top of rock (particularly in the cutter near the tank farm) and through fractures and/or bedding planes (likely enlarged by weathering) in the bedrock. Hydraulic conductivities in the bedrock aquifer have been estimated using data collected from single-well slug tests as described in the *Report of Additional Solvent Release Investigations* (March 25, 2008). These estimates ranged from 6.4×10^{-7} ft/sec at MW-3 to 4.8×10^{-3} ft/sec at MW-1.

A potentiometric map generated from water-level data collected during March 2015 is presented as Figure 9. Water-level data collected over the course of the project have consistently shown similar groundwater flow characteristics. As shown on Figure 9, water levels are highest in the area near the solvent release point, which is near the eastern end of the cutter/weathered bedrock feature in which the major portion of the contaminant plume, including free-product solvent, migrated to Liberty Creek. From this high point, groundwater moves to the west through the soil and fractured rock of the cutter as well as outward in all directions into the bedrock aquifer, working its way along both bedding plane and vertical fractures, where the contaminant plume is dominated by dissolved phase VOCs. Free product solvent has previously been identified in well MW-3, demonstrating that some free product worked its way into small fractures in the vicinity of the cutter. (No measurable free product has been observed in well MW-3 since it was removed by absorbent booms in March 2008, although a slight sheen was observed on top of groundwater removed from the well in October 2013 and a slight solvent odor was present in March 2015. High concentrations of dissolved toluene continue to be

measured in groundwater samples from this very slow-recovering well.) Other monitoring wells were, and some still are, impacted by dissolved-phase contaminants. It is therefore apparent that the cutter is acting as a linear recharge zone for groundwater in the wider bedrock aquifer, which discharges into Liberty Creek and the Harpeth River.

Based on the estimated hydraulic conductivities obtained from slug testing and the hydraulic gradients shown on the potentiometric map, groundwater flow velocities at the Site are quite variable, ranging from 6×10^{-7} ft/sec to 1.2×10^{-2} ft/sec (roughly 0.05 ft/day to 1,000 ft/day). This wide range is typical of fracture and karst aquifers in which groundwater flow is dominated by secondary porosity, but in which large areas of the aquifer have poorly developed secondary porosity. These values are averages and may not represent the maximum and minimum velocities that could be encountered at any given point in the aquifer. For example, the velocity calculated for the weathered rock and soil in the cutter may not account for the presence of high-velocity fracture/conduit flow observed during construction of the Interceptor Trench. A more realistic approach would be to assume that the higher velocity calculated for the fractured bedrock (1.2×10^{-2} ft/sec, or 1,000 ft/day) is also more representative of the faster velocities expected in the weathered rock/cutter zone. In fact, dye traces performed in early 2010 (see Subsection 3.8) verified rapid groundwater flow rates in the Site vicinity. Dye breakthrough occurred in 31 hours from the tank-farm area to Liberty Creek, and in 28 hours from the tank-farm area to the Harpeth River. These observations correspond to flow velocities of about 600 ft/day and 300 ft/day, respectively. It is also important to note that although high velocities may allow rapid migration of contaminant, lower-velocity portions of the aquifer, such as found in the vicinity of MW-3, may result in significant volumes of contaminant being retained in the aquifer for extended periods of time.

2.4 Administrative History

ELMCO began voluntarily working with TDEC – through the State Remediation Program ("SRP") then within TDEC's Division of Solid Waste Management ("TDSWM") – in early

February 2007 to investigate the source of aromatic and ketone solvents and/or solvent constituents that had been found discharging into Liberty Creek and the Harpeth River located west and south of the Site, respectively. On March 2, 2007, ELMCO discovered that unprotected subsurface elbows in the underground piping on the west side of the Tank Farm (now decommissioned) had corroded and leaked acetone and toluene solvents to the subsurface. ELMCO then promptly assumed responsibility for both investigating and remediating that solvent release "Source Area" and for the response actions that TDEC had initiated to manage the solvent releases into the Harpeth River and, especially, Liberty Creek. These efforts were formally required upon the issuance of the Order on June 1, 2007. The Order required ELMCO to prepare and submit to TDEC corrective action plans to address the contaminated source area soils, the contaminated groundwater, and contaminated soils that TDEC contractors had stockpiled during their initial efforts to excavate an Interceptor Trench near Liberty Creek.

In compliance with the Order, ELMCO has developed and submitted the required corrective action plans and, following or in advance of TDEC approval, implemented them. Of necessity, the corrective action plans have involved additional investigations and monitoring, and these efforts have generated further information concerning the nature, extent, and effects of the contaminants in soil, groundwater, and air which must be factored into the corrective action efforts.

This FCAP is the third corrective action plan (all prepared by TriAD) directed at comprehensively addressing the assessment and cleanup of the solvent release. The first was the *Groundwater Corrective Action Plan* ("GCAP"), dated August 28, 2007. The GCAP described the efforts that had been performed as of that date, and the planned additional efforts, to identify and stop the source of the solvent release, to investigate the nature and extent of contamination in soil, ground water, surface water, and air investigations, and to remediate the release. Remediation efforts had included the underground injection of chemical reagents to cause *in situ* treatment of contaminated

soils in the Source Area (where the solvent releases occurred) at the south end of the Tank Farm, and the excavation and ongoing operation of an Interceptor Trench on private property just east of Liberty Creek to enable capture and removal of free-product solvent before it reaches Liberty Creek.

Following extensive public review and comment (including a public meeting in Franklin on October 10, 2007), TDEC issued on November 20, 2007, a Notice of Deficiency ("NOD") to ELMCO that identified several deficiencies in the GCAP and the course of action that ELMCO must take to correct those deficiencies. Pursuant to that NOD, ELMCO submitted to TDEC an air monitoring plan (prepared by EnSafe and dated December 14, 2007) to evaluate the contaminant levels in ambient air to which the persons living, working, or otherwise occupying structures near the solvent seep discharges into Liberty Creek and the Harpeth River might have long-term exposure. Implementation of this plan and certain additional ambient air monitoring is described in Subsection 3.7.1. Also pursuant to the NOD, ELMCO submitted to TDEC an Investigative Workplan (prepared by TriAD and dated December 20, 2007) that described (1) additional groundwater investigations to further delineate groundwater contamination, (2) confirmation subsurface soil sampling in the known source area at the south end of the former Tank Farm to determine the effectiveness of previous *in situ* soil treatment, (3) confirmation subsurface soil sampling under the former Tank Farm to determine the presence or absence of additional soil source areas, and (4) further site characterization to demonstrate that natural attenuation processes are occurring as suggested in the GCAP. While implementation of both of these work plans was delayed by property access issues, both were subsequently implemented. ELMCO's implementation of items (1) and (4) from the December 20, 2007, Investigative Workplan was reported in TriAD's March 25, 2008, letter "Report of Additional Solvent Release Investigations". Then, following the April 2008 removal of the remaining solvents and aboveground tanks that were in the Tank Farm, ELMCO implemented the efforts described in items (2) and (3) of the Workplan. The performance and results of these confirmation subsurface soil

investigations were reported in two TriAD letter reports – an initial report dated May 30, 2008, and a final report dated June 10, 2008.

The NOD also required ELMCO to submit "a revised Corrective Action Plan" to TDEC within 30 days from the submittal date of the "Site Investigation Report" that reported the results from implementation of the Investigative Workplan. This due date was interpreted to be April 24, 2008, 30 days from the March 25, 2008, letter "Report of Additional Solvent Release Investigations". However, ELMCO requested – in an April 23, 2008, letter from Stites & Harbison PLLC – that the due date for the revised CAP be extended until June 23, 2008, so as to allow additional site characterization information to be obtained from certain planned investigations and to allow a more thorough assessment of risks. This request was verbally granted on April 24, 2008, and the schedule extension was documented in a May 7, 2008, letter from TDEC to Stites & Harbison PLLC. Subsequent discussions with TDEC officials also convinced ELMCO that a formal assessment of both human health and ecological risks needed to be performed and the results factored into the corrective action planning effort.

The second *Revised Comprehensive Corrective Action Plan* ("RCCAP"), was dated June 23, 2008, and submitted to TDEC on that date. This document included updated data from more recent investigations and periodic monitoring, a formal risk assessment report from Secaps Environmental Inc., and an assessment of corrective action needs and options for the various affected media/areas. However, it also still identified data gaps and pending investigations. The RCCAP was also the subject of extensive public review and comment, including another public meeting in Franklin on August 7, 2008. During the process of discussing the RCCAP and the review comments of TDEC staff and contractors and the public, ELMCO and TDEC came to the conclusion that it was premature to try to propose a final remedy for the Site and that certain <u>interim</u> corrective action steps and investigative measures needed to be completed before a final remedy could be recommended. This new approach and certain interim actions were suggested

in a letter dated September 17, 2008, that Stites & Harbison PLLC filed with TDEC on behalf of ELMCO during the public comment period on the RCCAP, and discussed in subsequent meetings between TDEC and ELMCO representatives.

In a response letter dated September 29, 2008, TDSWM-SRP requested that ELMCO proceed with accelerated implementation of two of the proposed interim actions: (1) dual-phase vacuum extraction efforts to remove contaminants from subsurface soils in the Source Area (where the subsurface solvent releases occurred) at the south end of the former Tank Farm, and (2) removal of settled solids from the bottom of the Interceptor Trench and intensive pumping of groundwater to accelerate free-product solvent removal and evaluate the continuing viability of the trench for such purposes. ELMCO had already initiated the on-Site Source Area vacuum extraction efforts but continued to be unable to gain the access approval from the property owner necessary to enable the planned work at and around the Interceptor Trench. As a result, TDEC was forced to utilize its authority to mobilize its own contractor to do the work just as it had for some earlier sampling efforts around the Interceptor Trench. As a result of TDEC's negotiations with the property owner, however, the scope of work changed to include the conversion of the open-trench system into an enclosed subsurface system involving sumps to collect the inflow of water and free-product solvent and an infiltration gallery to disperse the pumped groundwater back into the subsurface. This work was completed in early December 2008.

After completing its review of the RCCAP and its responses to the public comments received on the RCCAP, TDEC issued in November 2008 their responses to the public comments and a report known as the *ELMCO Status Report – November 2008* in which TDEC identified seven interim action steps that must be taken before a final corrective action strategy for the Site could be selected. Over the next year and a half, these interim action efforts were successfully planned and implemented. In an October 30, 2009, letter to the TDSWM-SRP, TriAD (on behalf of ELMCO) summarized the completion status of each of the interim actions, concluded that the interim measures had been completed

except for those that were intended to be ongoing, and requested TDEC's concurrence with these determinations. On March 24, 2010, the TDSWM-SRP issued a letter to TriAD concurring with TriAD's determinations. Following is a brief summary of the seven required interim actions and their current status:

Interim Action #1 – Additional investigations to better define the extent of solvent contamination in the soil and groundwater in the vicinity of the Site

On behalf of ELMCO, TriAD actually collected the additional soil samples and installed the additional groundwater monitoring wells necessary to respond to this requirement in August and September of 2008, and quarterly sampling of groundwater was initiated. (See Subsections 3.3.3 and 3.5.) TriAD concluded in its October 30, 2009, letter that the investigations to define the extent of soil and groundwater contamination were complete, and TDEC concurred with this determination in TDSWM-SRP's March 24, 2010, letter.

Interim Action #2 – A soil gas survey in the Daniels Drive area to determine if there are solvent vapors in local soil that could adversely impact human health (i.e., through vapor intrusion into residences) and to determine the bedrock surface profile and its impact on the migration of solvents through soil and groundwater

On behalf of ELMCO, TriAD prepared a detailed plan for performing this work, received TDEC approval of the work plan, implemented the approved work plan in January 2009, and submitted detailed reports to TDEC on both the soil gas investigation and the bedrock evaluation. (See Subsections 3.3.4 and 3.7.2.) TriAD concluded in its October 30, 2009, letter that these efforts had been completed, that subsurface vapors do not pose a significant risk to Daniels Drive residents, and that no further efforts to address such risks were needed. TDEC had some concerns that TriAD's soil gas investigation did not adequately assess the threat of solvent vapor intrusion into the Daniels Drive homes, and subsequently planned and implemented – with assistance from personnel from the

Tennessee Department of Health's Environmental Epidemiology Program – their own investigation of solvent concentrations in indoor air in three targeted residences in January 2010. (See Subsection 3.7.3.) In TDSWM-SRP's subsequent March 24, 2010, letter, TDEC concurred that the assessment of impacts from soil vapor had been completed. This decision was later partially reversed and TDEC requested additional monitoring of soil vapor on Daniels Drive, as described in Subsection 3.7.2.

Interim Action #3 – Rehabilitation of the interceptor trench into a closed subsurface system and the operation of such system to intercept and collect for removal free-product solvent moving from ELMCO to Liberty Creek

As previously noted, the actual conversion of the Interceptor Trench into a closed subsurface system was principally completed in late 2008 by TDEC contractors. After subsequently gaining the necessary access agreement with the property owner, ELMCO and TriAD completed installation of an automated pumping system and initiated groundwater pumping and free-product solvent recovery operations in April 2009. With free-product solvent recovery operations ongoing, TriAD concluded in its October 30, 2009, letter that the trench rehabilitation efforts had been completed, and TDEC concurred with this determination in TDSWM-SRP's subsequent March 24, 2010, letter.

ELMCO continued those operations – except when restricted by high groundwater conditions – through 2009 and 2010 as actual capture and recovery of free-product solvent dwindled to nothing. (See Subsection 3.2.3.) In the spring of 2011, ELMCO and TriAD worked with TDSWM-SRP to develop and implement a plan for aggressively testing the free-product solvent recovery capabilities of the subsurface recovery system. This testing demonstrated that no flow of free-product solvent could be induced by the system, and the subsurface system was permanently closed in November and December 2011 in accordance with a closure plan approved by TDSWM-SRP. (See Subsection 3.2.4.)

Interim Action #4 – Management of soil stockpiles from trench excavations to rehabilitate the trench and contour the former trench and soil stockpile area in a manner acceptable to the property owner

As indicated above, much of the Interceptor Trench rehabilitation work had been completed by TDEC contractors in late 2008. The remaining site restoration work was completed (i.e., by seeding and mulching) on October 13, 2009, in accordance with a plan approved by the property owner, and to his stated satisfaction. Subsequent site visits later in 2009 and in early 2010 found that the vegetative cover had become well established. TriAD concluded in its October 30, 2009, letter that the stockpiled soil management efforts had been completed, and TDEC concurred with this determination in TDSWM-SRP's subsequent March 24, 2010, letter.

Interim Action #5 – Install and operate a Dual Phase Soil Vapor Extraction System in the Source Area at the ELMCO facility to remove solvent vapors and liquid solvent from subsurface soil and ground water and lower the amount of solvent migrating from the Source Area via the groundwater into Liberty Creek and the Harpeth River

As previously described, ELMCO had initiated vapor extraction efforts in the on-Site Source Area well before TDEC's issuance of the *ELMCO Status Report – November 2008*. Using multiple vapor extraction wells installed in two separate phases, nearby groundwater monitoring wells, and expert services and vapor extraction/management equipment contracted from EcoVac Services, ELMCO and TriAD performed several phases of vapor and/or liquid extraction from the Source Area from July 2008 to June 2009. These efforts involved high-vacuum, short-duration, dual-phase extraction efforts in combination with low-vacuum, longer-term, soil vapor extraction efforts, and were successful at removing several thousand gallons of solvent constituents. (See Subsection 3.4.) As noted in TriAD's October 30, 2009, letter, these efforts were terminated in June 2009 with

the determinations that (1) solvent concentrations in soils had dropped below the point where vapor extraction was cost-effective, and (2) there were no more floating free-product solvent deposits in the Source Area that are amenable to removal by vapor extraction. TDEC concurred with these determinations in TDSWM-SRP's subsequent March 24, 2010, letter.

Interim Action #6 – Continued monitoring of water quality in Liberty Creek and the Harpeth River to evaluate solvent constituent concentrations and the effectiveness of remedial efforts

In accordance with plans approved by TDEC, ELMCO (through TriAD) has continued to periodically collect and analyze water samples from various seep and surface water monitoring points and to evaluate and report the results to TDEC. (See Subsection 3.6.) ELMCO's compliance with this ongoing responsibility was noted in TriAD's October 30, 2009 letter, and TDEC concurred that ELMCO was complying in TDSWM-SRP's subsequent March 24, 2010 letter. As monitoring has continued over time and concentrations have declined, monitoring frequency has been reduced from monthly to quarterly and now semi-annually, and certain monitoring points have been eliminated. The last water-quality monitoring effort by TDEC Nashville Field Office personnel was performed on August 30, 2010.

Interim Action #7 – Operation of a real-time vapor monitoring system at the BGA Lower School to enable faculty and student evacuation or other appropriate actions to ensure protection from organic vapors

ELMCO provided the funds to BGA to purchase and install a real-time vapor monitoring and alarm system, and ELMCO understands that it was operated for (at least) several months in 2009 with no alarms triggered. TriAD noted in its October 30, 2009, letter that this interim action should be considered complete, and TDEC concurred with that determination in TDSWM-SRP's March 24, 2010, letter. The current operational status of the vapor monitoring system is unknown,

but it should be noted that any organic vapor risks to school personnel have greatly diminished over time as the free-product solvent discharges into Liberty Creek have dwindled to nothing. With no observations of free-product solvent discharges for several years and the complete closure of the trench and closed subsurface collection systems, no further real-time monitoring seems to be warranted.

In its *ELMCO Status Report – November 2008*, TDEC noted that upon the completion of the interim actions needed to sufficiently identify the horizontal and vertical extent of solvent contamination in soil and groundwater, ELMCO must submit to TDEC two documents: "(1) a Risk Assessment which determines the clean-up criteria for soil and ground water contamination, and (2) a Corrective Action Plan that proposes the technologies and strategies ELMCO will use to achieve the clean-up criteria as proposed in the Risk Assessment." This latter document would thus propose the "final remedy" for cleaning up the solvent release. In the March 24, 2010, letter concurring that ELMCO had completed the interim measures except those that were intended to be ongoing, TDSWM-SRP expressed a desire to schedule a meeting with ELMCO representatives "to determine the additional steps that may be necessary before ELMCO will be able to propose the final remedy". By mutual unwritten agreement, however, this meeting was deferred indefinitely while certain additional active groundwater remediation efforts were implemented and routine, periodic monitoring of groundwater and surface water was performed to collect additional information for assessing the effectiveness of past and ongoing remediation efforts and the possible need for additional efforts.

The additional active groundwater remediation efforts involved biostimulation to encourage aerobic biodegradation of the organic contaminants in groundwater in and down-gradient of the Source Area. These groundwater biostimulation efforts were not suggested or required by TDEC, but were performed by AquAeTer, Inc., on behalf of ELMCO as part of settlement of private litigation. Based on dye trace testing of groundwater flow and bench-scale treatability testing of Site groundwater, AquAeTer

designed and implemented in 2010 and 2011 a one-year biostimulation program involving the essentially continuous drip injection of a patented biostimulant solution into the groundwater via two of the deeper vapor extraction wells in the Source Area and the nearest down-gradient groundwater monitoring well. During the year-long injection effort and for another two years (now ended) after injection was terminated, AquAeTer also performed periodic monitoring of the groundwater at the three injection points and certain other locations. AquAeTer reported from their monitoring efforts that the biostimulant injections were able to achieve substantive reduction of contaminant concentrations in the injection wells, but the contaminant concentrations in the injection wells substantially recovered after injections were terminated. ELMCO and TriAD's evaluation of groundwater and surface water monitoring data found no indication that the biostimulation efforts were successful in measurably reducing contaminant concentrations in the overall aquifer or in Liberty Creek which receives the contaminated aquifer discharge (see Subsection 3.8.). Consequently, ELMCO decided not to pursue AquAeTer's recommendation to continue the drip injection program.

In late 2011, with operations at the former trench determined no longer effective or needed, biostimulation efforts determined to be insufficiently effective and terminated, and ongoing monitoring efforts showing gradually diminishing contaminant concentrations, ELMCO decided to pursue with TDEC a final remedy determination for the Site. Over the next several months, a number of meetings were held between ELMCO and TDEC representatives to update TDEC personnel on the status of activities at the Site, to discuss more recent data from ongoing monitoring, and to discuss the path toward a final remedy for the Site. Because of the transfer of the State Remediation Program from TDSWM to the Division of Remediation ("TDOR"), it was also necessary to familiarize newly involved TDEC personnel with the Site and remaining issues.

In a key meeting on June 19, 2012, TDOR expressed its general determinations that the Site had been adequately investigated, that the potential risks of the remaining

contamination had generally been adequately assessed, and that no further active remediation efforts were expected to be needed to reduce residual contamination concentrations in the subsurface soils, groundwater, or surface water at and around the Site. However, TDOR did express concerns that (1) the potential risks (in particular from solvent vapor inhalation) to children playing in Liberty Creek had not been adequately assessed, and (2) some periodic monitoring of soil vapors in the Daniels Drive area was needed to help ensure that the low potential for vapor intrusion risks would not increase over time.

In response to TDOR's first concern, ELMCO and TriAD worked with TDOR to develop and implement a plan for collection and analysis of an ambient air sample from a point above the Liberty Creek stream bed that was representative of the breathing zone of a child wading in the stream. The analytical results for this August 2012 air sample were then used by ELMCO contractor Secaps Environmental, Inc., to re-evaluate the risks to which a child playing in the stream might be exposed. This limited re-evaluation of human health risk was reported to TDOR in Secaps' October 2012 *Addendum* to its 2008 Risk Assessment, and confirmed the original 2008 finding of no significant human health risk. (See Section 5.)

In response to TDOR's second concern, ELMCO and TriAD first worked with TDOR to develop the conceptual framework of a long-term soil vapor monitoring program, and then TriAD (on behalf of ELMCO) prepared and submitted a detailed work plan for such a program for TDOR's review and approval on November 8, 2012. In a letter to TriAD dated January 31, 2013, TDOR conditionally approved this work plan. ELMCO and TriAD implemented the approved plan (with TDOR-approved modifications) from May 2013 to April 2014. This evaluation found no evidence of a significant increasing trend in soil-gas concentrations, and TDOR agreed that there was no evidence that unacceptable risk to local residents exists or was likely to exist in the future. TDOR found no need to continue the monitoring and approved its termination in a letter dated September 30, 2014.

An additional meeting was held with TDOR on April 17, 2015, to discuss the most recent surface water and groundwater monitoring results and to discuss the content and processing of the FCAP required by the Order. This meeting, and the above-described efforts, have led to the development of this FCAP, which describes the proposed final remedy for the Site. This FCAP is being submitted to TDOR for review and approval, and may be modified in response to TDOR comments so as to gain such approval. Upon TDOR approval of the FCAP, ELMCO will implement the final remedy it describes.

3.0 SUMMARY OF RESPONSE ACTIONS PERFORMED

In addition to the efforts described in Subsections 2.2.1 and 2.2.2 to identify and eliminate the source of the solvent release, ELMCO has – in conjunction with TDEC – planned and implemented a number of subsequent response actions to investigate the nature and extent of contamination in soil, groundwater, surface water, and air, to assess the potential human health and ecological risks of such contamination, and to clean up the contamination or otherwise ameliorate such risks. In the following subsections, the major actions performed in response to the ELMCO solvent release are summarized. Most of these actions have been described and documented in earlier submittals to TDEC, which are referenced.

3.1 Decommissioning of Tank Farm Systems

In April 2008, in accordance with TriAD's December 20, 2007, *Investigative Workplan*, the aboveground tanks and remaining aboveground piping were decontaminated, demolished, and removed from the Site. All decontamination fluids were contained and subsequently disposed of off-Site as manifested hazardous waste.

3.2 Solvent Capture at Liberty Creek

The free-product solvent seeping into Liberty Creek was always considered the greatest hazard posed by the ELMCO solvent release, and control and capture of this free-product solvent was a primary response goal from the day free-product solvent was discovered

in the creek in February 2007. This was needed both to reduce water quality impacts to Liberty Creek and the Harpeth River and – most importantly – to reduce the potential human health impacts of vapor emissions from the floating solvent layer. Control methods included primarily the use of sorbent pads and booms to capture and remove the floating free-product solvent, the excavation of trenches to intercept the flow of free-product solvent before it entered Liberty Creek, and the use of floating balls to control volatilization. All such measures were taken in consultation with TDEC. Reports by TriAD and TDEC contractors documenting such procedures include the following:

Groundwater Corrective Action Plan, TriAD, August 28, 2007

Revised Comprehensive Corrective Action Plan, TriAD, June 23, 2008

Plan for Additional Non-Routine Work at the Liberty Creek Interceptor Trench and Soil Pile Area, TriAD, May 20, 2008

Plan for Soil Pile and Interceptor Trench Sampling, Trench Cleanout and Aggressive Pumping of the Middle Trench, EME, July 2008

Soil Pile and Interceptor Trench Sampling, EME, September 4, 2008

Summary of activities and recommendations letter, EME, November 3, 2008

Test of Product Recovery System, EME, November 17, 2008

Status of Product Recovery System, EME, December 1, 2008

ELMCO Status Report – November 2008 by TDEC and *Recommendations for Remediation*, memo, SAIC and EME, December 15, 2008

Plan for Final Testing of Liberty Creek Trench/Sump System, TriAD, June 8, 2011

Results of Testing of Liberty Creek Solvent Recovery System, TriAD, September 15, 2011

Plan for Final Closure of Liberty Creek Trench/Sump System, TriAD, September 15, 2011

Report of Final Closure of Liberty Creek Trench/Sump System, TriAD, February 23, 2012

The following subsections summarize the efforts made to capture and remove solvent from the Liberty Creek area. No efforts were made to try to keep up with the total amount of free-product solvent so captured and removed, but it is estimated at several hundred gallons.

It is important to note that although sorbent booms were also installed and maintained at points along the Harpeth River, no free product was ever recovered on those booms or was ever observed entering the Harpeth River. The booms were removed, with TDEC approval, when contaminant concentrations dropped to the point at which there was deemed to be no further risk of free-product contamination of the river.

3.2.1 Initial Solvent Capture and Control Response Actions

Beginning February 8, 2007, immediately upon discovery of free-product solvent (primarily toluene) entering Liberty Creek at the main seep, ELMCO responded with efforts to contain the product using sorbent booms and pads that captured the floating organic solvent product but repelled water. The effort was then taken over by TDEC (through TDEC contractor EnSafe) until March 2, 2007, when ELMCO resumed responsibility (with oversight by TriAD). Both EnSafe and ELMCO utilized the services of remediation contractor Ops Contracting Services ("OCS"), for these efforts. During the tenure of TDEC/Ensafe, an attempt was made to dig an interception trench on the east side of Liberty Creek. Although this trench succeeded in recovering a small amount of free product, it was not effective at preventing product from entering the creek, and was backfilled in July 2007.

During the spring and summer of 2007, ELMCO/OCS continued capturing free-product solvent using sorbent booms and pads that were changed out as they became saturated with solvent, initially on a twice-daily basis and then less frequently as the discharge of free-product solvent diminished. Floating layers of plastic balls were used to reduce the volatilization of the free product, thereby reducing airborne vapor transport and allowing

greater recovery of product. These efforts prevented free-product solvent or sheens from migrating down Liberty Creek to the Harpeth River, and continued until late summer 2007, after construction of the second interceptor trench. The used booms and pads holding captured solvent were containerized in 55-gallon steel drums and transported back to ELMCO for accumulation and classification prior to being properly shipped off-site for recycling at a permitted hazardous waste management facility.

3.2.2 Excavation and Operation of Interceptor Trench

A second interception/recovery trench was constructed in the valley of Liberty Creek during the period July 27 to August 24, 2007. Under TriAD's direction, OCS excavated this trench using trackhoe and hoe-ram equipment in the approximate locations shown on Figures 1 and 2. A cross section of the trench is presented as Figure 4. The trench was approximately 140 feet long and ranged from approximately 11 to 17 feet deep. Its length and depth were designed to intercept the free-product solvent flow that had been discharging into Liberty Creek. It was excavated into bedrock, where a 1- to 5-foot thick layer of weathered rock was encountered, thinning to the south. The bottom elevation of the trench ranged from about 611 feet above MSL at the north end to about 607 feet above MSL at the south end. As noted previously, the elevation of the Main Seep in Liberty Creek is approximately 611 feet above MSL.

During trench construction, four locations were encountered where groundwater flowed into the excavation. At approximately 20 feet from the north end, a small flow of water entered the trench from the east side at an elevation of about 611 feet above MSL. This water, though apparently contaminated (based on PID and olfactory evidence), did not contain measurable free-product solvent. At approximately 87 and 89 feet from the north end, flows of water entered the trench from the east side at elevations of approximately 609 feet and 608 feet above MSL, respectively. Both flows of water were accompanied by free-product toluene. An additional flow of mixed water and free product was encountered at approximately 102 feet from the north end of the trench at an elevation of

approximately 607 feet above MSL. No additional free product was encountered in the remaining 38 feet of trench.

As the water level rose in the trench (apparently because of semi-confined conditions in the water-bearing zones), the inflows of free-product solvent were reduced or eliminated, as had happened at wells AR-1 and RW-1 near the tank farm (see Subsection 3.5). To facilitate recovery of the free product, it was necessary to eliminate this “hydraulic barrier” by keeping the water level artificially lowered in the section of trench into which the product could flow. For this reason, and to confine the floating free-product solvent into a smaller area from which it could be more effectively captured and removed using sorbent booms, dams were constructed across the trench to the north and south of the three free-product solvent seeps. These dams allowed water to be pumped from the free-product-solvent-generating middle section of the trench into the much larger northern section. This water was pumped via an intrinsically safe pump (to eliminate the danger of ignition of the free product toluene) and via a submerged inlet (to eliminate the risk of pumping product with the water). Sorbent booms were also used in the northern trench to capture any entrained free-phase product that might have been discharged. The pumped water, which contained dissolved-phase acetone and toluene, was then allowed to infiltrate the ground through the sides and bottom of the north section of the trench, to either continue on to Liberty Creek or to return to the central portion of the trench from where it could again be pumped. This intermittent pumping allowed the flow of free-product solvent into the trench, where it was captured from the water surface by sorbent booms. Again, the used booms and pads holding captured solvent were containerized in 55-gallon steel drums and transported back to ELMCO for accumulation and classification prior to being properly shipped off-site for recycling at a permitted hazardous waste management facility.

Very soon after trench operations began there was a noticeable decrease in free- product solvent entering Liberty Creek. Small amounts of product or sheen were intermittently

observed during the fall and early winter of 2007, with some occasionally being trapped by the sorbent booms that were being maintained in place around the main seep at Liberty Creek. By late winter and early spring of 2008, free-product solvent was no longer being observed or trapped in booms at Liberty Creek.

Operation of the trench continued through the fall of 2007. During the winter of 2008 access issues with the property owner arose that resulted in delays in trench operation, and increased rainfall caused significant water-level increases in the trench. Also during the winter, some slumping of soil from the east wall of the central portion of the trench occurred in an area where free product had been observed entering the trench. As water levels declined, periodic trench pumping operations were resumed in April 2008 – initially by a TDEC contractor and then by ELMCO's contractor OCS when ELMCO completed access agreements with the landowner. It quickly became evident that the trench, at least with the slumped portion of the east wall, was not producing free product, nor was free product being observed in the creek. After several weeks of intermittent pumping, trench operations were suspended until repairs could be effected. A work plan for such repairs was submitted to TDEC. During the suspension of trench operations, crews continued to check the Interceptor Trench and Liberty Creek for free-product solvent accumulation, and to inspect, and replace as needed, the sorbent booms in the trench and creek.

In August 2008, again due to access restrictions imposed on ELMCO by the landowner, TDEC contractor Environmental Management and Engineering, Inc. ("EME") performed sampling and analysis of soil from the stockpile of soil that had been excavated from the trench and also undertook repairs to the trench. The soil pile, which consisted of approximately 500 cubic yards, had been placed in a clearing south of the trench area. EME's work, which consisted primarily of implementing TriAD's earlier stockpile sampling plan, demonstrated that the stockpile did not contain concentrations of COCs exceeding EPA residential soil screening levels. Samples of water collected from the trench during this investigation showed concentrations of toluene below the aqueous solubility level,

but high enough to indicate the proximity of free product. At the request of TDEC, EME also collected samples of dark-gray-stained sediment at the mouth of LC-MS. The dark staining was reported to contain microbes known to be anaerobic degraders of VOCs.

EME began trench repair and pumping operations in October 2008. As part of this effort, the southernmost portion of the trench, in which free product had never been observed, was backfilled. As the trench was repaired, product solvent was immediately observed and recovered using sorbent booms and pads. Pumping of the repaired, open trench continued into November, with several gallons of free product recovered. As with previous pumping, it was found that the water level in the trench had to be drawn down to at least the level of the top of rock to allow free product to enter. When water was allowed to rise to its potentiometric level, it formed a hydraulic barrier, preventing recovery of free product.

3.2.3 Trench Conversion to Subsurface System

In November 2008, EME, working with plans developed in consultation with TriAD and TDEC, installed corrugated metal pipe, geotextile filter fabric, and crushed stone into the trenches to convert the open recovery trench to a subsurface system. Two subsurface units (accessed via vertical sumps) resulted from this work – a free-product collection unit (corresponding to the earlier middle trench) from which floating free-product solvent could be captured and removed using sorbent booms, and an infiltration unit (corresponding to the earlier northern trench) into which groundwater from the collection unit (contaminated but free of floating solvent product) could be pumped to facilitate free-product solvent flow. A schematic diagram of the enclosed trench system is included as Figure 5. As part of this conversion of the open trenches to subsurface systems, the fence that had secured the open trench was removed and much of the stockpiled soil (that had been tested and found sufficiently “clean” in August 2008) was spread over and around the trench area.

During the completion of the trench conversion in December 2008 and occasionally for a time afterward, EME used portable surface pumps and hosing to pump groundwater from the collection sump into the sump that fed the infiltration gallery and thereby induced some flow of free-product solvent that was captured and removed using sorbent booms. However, as had been seen the previous winter, there was little opportunity in the winter of 2008-2009 to attempt such solvent recovery efforts. When water levels rose as a result of precipitation, the northern trench could not handle the volume of water pumped from the southern trench, and recovery could not be accomplished. During this period, ELMCO again gained property access to the Liberty Creek area and began planning to convert the trench system into an automated recovery system using a float-controlled, intrinsically safe submersible pump. The planned system would allow continuous pumping, drawing the water down to the level at which free product could enter the trench and be recovered on absorbent booms. The electric power line needed to operate such a system was installed underground across private property from a power line pole and meter on the Daniels Drive cul-de-sac in early spring 2009. The automated pumping system was installed and began operation in April 2009.

Operation of the subsurface trench system continued, as groundwater levels permitted, throughout the summer and fall of 2009, and then was suspended due to almost continuous high water levels during the winter of 2009-2010. When pumping resumed in early 2010, it was observed that only small quantities of free-product solvent, which quickly dissipated through volatilization into the air, could be induced to flow into the collection sump. By spring 2010, no additional free-product solvent was being recovered. Solvent recovery operations continued until December 2010, although they were frequently suspended as it became increasingly difficult to disperse the pumped groundwater via the infiltration gallery in the former northern trench, where sediment was believed to be interfering with effective drainage of the water.

3.2.4 Final Testing and Closure of Solvent Capture System

By spring 2011, it was apparent to ELMCO that the subsurface solvent capture system installed in the former trench could no longer be effectively used to capture and remove free-product solvent from the subsurface. It seemed that the flow of free-phase solvent through the bedrock cutter system had stopped. No free-product solvent had been observed in the collection sump or at the Liberty Creek seeps in months, and toluene concentrations in groundwater samples collected from the collection sump and the Main Seep into Liberty Creek had dropped to approximately one-fourth of the aqueous solubility (indicating that no free product was proximal to the trench or Liberty Creek). However, before the subsurface system was decommissioned and permanently closed, ELMCO and TDEC agreed that the system should be aggressively tested to confirm that no more free-product solvent could be recovered. ELMCO (through TriAD) then submitted a plan for such a testing event. After discussions, TDEC approved the plan but required that two separate pumping and recovery tests – one in the spring "wet" season and one in the summer "dry" season be performed.

Tests were conducted on June 30 and September 2, 2011, by pumping the groundwater in the collection sump down to the level (below the top of the bedrock) required to allow the floating free-product solvent to enter. Each test, observed by TDEC personnel, involved repeating the pumping three times to ensure that maximum flow of water and any potential free-product solvent had been achieved. No free-product solvent was observed during either test. In fact, no solvent odors were noted at the ground surface during either test, and samples of water retrieved from the collection sump exhibited only slight solvent odor and some bacterial sheen. This was a significant change from earlier solvent recovery operations at the open trench, when solvent odors were present in the vicinity of the trench and water exhibited very strong odor and organic product sheen.

Based on the results of the tests, TDEC agreed that the subsurface solvent recovery system should be permanently closed. ELMCO (through TriAD) submitted a plan for such

closure to TDEC which was subsequently approved and then implemented in November and December 2011. The electrical line and pump control box were removed; the steel standpipes were cut off below ground surface and the sumps filled with clean gravel; the subsurface infiltration gallery pipes were opened from the surface and filled with concrete-based flowable fill; and the area was regraded with some imported topsoil and then seeded and mulched.

3.3 Soil Investigation and Remediation

As described in Subsection 2.2, the solvents that leaked from the corroded elbows in the underground piping near the south end of the former ELMCO tank farm migrated downward into the underlying soils and ultimately into the underlying bedrock and groundwater, and then laterally with the groundwater to emerge at seeps into Liberty Creek. Although the actual solvent releases from the pipelines were promptly stopped in February 2007, the solvent-saturated soils represented a source of continuing contaminant releases to the groundwater. The soil contamination in this Source Area has thus been subjected to several phases of investigation and remediation. This subsection describes the efforts performed to define the nature and extent of such soil contamination, and the efforts to remediate it exclusive of the vacuum extraction efforts described in Subsection 3.4. These efforts were planned and performed by ELMCO and TriAD, and were reported to TDEC in the following TriAD documents:

Data Report of Soil Investigation Results, April 11, 2007 (initial pipeline test pit and tank farm Geoprobe investigations)
Source Area Soils CAP Implementation Report 1, June 22, 2007 (BIOX Treatment)

Groundwater Corrective Action Plan, August 28, 2007

Initial Report of Confirmation Soil Investigations Under Former Tank Farm and in BIOX Treatment Area at ELMCO Facility, May 30, 2008 (Geoprobe investigation with boring logs)

Final Report of Confirmation Soil Investigations Under Former Tank Farm and in BIOX Treatment Area at ELMCO Facility, June 10, 2008 (Geoprobe investigation with cross sections)

Report of Bedrock Surface Data – Daniels Drive Area, July 27, 2009 (Geoprobe investigations with cross sections)

Interim Measures Update/Completeness Determination, October 30, 2009 (reported completion of source-area soil remediation efforts)

The following subsections summarize these soil investigation and remediation efforts.

3.3.1 Initial Characterization of Source Area

Initial characterization of the source area contamination began with the February and March 2007 excavation and partial removal of the underground pipelines used to transfer solvent product from the tank farm to the manufacturing building at the ELMCO facility. During the excavation and inspection of the solvent product lines at the tank farm end, a zone of significant soil contamination, centered on the pipe elbows below the pumps at the south end of the tank farm, was discovered. Soil samples collected from this area exhibited high concentrations of solvent-related VOCs. This contamination was observed to decrease with horizontal distance from the pipe elbows. The pipes, with the exception of the elbows, were observed to be wrapped with a yellow plastic coating. This coating exhibited several feet of discoloration where solvent had migrated by capillary action between the wrapping and the outside of the steel pipe, beginning at the unwrapped portion of the pipe near the tank-farm pipe elbows. This discoloration did not correspond to indications of solvent release to underlying soil, but did provide evidence of a solvent leak from the pipe.

During and immediately following the excavation of the leaking pipe elbows at the south end of the tank farm, 10 test pits were excavated, labeled Pump Pit and TP-1 through TP-9. These pits were located at the former pipe elbows at the tank farm end – where leaking toluene and acetone pipes were confirmed – and spaced along the length of the underground lines, including the pipe elbows at the factory end of the lines. The pits were excavated (using a mini-excavator) to a minimum depth of 3 feet below ground surface (bgs), with most excavated to 7 or 8 feet bgs. In several of the pits, the product lines were at least partially exposed so they could be visually inspected. In all cases except the pipe

elbows at the tank farm end, the pipes were observed to be coated in plastic and/or wrapped in plastic tape and were observed to be in good condition, with no discoloration to indicate capillary migration of solvent along the plastic coating. During excavation, the removed soil was visually logged and screened using an organic vapor meter ("OVM") to assess the soil for the presence of VOCs indicative of the released solvents. A soil sample from each pit was also collected for quantitative analysis of VOCs by US EPA Method 8260B at Environmental Science Corporation ("ESC") in Mt. Juliet, Tennessee. Following the sample collection, the test pits were closed by re-placing and compacting the excavated soil using the excavator bucket and tracks.

Both the OVM screening and analytical data obtained from the test pit investigation indicated that the only VOC impact to soil existed in the vicinity of the tank farm. The sample from Pump Pit, collected at 8.5 feet bgs, showed 24,000 mg/kg acetone, 10,000 mg/kg toluene, and smaller concentrations of naphthalene and 1,2,4-trimethylbenzene. Because of the high concentrations of acetone and toluene, the detection limits for other VOC constituents were higher than normal and therefore these constituents may not have been detected. (Note: The naphthalene detected in the Pump Pit sample appears to have been an anomaly, possibly a lab error. Naphthalene was reported at a trace concentration in only one other soil sample from the Site, and was not detected in soil vapor samples collected during the vacuum extraction remediation described in Subsection 3.4.) Soil samples from all other test pits (TP-1 through TP-9), including a sample collected directly beneath the pipe elbows at the factory end, contained no detectable concentrations of VOCs, indicating no release of solvents had occurred at or near these locations.

After completion of the test-pit investigation, a second phase of soil investigation was performed in March 2007 that involved drilling 20 soil borings with a Geoprobe direct-push rig, screening and logging the retrieved soil samples, and submitting selected samples to ESC for analysis of VOCs. The soil borings were located in the area around

the tank farm, including all four sides of the tank farm containment wall and in the area to the south and west of the tank farm where the previous investigation had detected solvent constituents. (Note: The presence of tanks and aboveground pipelines holding organic solvents prohibited the location of any soil borings inside the tank farm itself.) All borings were advanced to refusal, presumably on bedrock. The top-of-rock data thus generated indicated the presence of a northwest-southeast trending bedrock cutter in very close proximity to the tank-farm pump area. During the Geoprobe investigation, an OVM was again used to screen the retrieved soil cores for their relative presence of VOCs, and soil samples were selected on the basis of the OVM screening. At least one soil sample from each boring – the sample from nearest the top of rock – was analyzed for VOCs in the lab. In virtually every boring where OVM readings above background were recorded, the interval above the top of rock showed the highest OVM reading (the principal exception was the boring advanced at the former pipe elbow location, where maximum OVM readings were recorded throughout the soil column). In several borings, additional samples from higher in the borehole were also sent to the lab for analysis.

The OVM and analytical results from the Geoprobe investigation showed that solvent constituents were present in the soil on the south side of the tank farm and extending westward. The Geoprobe and test-pit data showed that the leaking pipes at the former tank-farm pump area resulted in a column of VOC-impacted soil that extended to the top of rock. This column of soil was roughly 75 feet long (east to west), 40 feet wide (north to south) and 20 to 30 feet deep. Upon reaching the top of rock, the solvent constituents apparently spread out, following the lowest elevations in the bedrock surface, creating a thin zone of VOC-impacted soil over 100 feet long (east to west) and roughly 40 feet wide (north to south). The western limit of the toluene-impacted portion of this zone was not encountered in the borings – the farthest western boring showed 5,800 mg/kg toluene at the soil-bedrock interface (35.5 feet bgs). Steep surface topography, dense vegetation, and, ultimately, the property boundary, prevented further exploration in this direction at that time.

It is important to note that no VOC impact was found in soil borings on the north, northwest, or northeast sides of the tank farm, and only trace amounts were detected on the southwest and southeast sides, nearer the impacted zone on the south side. There was therefore no indication of a general release of solvent from the tank farm, but only from the former underground piping elbow area on the south side of the tank farm. It is also important to note that several other VOCs were reported in soil samples collected from the Geoprobe borings. These constituents were present at much lower concentrations than the primary contaminants toluene and acetone, and included ethylbenzene, MIBK, MEK, xylenes, bromoform, and 1,1,2-trichloroethane.

3.3.2 BIOX Injection Effort

The March 2007 Geoprobe investigation confirmed that the leak from the underground pipe elbows at the Tank Farm was very likely the source of the VOC impact to Liberty Creek and found the Source Area soil contamination to be principally confined to a relatively small (75-foot by 40-foot) but deep (20-30 feet) soil zone at the south end of the tank farm. Based on this information, TriAD worked in April and May 2007 with BioManagement Services, Inc., to design and implement an in-situ, source-area soil remediation effort involving the subsurface injection of a chemical oxidant and biological nutrients. In early June 2007, Geoprobe direct-push technology was used to inject into the contaminated soil column a liquid treatment reagent produced by BioManagement Services, Inc., known as “BIOX”. The treatment solution included solid peroxides, pH buffers, and nutrients to enhance biological activity, and was designed to combine chemical oxidation and enhanced aerobic bio-degradation to significantly reduce the concentrations of VOCs present in the treated area. A total of 3,249 gallons of BIOX formulation was injected into the contaminated soil column through 33 injection points spaced roughly 4 feet apart. The injection was performed pursuant to a TDEC-issued Class V Injection well permit. As summarized in the following subsection, the BIOX effort

was not successful in achieving significant reductions in source-area contaminant concentrations.

3.3.3 Follow-Up Confirmation and Extent Investigations in Source Area

An additional phase of soil investigation was performed in the Source Area in May 2008 to achieve two goals; to determine whether soil under the tank farm concrete pad had been significantly impacted by the solvent release, and to establish whether the BIOX treatment had been effective. The investigation under the tank pad could not be performed until the tanks had been removed, and TDEC approved a plan and schedule of investigation that was linked to the tank removal (which was completed in April 2008). The May 2008 effort was another Geoprobe direct push investigation involving nine strategically located soil borings advanced to refusal (presumably on bedrock), the visual logging and OVM screening of the retrieved soil cores, the collection of soil samples from these soil cores based on their vertical position and the OVM results, and the laboratory analysis of the collected soil samples for VOCs. The investigation revealed three important findings:

1) Soil beneath the former tank farm pad was not significantly impacted by solvent constituents, with the exception of a narrow area under the south edge of the pad, directly adjacent to the location of the leaking underground pipe elbows.

2) The BIOX treatment was not effective in significantly reducing the concentration of solvent constituents in the source area.

3) Based on synthetic precipitation leaching potential ("SPLP") testing performed on collected soil samples, the remaining soil contamination in the Source Area was capable of leaching significant concentrations of solvent constituents into the underlying groundwater.

Figures 7 and 8 depict the presence of elevated concentrations of toluene (in blue) and acetone (in red), as of 2008, on cross sections drawn through the Source Area soils from east to west and north to south, respectively. These cross sections are based on soil sampling and analysis data collected during the March 2007 (see Subsection 3.3.1) and May 2008 (see Subsection 3.3.3) Geoprobe investigations of the Source Area as well as the July 2008 installation of the 5 initial vapor extraction wells (see Subsection 3.4.1). They demonstrate that high concentrations of solvent constituents were still present in mid-2008 in a soil column centered on the former location of the leaking underground pipe elbows. [Note: Overlain on Figures 7 and 8 (highlighted) are some data collected during the March 2009 installation of the deeper vapor extraction wells that reflect the effectiveness of the initial vapor extraction efforts at reducing acetone and toluene concentrations in the shallower Source Area soils (see Subsection 3.4.3).]

3.3.4 Daniels Drive Bedrock Surface Investigation

Another soil investigation utilizing Geoprobe direct-push technology was performed in January 2009 to verify that the bedrock cutter identified in the Source Area at the ELMCO facility was also present under Daniels Drive. The inferred location of this cutter, based on data from the Site and from the location of the seeps along Liberty Creek that had been impacted by solvent constituents, was roughly parallel to the nearby segment of the Harpeth River that is apparently fracture-controlled. During the January 2009 investigation, ten soil borings were advanced in a roughly north-south line along the east side of the southern end of Daniels Drive. The depth to refusal (bedrock) was recorded at each location, and the probe rods were checked for liquid and screened for organic vapors using an OVM as they were removed from the boreholes. The deepest borehole encountered apparently solvent-impacted soil near its bottom, and a sample was collected for laboratory analysis. The analysis identified the same types of VOCs as those present at the Site and in the Liberty Creek seeps.

The results of this January 2009 investigation confirmed the presence of bedrock cutter development beneath Daniels Drive. Further, the presence of solvent-impacted soil in the cutter encountered at the deepest of these borings demonstrated that the cutter, or a set of multiple, interconnected cutters, was providing a pathway for solvent migration under Daniels Drive along a zone extending from the soil source area at ELMCO to the seeps along Liberty Creek. The depth at which the contamination was found indicated that there was at least 30 feet, and in the area of the sampled boring almost 40 feet, of soil and rock between the surface of Daniels Drive and the contamination.

3.4 Dual-Phase Source Area Remediation by Vacuum Extraction

With the finding from the May 2008 investigation that Source Area soils were still significantly contaminated with solvent constituents despite the June 2007 BIOX injection effort, ELMCO and TriAD identified and evaluated other potentially applicable technologies for remediating those soils. Remediation technologies that involved excavation of the soils were quickly rejected because of the problems associated with the organic vapors that would inevitably be volatilized into the ambient air during such excavation activities and the difficulty of controlling such vapor generation. The highly volatile nature of the contaminants pointed toward vacuum extraction technology, but there were concerns – especially after the failure of the BIOX injection effort – that the moist, tight clay soils involved would not be sufficiently porous to enable effective vapor removal. Despite these concerns (which were shared even by the contractor), ELMCO decided to attempt vacuum extraction and hired EcoVac Services, Inc., a remediation contractor specializing in dual-phase (liquid and vapor) vacuum extraction technology, to work with TriAD on remediating the Source Area. The EcoVac technology involves vacuuming vapor and/or liquid from wells installed in the contaminated area, collecting the liquids in a tank, and treating/disposing of the vapor by burning it as fuel in a dual internal combustion engine (DICE) unit (a trailer on which two internal combustion engines are mounted). ELMCO also retained the services of personnel from ERM-Southeast, Inc., (“ERM”) to address air permitting issues and provide technical support for these efforts. The multiple vacuum extraction efforts of ELMCO, EcoVac, TriAD, and

ERM are summarized in the following subsections. EcoVac's detailed reports of the various phases of vacuum remediation are included in Appendix 1.

3.4.1 Initial Shallow Well Pilot Testing and Short-Duration Events

Because of the technical concerns about the ability of vacuum extraction to remove solvents from the relatively tight clay soils in the Source Area, pilot-scale testing of EcoVac's technology was initially planned and implemented. In July 2008, TriAD installed five vapor extraction wells, EV-1 through EV-5, to the top of rock into the most contaminated soil in the Source Area (a map of the area is included as Figure 6, and vapor extraction wells are also shown on Figures 7 and 8). These vapor extraction wells were installed using hollow-stem auger drilling, with a rig and crew supplied by Miller Drilling. Each well was constructed of PVC screen and riser installed with a sand pack and bentonite seal in a manner similar to groundwater monitoring wells. The boring logs and construction diagrams for these wells are included in Appendix 2.

During the drilling of the boreholes for the five new wells, soil cuttings were screened for VOCs with an organic vapor meter (OVM) and soil samples for laboratory analysis were collected from the borings for EV-1 and EV-2. The OVM data and soil samples were collected to aid in the delineation of soil contamination on the north and south sides of the previously identified mass of solvent-impacted soil that is centered on the former underground pipe elbows. The analytical results from these soil samples are shown on the north-south cross section schematic (Figure 7) and the laboratory reports are included in Appendix 2.

EcoVac performed the high-vacuum, dual-phase, short duration pilot tests on the vapor extraction wells using a vacuum truck, along with a DICE unit to burn the extracted vapors, on July 22 through 24, 2008. According to data provided by EcoVac, these tests removed an estimated 1,736 pounds of organic vapors (equivalent to 251 liquid gallons of solvent) and showed vacuum connection between all vapor extraction wells. During the pilot tests,

vacuum effects were also noted at groundwater monitoring well RW-1, located about 40 feet down-gradient (to the west) of the nearest vapor extraction well (EV-3). (For clarity, it should be noted that EcoVac assigned a test-event number to each test of each well, so the July 2008 pilot test was numbered events one through six, corresponding to tests on wells EV-1 through EV-5 and RW-1.) The extent of subsurface vacuum impact identified by this pilot testing successfully demonstrated the applicability of the technology to the Source Area soils.

In calculating the mass of contaminant removed from the ground, EcoVac used a standard equation from the U.S. EPA publication *Estimating Air Emissions from Petroleum UST Cleanups*. The concentration of organic vapors was measured at the intake to the DICE unit using a measuring device (TLV Sniffer) that was calibrated to hexane, which has the same molecular weight as the average molecular weight of acetone and toluene. EcoVac also assumed a density of the contaminant of 6.9 pounds per gallon, which is the average density of acetone and toluene. Although acetone and toluene are by far the most prevalent constituents of the solvent release, they are not the only constituents. As a result of the measurement technology and the assumptions made, the EcoVac estimates of mass removal are just that – estimates. As explained in later Subsection 3.4.5, the EcoVac estimates may be as much as 50 percent higher than the actual mass removal.

With the demonstrated success of the pilot scale testing, ELMCO decided – and TDEC concurred – to pursue a long-term effort using EcoVac's technology to remove as much of the VOCs from the Source Area as could reasonably be achieved. As the plans for installation of such a long-term vapor extraction system were developed, TDEC requested and ELMCO agreed to have EcoVac return to the Site to perform additional short-duration vacuum extraction events, each designed to remove the maximum mass of contaminant in the time allowed. These events, also using a vacuum truck and a DICE unit, took place during September 18 and 19 and October 13 through 16, 2008. According to data

provided by EcoVac, the two-day event in September removed an estimated 1,593 pounds of organic vapors (231 equivalent liquid gallons). After this event, and at EcoVac's suggestion, ELMCO had asphalt paving placed over the Source Area to eliminate vacuum short-circuiting (the process by which air from the ground surface is entrained while vacuuming from the subsurface), thereby enhancing the vacuum effect during extraction and improving efficiency. Data provided by EcoVac show that the four-day event in October removed an estimated 3,541 pounds of organic vapors (514 equivalent liquid gallons). The total estimated mass of organic vapors removed during the pilot testing and subsequent two events was 6,870 pounds (996 equivalent liquid gallons).

During the October event, ERM personnel collected samples of the vapor being removed from the ground. These samples were collected via Tedlar bags and SUMMA canisters for analysis of VOCs by U.S. EPA Method TO-15. The results of these analyses are included in Appendix 3, and show high concentrations of acetone and toluene, with lesser concentrations of ethanol, ethylbenzene, methyl ethyl ketone, 2-propanol, 1,2,4-trimethylbenzene, and xylenes. (Note: The sample designated 85010-08 is an ambient air sample; it did not represent vapor being removed from the ground.) High detection limits caused by the very high concentrations of acetone and toluene likely masked other VOCs.

No measurable liquids were removed from the five vapor extraction wells during the 2008 pilot testing and short-duration events. (The mass calculations represent solely vapor-phase solvent as measured using an organic vapor meter at the input to the DICE.) In fact, no significant water accumulated in the wells during the time between their installation and the October vacuum event. Small amounts (less than 1 foot) of water were observed in two of the wells in September after a heavy rain, but the possibility of surface-water infiltration into the wells could not be ruled out. Although some minor amounts of liquid were observed in the vacuum lines during the vacuum events, the liquid

was vaporized by the high volume of air being extracted and no liquid accumulated in the vacuum truck tank. All removed vapor was burned in the DICE unit at calculated destruction efficiencies of approximately 99.95 percent.

During the July and October 2008 short-duration, dual-phase vacuum extraction events, EcoVac's vacuum truck was also used to vacuum liquids from two groundwater monitoring wells located short distances down-gradient of the Source Area to evaluate the possible presence of free-product solvent with the groundwater down-gradient of the Source Area and the feasibility of remediating groundwater by dual-phase vacuum extraction. Well RW-1, located some 40 feet west (down-gradient and down-"cutter") of the nearest vapor extraction well (EV-3), yielded in July 2008 approximately 90 gallons of water but no free-product solvent. (In fact, no free-product solvent has ever been observed in well RW-1 before or after this vacuum extraction event.) Well RW-1 also showed vacuum connectivity to some of the vapor extraction wells. However, vacuum extraction from Well MW-3 (located some 100 feet north of well RW-1 but still down-gradient) in October 2008 yielded only 5 gallons of water-solvent mix (approximately the well-bore volume), and showed no connectivity to any other well. The liquids vacuumed from these wells were collected in the vacuum truck tank and then transferred into 55-gallon drums which were accumulated at the Site and subsequently shipped off-site for management to a permitted hazardous waste management facility.

3.4.2 Long-Term Soil Vapor Extraction – Phase 1

The vacuum extraction system employed for long-term removal of solvent vapors from the Source Area soils consisted of a DICE unit and an associated 1,000-gallon propane fuel storage tank. When running, the DICE unit both created a vacuum that sucked vapor from the EV wells to which it was connected and destroyed the vapor by burning it as fuel. While it created a much less powerful vacuum than that provided by a vacuum truck, this technology was much more cost effective for vacuum extraction over a longer period. ELMCO installed a 1,000-gallon propane tank which was connected to the DICE unit and

provided supplementary fuel to allow continuous operation. The solvent vapors extracted from the contaminated soil diminished over time (as intended) and could not be relied upon as the sole source of engine fuel for the DICE unit.

The DICE unit was connected to vapor extraction wells EV-1, EV-2, and EV-4. During the short-duration tests, these three wells had shown the highest recovery rates and the greatest interconnection with the other wells. After some initial equipment problems, the system began continuous operation on November 21, 2008. The system then operated essentially 24 hours a day (with several short shutdowns due to necessary maintenance and a few equipment problems) until February 21, 2009. During that time the system removed and destroyed, according to EcoVac data, approximately 24,599 pounds of organic vapors (3,538 equivalent liquid gallons).

At the beginning of the long-term extraction, approximately 39 pounds of vapor were being removed every hour. As system operation continued that rate decreased, reaching approximately 5.8 pounds per hour on January 8, 2009. At that time, EcoVac added well EV-3 to the vapor extraction system, increasing the mass removal rate to 6.2 pounds per hour. By February 3, that rate had increased to 6.9 pounds per hour, but it then declined rapidly to only 3.8 pounds per hour on February 10. As a result of the declining mass removal rate, the rate of propane consumption dramatically increased, causing a large decrease in the cost effectiveness of the system. This encouraged ELMCO and TriAD to try to evaluate the effectiveness of the vacuum extraction efforts and determine if additional actions were needed.

In January 2009, as this decline in cost effectiveness was occurring, TriAD implemented the planned soil gas study on Daniels Drive, using a Geoprobe drill rig to collect top-of-rock and soil-gas data (see Subsections 3.3.4 and 3.7.2). During the course of that off-Site effort, TriAD also mobilized the Geoprobe rig to the Site to collect Source Area soil samples that would enable some evaluation of the effectiveness of the on-going vapor

extraction efforts. Two soil borings were advanced to refusal in the Source Area, and the retrieved soil cores were screened for VOCs using an OVM. Based on the OVM results, one soil sample was collected from each of these borings and submitted for laboratory analysis for VOCs. Boring logs for these two borings (which were numbered incorrectly in the field – the actual boring numbers are GP-30 and GP-31), and the laboratory reports of the two tested soil samples are included in Appendix 2.

The results of this limited investigation of the Source Area soils indicated a substantial decrease in the mass of contaminants, particularly in the soil less than 12 feet below ground surface. However, high concentrations of solvent constituents were apparently still present below that zone. It was therefore decided to install additional, deeper vapor extraction wells. On February 21, 2009, ELMCO decided to suspend the long-term soil vapor extraction operations until the new deeper wells could be installed and tested, and a more cost-effective operation could be established.

3.4.3 Installation and Pilot Testing of Deeper Wells

It was determined that the additional, deeper vacuum extraction wells should be screened in the lower portion of the soil column and into the upper portion of the bedrock. Because of the weathered and very irregular bedrock surface in the cutter, drilling into the bedrock was deemed necessary to try to ensure that screened portions of the wells crossed the soil-bedrock interface, where the available evidence indicated that the free-product solvent had accumulated and migrated westward. It was also determined that sonic drilling technology should be used because each boring was to be advanced several feet into bedrock – drilling that could not be accomplished by auger drilling and for which air rotary drilling was inefficient and problematic due to the presence of VOCs. Unlike air rotary drilling, sonic drilling also allows production of a relatively undisturbed soil/rock core that can be evaluated in a manner similar to cores resulting from Geoprobe and split spoon sampling.

On March 10 and 11, 2009, TriAD installed six additional vapor extraction wells, EV-6 through EV-11, using a sonic drilling rig and crew supplied by Boart Longyear. Each well was constructed of PVC screen and riser installed with a sand pack and bentonite seal in a manner similar to groundwater monitoring wells. During drilling, the retrieved soil/rock cores were screened for VOCs using an OVM and the OVM data was used to select depth intervals for collection of soil samples for laboratory analysis for VOCs. Boring logs and well construction diagrams for EV-6 through EV-11 are included in Appendix 2, along with the laboratory reports for the selected soil samples. The results of these March 2009 soil sample analyses are overlain on the Source Area soil cross sections in Figures 7 and 8. The data gathered from these 6 additional borings confirmed that, with some isolated exceptions, solvent constituents in the upper half of the contaminated soil column in the Source Area had decreased significantly since inception of the vacuum extraction remediation.

On March 16 through 18, 2009, EcoVac performed high-vacuum, dual-phase, short duration pilot tests on the 6 new vapor extraction wells, again using a vacuum truck to provide the vacuum and the DICE unit to burn the extracted vapors. According to EcoVac's reports, this testing removed 353 pounds of organic vapors (51 equivalent liquid gallons). Prior to initiating vacuum extraction, TriAD personnel used an interface probe to check each well for the presence of free-product solvent and water. Each of the new wells contained water, indicating that water migrating along the top of rock or in the upper bedrock had been intercepted, but none of the wells contained free-product solvent. At the completion of the vacuum testing, a total of 175 gallons of groundwater had accumulated in the vacuum truck tank. This collected groundwater was then transferred into 55-gallon drums which were accumulated at the Site and subsequently shipped off-Site for management to a permitted hazardous waste management facility.

3.4.4 Long-Term Soil Vapor Extraction – Phase 2

Based on evaluation of the pilot testing results for the 6 new vapor extraction wells and historical data, it was determined that the greatest removal of vapor could be accomplished by simultaneously vacuuming from wells EV-1, EV-2, EV-4, EV-8, and EV-9. Low-vacuum, long-term soil vapor extraction using the DICE unit was therefore restarted using this configuration on March 18, 2009, removing approximately 13 pounds of vapor per hour. Because this rate was below the threshold at which operation of both engines was cost-effective, one of the engines was turned off and vapor extraction continued using only one engine, with a production of approximately 8.3 pounds of vapor per hour. By April 20, 2009, the removal rate had dropped to approximately 4.9 pounds per hour. The rate had dropped further, to approximately 4.25 pounds per hour, by May 18. EcoVac's reported data shows that, from its restart on March 18 through May 18, the second phase of long-term, soil vapor extraction operations had removed approximately 7,190 pounds of organic vapor (1,042 equivalent liquid gallons) from the Source Area soils. Because of the low removal rate and the correspondingly high cost of using propane fuel to maintain operation of the DICE unit, ELMCO decided that the soil vapor vacuum extraction operations were no longer cost-effective, and they were shut down on May 18, 2009.

3.4.5 Summary and Evaluation of Source Area Remediation

According to EcoVac estimates, approximately 38,826 pounds of solvent vapors (equivalent to 5,627 liquid gallons) were removed from the Source Area and destroyed from the initial vapor extraction well testing in July 2008 through termination of soil vapor extraction efforts on May 18, 2009. However, EcoVac, TriAD, and ERM agree that this estimate is likely high.

During the long-term vacuum extraction, ERM collected air samples from the DICE inlet on three occasions, December 16, 2008, February 10, 2009, and March 20, 2009. The samples were collected using Tedlar bags and SUMMA canisters and were analyzed for

VOCs by U.S. EPA Method TO-15. Laboratory reports of these events are included in Appendix 3. These analyses confirmed that solvent constituent concentrations entering the DICE unit declined significantly over the time the unit was operating. However, the mass of contaminant removed as measured by the ERM samples showed less than 50 percent of the removal calculated by EcoVac. The differences are likely due to the following factors: 1) the TLV Sniffer used by EcoVac measures all organic vapors, including non-toxic breakdown products of the solvent constituents that are not measured by the TO-15 analysis; 2) EcoVac used an average molecular weight for acetone and toluene, while ERM used molecular weight calculated based on actual ratios of organic constituents detected; and 3) the EcoVac TLV Sniffer was calibrated to the average molecular weight of acetone and toluene rather than one calculated from actual ratios of contaminants.

It is apparent from the above discussion that while EcoVac's estimates of mass removal are likely too high, the actual mass removal cannot be accurately calculated. Therefore, it can only be stated that the mass of volatile organic vapors removed from the source area is estimated to be between 19,413 pounds and 38,826 pounds (2,813 to 5,627 equivalent gallons). The estimated mass of toluene and acetone in the soil source area prior to vacuum extraction, as presented in the 2008 RCCAP, was 23,074 pounds (3,500 equivalent gallons).

From July 2009 to June 2010, TriAD collected groundwater samples periodically from vapor extraction well EV-6 and had them analyzed for VOCs. These sampling and analysis efforts were intended to provide qualitative, screening-level data indicating whether contaminant concentrations were declining or increasing in the shallow groundwater of the source area. The well was not purged prior to sampling – a bailer was lowered into the water in the well and the sample collected from the bottom volume in the bailer. No free product solvent was observed in any of the sampling events. Eight samples were collected, and the laboratory results are included in Appendix 4, along with

a summary table of results. These data showed a significant decline in acetone concentrations during the year of monitoring, with similarly significant declines in methyl-ethyl-ketone and methyl-isobutyl-ketone. Other solvent constituents showed less obvious trends, particularly toluene and xylenes, both of which showed no significant increase or decrease over the monitoring period.

It is apparent from the data collected from the vapor extraction wells that there is no significant free product remaining in the Source Area soils. The vapor extraction wells were checked for fluid (water and/or free product) periodically throughout the interim action and no evidence of free product was detected. As an example, one liquid-level check was done using an interface probe on June 10, 2009, during a quarterly groundwater monitoring event. At that time, the vacuum extraction had been stopped for over three weeks, and water was present in every well, although in some wells water was present only in the sump below the bottom of the screen. Clearly, the high amount of rainfall during that May had resulted in increased migration of water through the soil and along the top of rock in the cutter located below the Source Area. But despite this movement of water through the contaminated soils, none of the wells contained free product. This provided strong evidence that the remedial efforts in the Source Area, from initial removal of the leaking pipes to vacuum extraction, had removed the majority of solvent constituents and eliminated the free product from the soil near the former tank farm.

3.4.6 Final Dual-Phase Extraction From Nearby Groundwater Monitoring Wells

On June 16, 17, and 18, 2009, ELMCO had EcoVac perform high-vacuum, dual-phase, 8-hour vacuum extraction tests on groundwater monitoring wells AR-1, RW-1, and MW-3. The purpose of this testing was to determine whether such efforts could be used to effectively remove free-product solvents or significant quantities of solvent vapors from these three wells, which are located down-gradient of the Source Area and have historically exhibited the highest levels of groundwater contamination. Although some

vacuum extraction had been performed on the wells previously, those efforts had been limited to removing water from wells AR-1 and MW-3 on one occasion each and to a short-term test on RW-1 to determine whether it was hydraulically connected to the Source Area vapor extraction wells (which it was). This more extensive vacuum testing of the groundwater wells was delayed until it became obvious that no significant free-product solvent remained in the Source Area soils because of concern that vacuuming these wells could spread remaining solvent outward from the Source Area. Prior to testing, both the groundwater monitoring and the vapor extraction wells in the Source Area were checked for water levels and free-product solvent and no free-product solvent was detected. Additionally, any water present in the vapor extraction wells was removed by vacuuming.

The testing again involved using a vacuum truck to establish a high vacuum on each well in turn, collecting removed liquids in the vacuum truck's tank and burning organic vapors in a DICE unit. However, the vacuum was maintained in each well for a period of eight hours while monitoring vacuum and water-level effects in nearby groundwater and vapor extraction wells. After each 8-hour effort, the collected groundwater was then transferred into 55-gallon drums which were accumulated at the Site and subsequently shipped off-Site for management to a permitted hazardous waste management facility.

Vacuuming well RW-1 produced measurable negative pressure only in wells AR-1 and EV-6 and, according to EcoVac's estimates, resulted in the removal of 40 pounds of organic vapor (5.8 equivalent liquid gallons), with vapor production decreasing throughout the test period. Approximately 456 gallons of contaminated groundwater were removed from well RW-1 during the test.

Vacuuming well AR-1 produced no measurable negative pressure in any surrounding well, although water levels in wells RW-1 and MW-3 did decrease during the test. Only

about 2 pounds of organic vapor (0.3 equivalent liquid gallon) were removed during this test, along with about 285 gallons of contaminated water.

Vacuuming well MW-3 also produced no negative pressure in any surrounding well, and the very small changes observed in water levels in nearby monitoring wells were likely not related to the test. During the test, the pressure measured at the well head was essentially equivalent to that produced by the vacuum truck, meaning the screened portion of the formation has almost no ability to transmit a vacuum. This finding is consistent with observations of very slow water-level recovery in this well. Only about 1.6 pounds of organic vapor (0.2 equivalent liquid gallon) were removed from MW-3, along with very little contaminated water (officially recorded as no measurable quantity).

The results of the vacuum testing of wells AR-1, RW-1, and MW-3 indicated that only well RW-1 was capable of yielding significant vapor, and the rate of vapor production quickly declined during vacuuming. It was therefore apparent that long-term vacuum extraction using only the lower-vacuum DICE unit would not be cost-effective. The testing also provided additional data to demonstrate that no significant free product remains in the source area.

3.5 Groundwater Investigations and Monitoring

As with the soil investigation and remediation, the groundwater investigation proceeded in phases and has been followed with periodic groundwater monitoring. Except for some limited groundwater monitoring performed by AquAeTer, Inc. in support of their biostimulation efforts (see Subsection 3.8), all of this work has been performed by TriAD, and is reported in the following TriAD documents:

> *Summary of Phase I and II Groundwater Investigations*, July 27, 2007 (monitoring wells AR-1, RW-1, MW-1, MW-2, and MW-3)
>
> *Groundwater Corrective Action Plan*, August 28, 2007
> *Report of Additional Solvent Release Investigations*, March 25, 2008 (monitoring wells MW-4 and MW-5 and February 2008 quarterly groundwater monitoring event)

Revised Comprehensive Corrective Action Plan, June 23, 2008

Report of August/September 2008 Groundwater Investigations, October 20, 2008 (monitoring wells MW-6 and MW-7 and September 2008 groundwater monitoring event)

Multiple reports of groundwater monitoring events, December 2008 through March 2015

On March 21, 2013, TDEC approved a change in the groundwater monitoring schedule and the wells to be monitored. As of that date, monitoring wells MW-6 and MW-7 were removed from the routine monitoring schedule due to long histories of no detectable VOCs in samples from them and the presence of other wells that provided definition of the contaminant plume. Further, the remaining monitoring wells were placed on a semi-annual monitoring schedule. The March 2013 groundwater monitoring event was the first performed under this new semi-annual schedule. In December 2014, with approval from TDEC, ELMCO abandoned wells MW-6 and MW-7.

The following subsections summarize the findings of the groundwater investigations and monitoring.

3.5.1 General Findings

The findings of the groundwater investigations relating to groundwater flow direction and rate are summarized in this and following subsections of this report, and in the Potentiometric Map (Figure 9). The extent of groundwater contamination as defined by toluene, acetone, and benzene concentrations above drinking water standards is presented on Figures 9 (March 2015) and 10 (February 2008). These maps show that the highest concentrations of solvent constituents are found in the area near the solvent release point at the south side of the former tank farm and in the seeps along Liberty Creek. The maps also show that the contaminant plume has decreased significantly in size and concentration since the first year of the investigation. As expected from the data

presented on the potentiometric map, the contaminants have migrated outward in all directions from the Source Area. The horizontal extent of the contaminant plume was effectively defined by the monitoring well network to the east, north, and west and by the Harpeth River to the south.

Table 1 presents a summary of the groundwater analytical results to date in comparison to each identified VOC's "Regulatory Level of Concern", which is obtained from the Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2)) or, if no such Tennessee criterion exists, from U.S. EPA's Regional Screening Levels (for tap water) for Chemical Contaminants at Superfund Sites (RSLs, January 2015). Appendix 5 contains a series of charts showing toluene and acetone concentrations in groundwater over time at wells AR-1 and RW-1, the wells closest to the source area. From the table and graphs it can be seen that groundwater monitoring data have shown significant declines in VOC concentrations at all locations, with the exception of MW-3, which, as described below, produces very little water and has not shown large declines in toluene concentrations. It is likely that additional analytical data will show some fluctuation in contaminant concentrations over time, as variables such as contaminant plume and water-level fluctuations interact to produce higher or lower concentrations at any given point. The following subsections summarize the trends in constituent concentrations at each monitoring well.

3.5.2 Well AR-1 Findings (Down-gradient of Source Area at ELMCO Site)

This well was the first well borehole drilled at the Site in April 2007 although the well itself, which is screened exclusively in the weathered bedrock at the bottom of the cutter that directs contaminant flow toward Liberty Creek, was not installed until August 2008. The initial boring encountered no significant groundwater but heavy soil contamination above the bedrock. As a precaution to prevent the bedrock drilling from providing a downward migration pathway for this shallower contamination, the initial boring was enlarged and advanced a few feet into competent bedrock and an isolation casing was installed. The

boring was then advanced through the isolation casing into the bedrock until a significant water-bearing zone was encountered. However, when the TriAD-directed drilling crew prepared to install the well screen and riser, it was discovered that groundwater had risen into the isolation casing and was topped by a floating layer of free-product solvent approximately one-foot thick. This free-product solvent layer within the isolation casing was subsequently captured and removed using sorbent pads, but no additional floating free-product solvent could be recovered thereafter due to groundwater rising up into the isolation casing. It must be noted that no other free-product solvent has ever been observed in well AR-1.

This well produces samples most representative of the bedrock aquifer in close proximity to the source area, and has shown significant declines in constituent concentration since its initial sampling in spring 2007. As shown in Table 1 and the charts in Appendix 5, acetone has virtually disappeared from groundwater in the vicinity of AR-1, dropping from over 10,000 mg/L in October 2007 to less than detectable concentrations in December 2009. Toluene has also shown a significant decline, from almost 400 mg/L in October 2007 to concentrations below its regulatory level of concern of 1 mg/L during recent monitoring events. Increases in VOC concentrations in samples from this well were noted during operation and testing of the EcoVac remediation system, but dropped off sharply after that system was shut down. Since March 2013, none of the VOC concentrations detected in the samples from AR-1 have exceeded levels of regulatory concern.

3.5.3 Well RW-1 Findings (Downgradient of Source Area at ELMCO Site)

Well RW-1 was installed in April 2007 a few days after, and immediately up-gradient (approximately 10 feet east) of, well AR-1 with the intent of using it to recover the floating free-product solvent layer that the initial AR-1 findings had indicated. It was therefore screened across the soil-bedrock interface and set to a similar depth as well AR-1. However, no free product was ever identified in this well. The well produces samples

representative of groundwater flowing along the top of rock and in the weathered bedrock in the cutter that directs contaminant flow toward Liberty Creek.

Samples from well RW-1 have shown a significant decline in constituent concentrations since monitoring of this well began in 2007, with toluene concentrations declining to below its regulatory level of concern as of September 2014. Acetone was reported at concentrations below its regulatory level of concern in samples from this well from September 2009 to May 2012, with a slight increase noted by AquAeTer in their August 2012 monitoring event. However, the relative percent difference between acetone concentrations detected in the sample and the sample duplicate during that event was greater than 150 percent. As a result, the acetone data from August 2012 were considered only estimates. Since that time, AquAeTer data showed either no detectable acetone or only trace concentrations in samples from well RW-1. TriAD data from 2013 through 2015 showed non-detect results for acetone, indicating that the August 2012 result was indeed anomalous. Significant variation in VOC concentrations has been observed in samples from this well, due mostly to the EcoVac vacuum extraction operations in 2008 and 2009 (see Subsection 3.4) and, later, to the injection into the well of biostimulant fluid by AquAeTer (see Subsection 3.8). These variations have complicated assessment of contaminant trends, as shown on the charts in Appendix 5, but the overall trend has clearly been downward. Ancillary VOCs, such as ethylbenzene and xylenes, remain at concentrations exceeding the regulatory levels of concern in groundwater samples from this well. [Note: These ancillary VOCs have not been found at significant concentrations at the Main Seep monitoring location since at least 2009, and have never had a significant impact in assessments of off-Site risk.]

3.5.4 Well MW-1 Findings (East of Source Area at ELMCO Site)

Low concentrations of VOCs have been detected in samples from this bedrock well since the beginning of the project (though early samples, collected via bailer, showed non-detectable concentrations). Acetone has never been detected, and toluene was detected

only once, in 2008. Benzene has been the only constituent ever found at concentrations exceeding its regulatory level of concern, but its concentrations fluctuated around that threshold for several years before dropping below it after March 2012. Trace concentrations of VOCs have been sporadically detected in samples from this well since that date, all at concentrations well below regulatory levels of concern. This well has effectively defined the eastern extent of the groundwater contaminant plume.

3.5.5 Well MW-2 Findings (South of Source Area at ELMCO Site)

This well, located between the Source Area and the Harpeth River, is screened within the bedrock aquifer. Acetone was initially the dominant contaminant in samples from this well, but dropped from 360 mg/L in June 2007 to less than detectable concentration in June 2008. Acetone was detected in samples from this well in 2013 and 2014, but at concentrations well below its regulatory level of concern. Low levels of toluene and other VOCs have been routinely detected in samples from this well, but benzene remains the only VOC present in samples at concentrations above its regulatory level of concern.

3.5.6 Well MW-3 Findings (North of Source Area at ELMCO Site)

Water was not encountered during the drilling of MW-3, but solvent vapors were detected within a fracture in the bedrock. Water accumulated in the well slowly after completion, its level not stabilizing for over three weeks. As indicated by slug tests and as confirmed by vacuum extraction tests, MW-3 intercepts a fracture or bedding plane that has almost no ability to transmit water or air through the formation. Samples from MW-3 are therefore representative of tiny, poorly interconnected factures that effectively form hydraulic “backwater” pockets in which contaminants can persist over longer periods than in more interconnected portions of the aquifer. Although measurable free-product solvent has not been present since early in the well’s history, toluene has consistently been detected in samples from this well at concentrations near the saturation limit for that contaminant. When detectable through the masking high concentrations of toluene, acetone has been found at concentrations below its regulatory level of concern. An unusually high

concentration of acetone was detected in the sample collected in September 2013, but a verification resampling of the well conducted in October 2013 showed acetone at a concentration of 1.92 mg/L. Based on the resampling results and a review of the laboratory reports, it is apparent that the acetone result reported in September was incorrect, and was likely a laboratory error. In March 2014, toluene, benzene and 1,2,4-trimethylbenzene were detected at concentrations above their regulatory levels of concern. Samples from September 2014 and March 2015 contained toluene at levels similar to the March 2014 concentration, indicating that benzene and 1,2,4-trimethylbenzene may also remain at similar concentrations even though they were not detected at the elevated reporting limits available during those events.

3.5.7 Well MW-4 Findings (West of Liberty Creek at BGA School)

This shallow bedrock well was installed to monitor groundwater across Liberty Creek from the Main Seep area, along the apparent trend of the fracture system in which the cutter system developed. Traces of toluene were detected during the first two sampling events in 2008, but no solvent-related VOCs have been detected in samples from this well since that time.

3.5.8 Well MW-5 Findings (North of Source Area and Well MW-3 on Daniels Drive)

Installed to determine whether significant contaminant concentrations extended under all of Daniels Drive, this bedrock well effectively defined the northern extent of the plume. Acetone has never been detected in samples from this location, and toluene and benzene, detected during the first few sampling events, are no longer present. In fact, no VOCs have been detected in samples from this well since September 2010. Potentiometric data from this well have been important in understanding groundwater flow within the bedrock aquifer, and have repeatedly demonstrated that well MW-6 is up-gradient of this location.

3.5.9 Well MW-6 Findings (Across Liberty Creek from Daniels Drive, at Corpus Christi Chapel)

Trace concentrations of benzene, toluene, ethylbenzene, xylenes, and trimethylbenzenes have periodically been detected in samples from this bedrock well. However, as demonstrated by potentiometric data from this well and MW-5, it is very unlikely that these VOCs are related to the ELMCO contaminant plume. It is more likely that a gasoline release(s) in the vicinity of Old Liberty Pike is responsible for the low levels of BTEX constituents observed. In any case, no VOCs were detected in samples from this well after December 2010. TDEC approved removal of this well from the routine groundwater monitoring schedule in March 2013, and it was permanently abandoned in December 2014.

3.5.10 Well MW-7 Findings (Eastern portion of ELMCO property)

Trace concentrations of benzene and ethylbenzene have periodically been detected in samples from this bedrock well. However, no VOCs were detected after September 2010, and the lack of toluene indicates that the contaminants previously detected were likely not related to the underground pipeline leaks at the former tank farm. TDEC also approved removal of this well from the routine groundwater monitoring schedule in March 2013, and it was also permanently abandoned in December 2014.

3.6 Seep and Surface Water Monitoring

As expected given the presence of free-product solvent discharge into the stream, the initial sampling and analysis of samples from Liberty Creek in February 2007 by ELMCO and TDEC identified the significant presence of dissolved solvent constituents. After the free-product capture and control efforts described in Subsection 3.2.1 established some control over the flow of free-product solvent into Liberty Creek, a routine seep and surface water monitoring program was established beginning in May 2007 and has been implemented since by TriAD on ELMCO's behalf. Each of the multiple monitoring events

has been documented in a letter report to TDEC. The most recent of these reports is *Seep and Surface Water Monitoring Results – March 2015*, dated April 13, 2015.

The routine monitoring program implemented by ELMCO/TriAD originally included the monthly collection and analysis of surface water (including emerging groundwater seeps) at the following locations, which are shown on Figure 1:

LC-PC (Liberty Creek Personnel Crossing)
LC-MS (Liberty Creek Main Seep)
HR-2 (Harpeth River Seep 2)
HR-3 (Harpeth River Seep 3)

In addition, a surface water sampling point was added in November 2007 at the watergate (part of the security fence installed by ELMCO to isolate the seep/trench area from persons wandering down Liberty Creek) that then spanned Liberty Creek upstream of the Main Seep. A *Modified Seep and Surface Water Monitoring Plan*, submitted to TDEC on November 14, 2008, currently governs the collection and analysis of the seep and surface water samples. The November 2008 plan, since modified, included locations LC-PC, LC-MS, Watergate, HR-2, and a surface water sampling location near the right descending bank of the Harpeth River downstream of Liberty Creek known as HR-DS-LC. The HR-3 seep location had been removed from the sampling network due to infrequent flow and interference from the Harpeth River. The first modification to the 2008 plan, approved by TDEC on April 15, 2010, changed the monitoring frequency from bi-monthly to quarterly. The second modification, approved by TDEC on April 16, 2010, deleted location HR-DS-LC as a required monitoring point. The third modification deleted seep HR-2 as a required monitoring point, and was approved by TDEC on December 13, 2011. The deletions of HR-DS-LC and HR-2 were allowed because contaminant concentrations at these locations had decreased such that they represented no significant risk to human health or the environment, and they were therefore no longer needed to characterize the

contaminant plume. The fourth modification changed the monitoring frequency from quarterly to semi-annually, as approved by TDEC on March 21, 2013.

Table 2 presents a summary of seep and surface water monitoring results through March 2015, and charts of contaminant concentration over time for sampling points LC-MS and HR-2 are presented in Appendix 5. The seep monitoring locations have all shown significant reductions in contaminant concentrations since the beginning of monitoring, particularly at locations LC-MS and HR-2, the most contaminated of the seep monitoring locations. At HR-2, concentrations of acetone, which was the dominant constituent at this location, declined from an average of 2,033 mg/L during May through August of 2007 to an average of less than detectable concentrations by September 2009. Likewise, toluene declined from over 400 mg/L in spring 2007 to less than 1 mg/L at the time the location was deleted from the monitoring program. At LC-MS, where toluene has been the dominant constituent, concentrations of toluene have declined from an average of 377 mg/L during May through August of 2007 to an average of about 72 mg/L during 2014-2015. Further, free-product solvent was virtually eliminated at LC-MS by construction of the Interceptor Trench in August 2007, with the last free product confirmed in fall 2008.

Locations LC-PC and Watergate are surface water sampling points in the main channel of Liberty Creek, and VOC concentrations in samples from these points are therefore more affected by precipitation and Liberty Creek flow/water levels than actual seep samples. These effects are exhibited in the lower and much more variable VOC concentrations shown in Table 2 for these monitoring locations as compared to the concentrations at LC-MS. The monitoring data for these locations is thus not a reliable indicator of contaminant conditions in the groundwater.

Although significant reductions in contaminant concentrations have been observed in the seep samples since late summer 2007, variability in seep sample results has been observed and is expected. There are many variables that contribute to this, including

variations in contaminant concentrations throughout the plume (e.g., presence or absence of pockets of free product) and variations in groundwater elevation and flow paths (and thus varying contact with these residual pockets of free product) caused by varying precipitation amounts (including seasonal effects).

It should be noted that, independent of the ELMCO/TriAD efforts, TDEC's then Division of Water Pollution Control ("TDWPC", now the Division of Water Resources) also collected and analyzed surface water samples from a few locations along the Harpeth River and Liberty Creek to assess the nature and extent of surface water contamination from the solvent release. DWPC's efforts began in January 2007 and concluded in December 2009, and involved some of the same locations tested by ELMCO/TriAD as well as others farther upstream on Liberty Creek (the "TDWPC U/S" location shown on Figure 1) and both upstream and downstream on the Harpeth River (outside the coverage of Figure 1). The results from DWPC's efforts are not included in this FCAP, but were reviewed as they were made available and found to be consistent with ELMCO/TriAD's findings described above.

3.7 Air Monitoring

From the earliest days of TDEC's and ELMCO's response to the discovered solvent release, it was recognized that solvent vapor emissions into air posed the most immediate and greatest potential risk to human health. Several phases and types of ambient air monitoring have been performed at the site since early 2007 to identify and evaluate such risks, focusing first on the acute risks of short-term exposure and then, later on, on the chronic risks of intermediate and long-term exposures. Soil gas investigations and indoor air monitoring have also been performed to evaluate the vapor intrusion pathway to the residents of Daniels Drive. Each phase of air monitoring was performed either at the direction of, or in accordance with work plans approved by, TDEC.

The following reports have been submitted to TDEC:

Results from Air Monitoring at Residences Near Liberty Creek in Franklin, Tennessee, EnSafe, April 30, 2007

Updated Data from TriAD's Daily Air Monitoring Around Solvent Seeps into Liberty Creek, TriAD, May 4, 2007

Report on Air Monitoring Near Liberty Creek in Franklin, Tennessee, EnSafe, August 24, 2007

Updated Table of TriAD Air Monitoring Results for Liberty Creek, email from Dwight Hinch of TriAD to Ashley Holt of TDEC, October 23, 2007

Report on Supplemental Air Monitoring Near Liberty Creek in Franklin, Tennessee, EnSafe, December 19, 2007

Preliminary Report of Daniels Drive Soil Gas Investigation, TriAD, March 23, 2009

Summary Report on 2008 Air Monitoring Near Liberty Creek in Franklin, *Tennessee*, EnSafe, April 2009

Final Report of Soil Vapor Investigation - Daniels Drive Area TriAD, July 10, 2009

Health Consultation, Residential Indoor Air Investigation, Egyptian Lacquer Manufacturing Company, Inc., Tennessee Department of Health, November 22, 2010

Report of Long-Term Soil-Gas Monitoring: Probe Installation and First Monitoring Event, TriAD, July 2, 2013

Report of Long-Term Soil-Gas Monitoring: Second Monitoring Event, TriAD, October 8, 2013

Report of Long-Term Soil-Gas Monitoring: Third Monitoring Event, TriAD, February 13, 2014

Report of Long-Term Soil-Gas Monitoring: Fourth Monitoring Event, TriAD, May 8, 2014

The air monitoring efforts and results are summarized in the following subsections. Additional details regarding air monitoring results and their implications for human health

are provided in Section 5.1 of this report. Maps showing the referenced air monitoring locations are presented as Figures 11, 12, and 13.

3.7.1 Ambient Air Monitoring at Liberty Creek

In February and very early March 2007, EnSafe implemented (on behalf of TDEC) a program of daily, real-time monitoring of ambient air in the areas of Liberty Creek and the Harpeth River impacted by contaminated seeps to help evaluate the changing conditions and to establish and verify/adjust site control boundaries. Daily, real-time measurements of VOC concentrations in ambient air at multiple stations were collected using a calibrated, direct-reading electronic organic vapor meter ("OVM"), recorded, and reported to TDEC. During the initial phase of these efforts, EnSafe also used the OVM to obtain real-time organic vapor measurements in the crawlspaces and basements of several homes along Daniels Drive to determine that none of the residents were at acute risk from such vapors. On behalf of ELMCO, TriAD assumed the implementation of the daily monitoring program around the Liberty Creek and Harpeth River seeps on March 5, 2007, and continued it – with modifications approved by TDEC – into September 2007. During this time, no evidence of significant exposure to organic vapor was found anywhere other than the immediate vicinity of the lower portion of Liberty Creek, near the seeps.

In a July and August 2007 monitoring effort designed to evaluate potential solvent vapor exposure risks to persons occupying the properties surrounding the Liberty Creek seep and trench area, time-integrated monitoring (24-hour) was performed by EnSafe (on behalf of ELMCO) at four locations surrounding Liberty Creek (TI-1 through TI-4 on Figure 11). During the August portion of this event, performed while the interceptor trench was being excavated, toluene was detected at concentrations exceeding chronic and, at one sampling location, acute exposure concentrations. Because these results were thought to be skewed by the excavation work near the sampling points, the sampling effort was repeated in December 2007, during which no measurable concentrations of acetone or toluene were detected.

After delays caused by property access issues, another time-integrated air study was performed by EnSafe over the period April 21 to May 19, 2008, at locations surrounding Liberty Creek and at one location near the residence at 131 Daniels Drive (TI-1 through TI-5 on Figure 11). This study used 7-day samples to provide an improved and updated assessment of potential intermediate and chronic risks to which the occupants of surrounding properties might be exposed. This time-integrated air monitoring (7-day) then continued at the locations surrounding Liberty Creek and near 131 Daniels Drive over the period June 23 to December 29, 2008. These studies found no detectable concentrations of benzene, and concentrations of acetone remained well below screening risk levels. Toluene concentrations measured during the studies were below chronic exposure risk levels at all but two points – both on the west bank of Liberty Creek – where the concentrations occasionally exceeded the chronic exposure level. However, average concentrations at both of these locations remained below the chronic exposure level. EnSafe concluded that ambient VOC concentrations in the Liberty Creek area and near the house at 131 Daniels Drive were not likely to pose a risk to area residents or the students at BGA Lower School.

3.7.2 Daniels Drive Soil Vapor Investigations

In January 2009, TriAD (on behalf of ELMCO) implemented a TDEC-approved work plan for investigating solvent constituent concentrations in soil vapor underlying the southern end of Daniels Drive. Soil vapor samples were collected at seven locations along the western side of Daniels Drive, with the greatest concentration of samples in the area most likely to be affected by the solvent constituent plume. The goal of the investigation was to assess the potential solvent vapor migration pathway to residents of Daniels Drive, a pathway previously evaluated by collecting samples of air from selected crawlspaces and basements. The soil vapor samples were collected in accordance with guidance developed by the Tennessee Division of Underground Storage Tanks (“TDUST”) for the investigations of similar types of chemicals. A number of VOCs, including several that were previously identified in the contaminant plume, were detected in the samples and

the results were evaluated using both federal and state risk-based standards. Three organizations – the Tennessee Department of Health ("TDH"), SAIC (an environmental contractor working for TDEC), and TriAD – evaluated the resulting data and concluded that there was no unacceptable risk to human health posed by the vapor migration pathway.

During discussions held in 2012 regarding development of the FCAP, TDOR officials acknowledged that ELMCO had complied with all requirements relative to vapor intrusion, but expressed a desire for the soil-gas migration pathway along Daniels Drive to be further monitored to ensure that there was no long-term risk posed by this pathway. TDOR formally required the collection and evaluation of long-term soil-gas data in a letter to TriAD dated November 5, 2012. The purpose of such data collection and evaluation was to determine whether there was a discernible trend in the concentrations of solvent-related VOCs in soil gas overlying the bedrock cutter-fracture zone that is the principal groundwater migration route between the ELMCO facility and seeps along Liberty Creek. It was believed that an upward trend could indicate the development of a potential future vapor intrusion risk to the Daniels Drive residents.

On November 8, 2012, TriAD (on behalf of ELMCO) submitted the *Work Plan for Long-Term Soil-Gas Monitoring, Daniels Drive* to TDOR. The plan was conditionally approved by TDOR in a letter to TriAD dated January 31, 2013. Pursuant to the approved plan, soil-gas concentrations of benzene, toluene, ethylbenzene, and xylenes were to be monitored quarterly for a period of at least one year at a single monitoring point located in the cul-de-sac area of Daniels Drive. ELMCO installed the monitoring point in May 2013, and four rounds of soil-gas sampling were completed and reported to TDEC.

Per the approved plan, the soil-gas data were evaluated to determine if soil-gas monitoring could be terminated or must continue. The evaluation found no evidence of a significant increasing trend in soil-gas concentrations, and TDOR agreed that no evidence

of unacceptable current or future risk to local residents existed. This decision was formalized in an email dated September 30, 2014, from Ahmet Bulbulkaya of TDOR. As approved by TDOR, the soil-gas monitoring point was permanently abandoned in December 2014.

3.7.3 Daniels Drive Indoor Air Testing

In addition to the initial crawlspace and basement OVM screening performed by EnSafe (as a TDEC contractor) in February 2007, two indoor-air monitoring events have also been performed to determine if solvent vapors are entering Daniels Drive homes. In the April 2007 monitoring event, EnSafe (on behalf of ELMCO) collected time-integrated (24-hour) samples from the air in the crawl space of 116 Daniels Drive, the basement of 127 Daniels Drive, and the basement of 131 Daniels Drive. The results indicated no vapor intrusion hazard from toluene, acetone, or isopropyl alcohol (underground pipe testing had indicated the likelihood of a leak of isopropyl alcohol from the same area as the other solvents; however, no significant concentrations of isopropyl alcohol were ever found in the environment). Benzene had not yet been identified as a constituent of concern.

The second indoor air monitoring event was performed by TDEC in consultation with TDH in January 2010. Despite the lack of risk to Daniels Drive residents demonstrated in the previous air and soil vapor investigations, TDH believed that further investigation of selected residences was warranted. Three homes were selected, with 24-hour air samples collected in the lowest-level living areas at 119, 127, and 129 Daniels Drive. These homes were considered representative of both worst-case location (two were above the main portion of the contaminant plume) and population age. An ambient, outdoor air sample was also collected. All samples were analyzed for acetone and toluene, the two largest components of the solvent release, and benzene, the constituent of greatest concern for human health. TDH evaluated the analytical results using both Agency for Toxic Substances and Disease Registry (ATSDR) and EPA residential chronic screening levels. No unacceptable risk was identified. In two of the homes, VOC

concentrations were similar to those found in the ambient air sample. In the third home, higher-than-ambient concentrations of toluene and benzene were identified, but these concentrations, attributed to gasoline stored in the home's basement, were still considered below risk levels.

3.8 Voluntary Groundwater Biostimulation Efforts

In 2010, ELMCO retained AquAeTer to study the possibility of using their patented biostimulation technology to further remediate the contaminated groundwater. This effort was not required or requested by TDEC, and was not part of any agreed interim action. The goal of this effort was to further reduce the amount of toluene (the only VOC remaining in sufficient concentrations to cause risk to the environment) emerging at the seeps in Liberty Creek. AquAeTer performed two investigations, a dye trace and a bench-scale test, to assess the possible applicability of this method. Ultimately, two dye traces were conducted, one from the solvent recovery trench and one from the source area (well RW-1). Simultaneously, a bench-scale test using samples of contaminated water and AquAeter's AquAeTane biostimulant was performed to determine whether the technology would work and how much AquAeTane would need to be applied to achieve the desired results. AquAeTane is a mixture of pentane, hydrogen peroxide, and water that delivers oxygen and a food source to indigenous microbes, speeding up the existing, natural microbial degradation by aerobic processes.

The dye trace results showed rapid groundwater flow rates. Travel time from the trench to the seeps was approximately 30 minutes, and from RW-1 to the seeps was approximately 31 hours (approximately 24 feet per hour). (The second trace also showed a travel time of about 28 hours from RW-1 to seep HR-2 on the Harpeth River, a velocity of approximately 12.5 feet per hour.)

The bench-scale treatability study demonstrated that AquAeTane could effectively degrade the acetone and toluene present in the groundwater sample, provided a sufficient

level of dissolved oxygen (DO) was maintained in the system. AquAeTer's stated goal was to maintain sufficient DO in the injection wells to increase the DO at the seeps to greater than 1 mg/L, creating aerobic conditions where anaerobic conditions were present. The selected biostimulant injection rate was 7.6 gallons per day.

Based on the results of the dye traces and the bench-scale test, and after consultation with ELMCO and TriAD, AquAeTer proposed to continuously drip-inject its biostimulant into monitoring well RW-1 and vapor extraction wells EV-8 and EV-10 in the source area. Permission for the injection was obtained from TDEC's Division of Water Pollution Control, and injection began into RW-1 on July 31, 2010, and into wells EV-8 and EV-10 on August 13, 2010. Injection at all three locations continued until August 2011.

To monitor the effectiveness of the biostimulation effort, AquAeTer collected and had analyzed (for VOCs) quarterly samples from the injection wells, Liberty Creek seep LC-MS, Harpeth River seep HR-2, and the Recovery Sump (at the converted recovery trench near Liberty Creek) during the remediation effort. Pursuant to their plan, AquAeTer continued to implement this quarterly monitoring program for 2 years after injection was terminated, except that monitoring was terminated early at seep HR-2 (which was officially removed from the monitoring network following the September 2011 monitoring event) and the Recovery Sump (which was permanently closed in December 2011). AquAeTer submitted *Biostimulation Activities* reports, which included their quarterly monitoring results, to TDEC on a regular basis throughout the injection and post-injection monitoring periods. Throughout the process, TriAD continued scheduled groundwater monitoring at all seep and surface water locations and all groundwater monitoring wells except well RW-1.

Data from the biostimulant remediation effort has been carefully reviewed and has provided no indication that the technology was successful in measurably reducing contaminant concentrations in the aquifer, at the seeps, or in Liberty Creek. Despite

increased DO levels and reduction of contaminant concentrations in the wells into which the AquAeTane was being injected, there were no changes in the surrounding aquifer that could be attributed to the injection. The following discussions summarize the relevant data:

- Toluene and acetone concentrations in samples from EV-8 showed declines during the injection, although significant variability in concentrations during the treatment made it difficult to establish overall trends. Both constituents increased in concentration after injection ceased, but the lack of pre-injection data makes it impossible to determine whether these increases represent a return to pre-injection concentrations or to some lower or higher level. It is important to note that well EV-8 was installed into the most contaminated soil in the source area, where even residual constituent concentrations can be expected to be high, and typically produces very little water. This well was dry during the January and March 2011 and February 2013 monitoring events.

- Toluene and acetone concentrations in samples from EV-10 showed declines during injection, as compared to baseline data, and did not increase – indeed, fluctuated – after injection ceased. The AquAeTer data from 2013 showed a decrease in acetone and toluene concentrations to levels less than pre-injection levels.

- Acetone had virtually disappeared from samples collected at well RW-1 before injection started, so there was no measurable change in that constituent during injection. (Data collected by AquAeTer in August 2012 showed detectable concentrations of acetone, but sample and duplicate results from that event exhibited a relative percent difference greater than 150 percent, so the data could be considered only estimated. Subsequent data, collected by AquaAeTer and TriAD, confirm the lack of acetone in samples from well RW-1.) Toluene

concentrations increased somewhat in samples from RW-1 collected during injection except for the last two events (May and August of 2011), when a significant decline was noted. Since injection ceased, toluene concentrations returned to pre-injection levels then declined significantly since March 2013. During the period from 2007 to 2010, prior to injection, contaminant concentrations in samples from RW-1 showed a declining trend, despite short-term increases caused by vacuum extraction testing. After the final vacuum extraction test, in June 2009, the concentration of toluene decreased significantly, with the trend line shown on the charts in Appendix 5. As also shown on the charts, the downward trend during injection was significantly less than the pre-injection (2009 to 2010) trend – no increase in the rate of contaminant degradation was noted. (It is unlikely that the injection of biostimulant reduced the degradation rate – the rate was already approaching an asymptotic trend.)

- Well AR-1 is the nearest down-gradient monitoring well to the injection wells, and has been proven to be hydraulically connected to them. It was therefore the nearest effectiveness monitoring well for evaluating the injection of the biostimulant. As at RW-1, acetone had virtually disappeared from samples collected at well AR-1 before injection started, and has not reappeared since injection ceased. Toluene concentrations, with a brief exception during the vacuum testing of well AR-1 in June 2009, were on a downward trend through June 2010. This downward trend continued, although at a reduced rate, during injection of the biostimulant. As with RW-1, the injection was not likely responsible for this reduction in degradation rate – the rate was already approaching an asymptotic trend. Toluene concentrations have not increased since injection ceased, with the exception of slight, isolated increases in December 2011 and March 2013. Concentrations of DO, a principal measure of the effectiveness of the AquAeTane's ability to oxygenate the aquifer, remained unchanged at AR-1 during the injection, despite its close proximity to injection well RW-1.

- Concentrations of toluene and DO at monitoring location LC-MS, and of toluene at the recovery trench, showed no measurable change during injection of the biostimulant. A decline in toluene concentration at LC-MS was observed from March to December 2012, beginning several months after injection ceased. However, there are no data available that indicate the 2012 decline was the result of the injection. In fact, given the rapid groundwater flow velocity, any reduction in contaminant concentrations caused by the injection should have become evident at LC-MS during the year-long injection. Toluene concentrations increased from March 2013 to March 2014, then declined significantly to March 2015. As documented in Section 3.6, variation in toluene concentration in samples from LC-MS is common and expected.

In summary, although short-term reductions in contaminants were achieved in the injection wells, there is no evidence that the effort to stimulate the biological degradation using AquAeTane produced any increase in the rate of reduction in contaminant concentrations in the aquifer as a whole and therefore apparently did not reduce the concentrations of contaminants emerging into Liberty Creek.

4.0 SITE CONCEPTUAL MODEL

The following paragraphs present a conceptual model of the release, migration, and fate of the contaminants associated with ELMCO's solvent release. The model is based on the data collected during the course of the investigations and remedial efforts at the Site, as summarized in previous sections of this FCAP.

The solvent release occurred as a long-term leak from corroded underground pipe elbows on the south side of the ELMCO tank farm. The source of the leak was removed promptly following its discovery in early 2007, and the tank farm was removed in early 2008. No additional source of solvent capable of producing significant groundwater or surface water contamination exists at the Site. Remedial efforts (vacuum extraction) in the Source Area

soils resulted in the removal (as vapor) of several thousand liquid gallons of solvents, and hundreds of gallons of free-product solvent were intercepted and removed from the Liberty Creek area.

Within days of discovering the release, it was determined that the aquifer in the vicinity of the Site was not being used for human consumption or irrigation and that residents and schoolchildren were not at risk from acute exposure to solvent vapors, either outside or in their homes or school. Later work demonstrated no risk for chronic exposure to residents or schoolchildren. It was also demonstrated that there was no risk to drinking water obtained from the Harpeth River or to recreational users of the Harpeth River, despite entry into the river of dissolved-phase solvent constituents. Receptor populations therefore consist of recreational users of, and ecological receptors in, Liberty Creek.

During their release from the tank-farm pipe elbows, the solvents migrated downward through the silty, sandy clay of the unsaturated zone, spreading out slightly to form a column, or subsurface “mound” of VOC-impacted soil roughly 75 feet long, 45 feet wide, and 20 to 30 feet deep. Upon encountering bedrock, the solvents followed along the irregular surface, resulting in a larger top-of-rock contaminant footprint, but one still confined to the area immediately south and west of the former tank farm. The majority of the released solvent encountering the bedrock migrated west-northwest along a bedrock cutter that measures roughly 35 feet deep at the Site’s western boundary and contains significant weathered bedrock and perched groundwater. The cutter, which follows regional bedrock fracture patterns, acts as a recharge area for the wider bedrock aquifer. Groundwater migration rates along the cutter/fracture path apparently vary dramatically from point to point, but the overall average is approximately 600 feet per day, allowing dissolved-phase contaminants to emerge at Liberty Creek in about 31 hours. The migration rate of free-product solvent, which floats on top of the water, is somewhat slower due to its lesser inability to flow freely, and this resulted in the dissolved-phase plume

being the first component to emerge at Liberty Creek, followed later by the free-product solvent that was discovered in February 2007.

As the released solvent encountered groundwater, the differing physical properties of the principal contaminants, toluene and acetone, determined their migration characteristics. Toluene, unable to dissolve in water to any significant degree, was largely limited to migration as floating pockets or stringers carried along with the groundwater within the cutter and related fractures in a narrow band toward the west-northwest, with some migration laterally into bedding plane fractures along the cutter, as observed at MW-3. It emerged at the surface in the seeps at Liberty Creek, where free-product toluene formed the principal component of the contaminant plume from February 2007 until early 2008. Acetone, being completely miscible in water, was the principal component of a larger, dissolved-phase plume that migrated at the same rate as the water along bedding planes and fractures outward through the saturated thickness of the aquifer. This dissolved phase, consisting primarily of acetone with some toluene and other ancillary VOCs, was encountered in perimeter monitoring wells, the seeps along the Harpeth, and as a component of the plume emerging along Liberty Creek. No free-product solvent was observed in the Harpeth River seeps or perimeter wells. Data from MW-1 and MW-5, at the edge of the dissolved-phase plume, showed no detectable concentrations of acetone but have shown other solvent-related VOCs, including toluene and benzene, at different ratios than observed in the main body of the plume closer to the source. These different ratios near the edge of the plume are expected due to the effects of dilution, volatilization, biological degradation, and differing solubilities of the various constituents.

The exact migration pathways of the free-product solvent component of the plume could not be established with certainty without large-scale, disruptive investigations along the presumed pathway, including within the residential area along Daniels Drive. However, from the location of points where it was observed it may be concluded that the free-product component occurred as a series of pockets and stringers of solvent within a

narrow band of weathered, fractured bedrock trending west-northwest between the former pipe elbows and the seeps at Liberty Creek. During the period of maximum contaminant migration, some of the free-product solvent entered small fractures and open bedding planes near, but poorly connected to, the cutter. The lack of significant groundwater movement within these “backwaters” prevents the rapid degradation of the free product. The current status of this trapped free-product solvent – its location, volume, or even whether it exists – cannot be determined directly. However, monitoring data for the seeps and monitoring wells demonstrate that any present free-product solvent volume is a tiny fraction of that present in 2007 and continues to decline. No free-product solvent discharges were observed in Liberty Creek or the converted trench collection sump after early 2009, nor has measurable free-product solvent been observed at MW-3 since a small quantity was removed in March 2008. The presence of significant but gradually declining dissolved concentrations of toluene, with essentially no acetone, in the groundwater still emerging at the seeps on the east bank of Liberty Creek demonstrates both that some small pockets of trapped free-product solvent still exist in the subsurface cutter system and that those pockets are continuing to gradually dissolve away into the groundwater.

The dissolved-phase component of the groundwater contaminant plume previously existed within a broad area, from well MW-1 to the east, Liberty Creek to the west, the Harpeth River to the south, and well MW-5 to the north. However, the most recent groundwater and seep monitoring data show that the plume, which no longer contains acetone at concentrations above the drinking-water screening level, has decreased in size and now includes only a narrow zone between the Source Area at the former tank farm and the Main Seep area at Liberty Creek (along the long-axis of the cutter-fracture system).

From data gathered during the Geoprobe and air-rotary drilling investigations, it is apparent that both the free-product and dissolved-phase components of the plume

existed at an elevation of approximately 627 feet above MSL just west of the on-Site contaminated soil column. The elevation of contaminated soil within the cutter under Daniels Drive was approximately 611 feet MSL, which is also the approximate elevation at which the Main Seep discharges into Liberty Creek. With only gravity driving the flow of groundwater and free-product solvent from the higher to lower elevation, it is apparent that no significant amount of the released free-product solvent could have been present above this elevation between the Site and Liberty Creek. The elevations of residences along Daniels Drive that are in the path of the free-product component of the plume are approximately 640 to 650 feet above MSL. This means that such residences are protected from vapor intrusion by a thick layer of silty clay soil that exhibits oxygenated conditions in the vadose zone, providing an effective barrier to upward migration of vapors. Air monitoring in homes and soil vapor sampling in the subsurface along Daniels Drive demonstrated that vapor phase transport from the contaminated water did not and is not posing a risk to the residents of this area.

There are underground private and municipal sewer lines in the area. The elevation of the private sewer line along the east side of the railroad spur track is well above the 627-foot maximum elevation of the contaminated groundwater and cannot therefore be acting as a migration pathway. The same may be said for the municipal sewer line along Daniels Drive. It is likely, however, that the municipal sewer lines along Liberty Creek and the Harpeth River are acting as migration pathways, if only secondarily through flooding during wet seasons. The elevation of the Main Seep at Liberty Creek was measured at approximately 611 feet above MSL. The elevation of the sewer invert 40 feet east is approximately 613 feet above MSL. It is therefore possible that contaminated groundwater could enter the backfill around the sewer line during high-water events and migrate downgradient through the backfill (i.e., toward the Harpeth River). Indeed, contaminants were detected in water samples collected at HR-1, a seep that was apparently caused by the backup of water along the sewer line that crosses under the Harpeth River at that location. A similar situation could exist in the municipal sewer line

along the Harpeth River between Liberty Creek and the railroad bridge, although the invert elevations of this sewer line are unknown. In either case the contaminated water would migrate along the sewer line backfill into areas already affected by the dissolved-phase component of the plume and would not introduce additional migration risks.

Microbiological and chemical sampling and analysis performed on surface water and groundwater samples in February 2008 and on creek sediment samples collected in August 2008 indicated a variety of microbiological strains and chemical conditions that are favorable to the anaerobic degradation of acetone and toluene, as well as the ancillary VOCs. As documented in TriAD's *Report of Additional Solvent Release Investigations* (March 25, 2008), Microbe Inotech laboratories ("MiL") identified a total of 19 strains (some of which were variants of single strains), many of which were rated as good or excellent degraders. A later edition of the MiL report (June 16, 2008, included as Appendix 3 to TriAD's June, 23, 2008 RCCAP), stated that in the absence of free product the dissolved toluene contaminant plume in groundwater (ranging in concentration at that time from 525 mg/L to undetectable and consisting of an estimated 842.6 kg total mass) would be degraded to less than 10 mg/L in 8.4 months. A later email amendment to the report stated that the drinking water standard of 1 mg/L toluene would be achieved in 9.8 months (if free-product solvent were absent). These estimates were based on the number and type of microbial degraders, the estimated total mass of contaminants (including acetone) present across the plume in 2008, the nutrient levels measured in February 2008, and the removal of the free product from the system. As noted above, the present amount of free product in the system is unknown, but is certainly a small fraction of what was present at the time of the MiL estimate. MiL stated that augmentation of the system with nutrients was unnecessary to achieve remediation in the time frames cited. Since that time acetone has virtually disappeared from the aquifer, indicating that natural attenuation by microbial and other degradation agents worked very effectively on that portion of the plume that was not being replenished by free-product solvent trapped in portions of the aquifer. Indeed, the decrease in size of the dissolved-phase portion of

the plume indicates that natural degradation rates exceed the capacity of the residual free-product solvent to replenish the dissolved-phase plume.

It has become apparent since 2008 that sufficient volume of free-product solvent (principally toluene) remained in Source Area soils and in relatively isolated pockets and poorly interconnected fractures within the aquifer to result in ongoing contamination of groundwater as it emerges at the Liberty Creek seeps. It has become equally apparent that these concentrations are due to residual contaminants located between the Source Area at the Site and Liberty Creek rather than at the Source Area. Concentrations of toluene in monitoring wells RW-1 and AR-1, located just down-gradient of the Source Area, are significantly less than those measured at LC-MS. This indicates that the Source Area, though still contaminated with residual solvent constituents, is not contributing the majority of the toluene emerging at Liberty Creek. Time-trend charts of toluene concentrations show that declining trends continue at the seeps and monitoring wells near the Source Area. Because of its position as the principal point of emergence for the cutter/fracture system into which the free product was accidentally released, it is expected that this seep will continue to exhibit dissolved toluene concentrations as long as pockets of free product, such as apparently exist in the vicinity of well MW-3, remain in the subsurface.

5.0 RISK ASSESSMENT FINDINGS

In 2008, Mr. Mark Bowers of Secaps Environmental, Inc., ("Secaps") was retained by ELMCO, through its attorneys Stites & Harbison PLLC, to perform a screening level risk assessment for both human and ecological receptors in the vicinity of the ELMCO facility and the affected portions of the Harpeth River and Liberty Creek. The purpose of the risk assessment was to aid in directing remedial action to those areas and conditions that posed significant risk to human health or the environment, and was performed in accordance with U.S. EPA guidance. Secaps' 2008 report, *Risk Assessment in Support of Corrective Action Plans*, was originally presented in the 2008 CAP and is included in Appendix 7 of this FCAP.

In a meeting with ELMCO representatives on June 19, 2012 (see Subsection 2.4 for further discussion), TDEC officials expressed their general determination that the Secaps 2008 *Risk Assessment* had adequately assessed the potential risks of the remaining contamination from the solvent release. However, TDEC did have concerns that the evaluation of risks to children possibly playing in the impacted portions of Liberty Creek was not sufficient because it utilized air monitoring data collected from monitoring points well away from the stream which might not reflect actual conditions within the stream banks. In subsequent discussions between ELMCO and TDEC representatives, it was determined that this portion of the risk assessment should be re-done using ambient air data from an additional, new monitoring point located a few feet above the water surface within the banks of Liberty Creek. A sampling methodology for this one-time, time-integrated sample was agreed upon, as were the more realistic but still conservative exposure assumptions to be used in the risk re-assessment. TDEC clarified that toluene was now the sole constituent of concern for this child exposure route.

TriAD collected a SUMMA canister sample using the agreed-upon methodology on August 21, 2012, and the sample was analyzed for toluene by TestAmerica. TriAD's letter report, dated August 30, 2012, summarizing this air sampling effort at Liberty Creek and presenting the analytical results was provided to Secaps' Mark Bowers who utilized the data in performing the agreed-upon re-assessment of the risks the residual contaminants in surface water might have on children playing in the impacted portions of Liberty Creek.

Mr. Bowers' partial risk re-assessment is presented in Secaps' October 2012 report titled *Addendum to June 2008 Risk Assessment in Support of Corrective Action Plans*, which is also included in Appendix 7 of this FCAP. TriAD's August 30, 2012, report is included as Attachment A of this *Addendum*. In the *Addendum*, Mr. Bowers uses the August 2012 Liberty Creek air data along with the then most recent seep and surface water monitoring data and the agreed-upon exposure assumptions to re-evaluate the inhalation, dermal,

and incidental ingestion pathways for recreational, child users of Liberty Creek. The *Addendum* was submitted to TDEC on October 2, 2012.

The combined findings presented in Secaps' 2008 *Risk Assessment* and 2012 *Addendum* are summarized in the following subsections.

5.1 Human Health Risk

In 2008, both residential and recreational receptor scenarios were assessed to determine what level of risk would result to the public if no further action were taken with regard to the contamination that had resulted from ELMCO's solvent release. (Note: ELMCO has since performed additional remediation work, as described in Section 3 of this report. The 2008 risk assessment evaluated conditions as they existed at the site in June 2008.) Conservative assumptions of reasonable maximum exposure were used to ensure that the findings would be reflective of reasonable worst-case conditions. The conclusion of the 2008 human health risk assessment was that toluene was the sole chemical of concern and that the contaminant conditions as they then existed posed no significant risk to local populations and required no action to protect human health.

As indicated above, TDEC still considered the finding of no significant risk for local residents along Daniels Drive and staff and students at the BGA school valid as of 2012, by which time constituent concentrations in local surface water and groundwater had declined significantly from 2008 levels. In its 2012 re-assessment of the risk posed to children playing in Liberty Creek, Secaps found that such children would be exposed to a hazard index of 0.1, which is significantly less than the risk threshold of 1.0 for non-carcinogenic substances such as toluene. It was therefore concluded that the residual contamination levels in Liberty Creek also pose no significant risk to recreational users of Liberty Creek. Those contamination levels, and thus any associated risk, have further declined since 2012.

5.2 Ecological Risk

In 2008, exposure to ecological receptors in both the Harpeth River and Liberty Creek was assessed to determine what level of risk would result to the environment if no further action were to be taken with regard to contamination resulting from ELMCO's solvent release. (Note: ELMCO has since performed additional site remediation work, as described in Section 3 of this report. The risk assessment evaluated conditions as they existed at the site in June 2008.)

The assessment for the Harpeth River confirmed previous TDEC findings that the contamination then entering the river posed no significant risk to aquatic organisms. Low dissolved oxygen effects on the benthic organisms in isolated areas immediately adjacent to the seeps were not expected to have a quantifiable effect on the overall river ecosystem. Since 2008, solvent constituent concentrations in the seeps discharging to the Harpeth River have declined to virtually undetectable levels, further reducing whatever minimal risk existed for this receptor.

The assessment for Liberty Creek found that fish and benthic organisms in the lower portion of the stream – that portion that receives groundwater contaminated from the ELMCO solvent release and particularly in the immediate vicinities of such seeps – were potentially at risk due to the presence of solvent constituents in surface water, particularly during dry periods of low flow. Episodic low dissolved-oxygen periods were reportedly possible where contaminants induced eutrophic conditions that could affect resident organisms. As described in the following paragraph, however, solvent constituent concentrations have decreased significantly in Liberty Creek since 2008 and the ecological risk identified at that time has also significantly lessened, reducing but not eliminating the ecological risk identified at that time.

The 2008 *Risk Assessment* identified acetone and toluene as the only chemicals of potential ecological concern and found that of the nine then most recently tested samples

from the LC-PC surface water sampling location at Liberty Creek, several of the acetone and toluene measurements exceeded the conservative ecological screening levels utilized. [Note: Because Tennessee has established no ecological Water Quality Criteria for these compounds, the risk assessor used screening levels used by EPA Region IV (for toluene) and the Michigan Department of Environmental Quality (for acetone).] Five of the nine samples exceeded the acetone screening level for chronic effects although none exceeded the acute effects screening level. All nine samples exceeded both the chronic effects and acute effects screening levels for toluene. Repeating this comparison using the four acetone and toluene measurements obtained from the LC-PC monitoring location in 2012 shows no exceedances of acetone screening levels and only the first two quarterly toluene measurements exceeding the toluene screening level for acute effects (all four toluene measurements still exceeded the chronic effects screening level utilized). Further, a recalculation of the Mean Hazard Index for ecological risk at the LC-PC location finds that it dropped from a value of 39 based on early 2008 data to 9 based on 2012 data. Concentrations of solvent constituents have declined since that time.

In 2012, TDEC found the ecological risk assessment performed in 2008 to be still sufficient, and no update to that assessment was performed for this FCAP.

6.0 PROPOSED FINAL REMEDY

The residual environmental contamination toward which this FCAP is targeted resulted from accidental solvent leakage from the underground piping elbows on the south side of the former tank farm at the ELMCO facility. The leakage was stopped promptly upon its discovery early in 2007. Since then, the substantial but finite amount of solvent that was released has principally been (1) dispersed, diluted, and attenuated by natural mechanisms in the environment, or (2) removed and properly treated or disposed of through ELMCO and TDEC remediation efforts. Monitoring data shows that natural mechanisms in the environment have continued, and will in all likelihood continue further, to disperse, dilute, and attenuate the solvent constituents that remains. At question, then,

is what further efforts – if any – ELMCO and/or TDEC should undertake as a final remedy for the residual contamination.

Based on the information presented in previous sections of this document, ELMCO has determined that the current contaminant conditions resulting from ELMCO's historical solvent release warrant a final remedy involving only (1) continued monitoring to verify that natural mechanisms continue to attenuate contaminant concentrations in groundwater and surface water, and (2) the establishment of certain land use restrictions at the ELMCO site to control potential future human exposure to the subsurface contamination in the vicinity of the Source Area. The rationale for this determination is presented in Subsection 6.1 below, while the specifics of the above two elements of the final remedy are described in Subsections 6.2 and 6.3. Further remediation efforts might therefore be needed only in the unlikely event that such continuing monitoring finds that contaminant concentrations in groundwater and/or surface water do not gradually decrease as expected.

6.1 Rationale

T.C.A. §68-212-206(d)(1) sets forth the factors that TDEC may consider in selecting further containment and clean up actions, including monitoring and maintenance, deemed necessary in response to the ELMCO solvent release. It also makes clear that the driver for implementation of further containment and clean-up actions would be the protection of public health, safety, and the environment from the risks which the residual environmental contamination may pose. However, as described in the *Risk Assessment* and risk assessment *Addendum* included in Appendix 7 and summarized in Section 5, the risks posed by the residual contamination are quite limited. The following paragraphs describe why the proposed monitoring-only final remedy is appropriate for the residual contamination that remains in on-Site and off-Site soils, soil gas, groundwater, and surface water as a result of the ELMCO solvent release:

(1) The only significant remaining soil contamination resides in the deeper subsurface soils in the Source Area at the south end of the former tank farm at the ELMCO facility. However, this contamination currently poses no direct risk to human health because there is no current pathway of direct human exposure. While direct human exposure to this contamination in the future also seems unlikely, ELMCO intends to provide additional protection by establishing land use restrictions that will warn future site owners/occupants of the soil contamination and restrict access to it (see Subsection 6.3).

(2) The residual soil contamination in the Source Area is serving as a continuing source of groundwater contamination. However, the available data indicates that these Source Area soils are not the primary source of the elevated levels of contamination in groundwater entering Liberty Creek. Further, the Source Area soil contamination does not pose a current risk to human health via the groundwater pathway because the impacted groundwater between the Source Area and Liberty Creek / Harpeth River is not being used. For the following reasons, it is also unlikely that the impacted groundwater will be used by humans in the future: (1) the ready availability of municipal water; (2) the land uses in the impacted area; and (3) the low yield of the impacted aquifer. Considering also that the remaining contaminant mass in the soils is limited, the contaminants readily degrade in the natural environment, and the contaminated soils reside in the bedrock cutter-fracture zone through which a substantial amount of infiltrating rain water flushes, it is very likely that the residual contamination will be naturally attenuated within a relatively few years to levels that would pose no risk to humans even if the water was consumed. For all of these reasons, ELMCO has determined that there is no need to attempt further efforts to reduce contaminant concentrations in the Source Area soils. Protection of public health, safety, and the environment can be achieved by continuing to periodically monitor Source Area monitoring wells AR-1 and RW-1 as described in Subsection 6.2.1 to confirm that

the Source Area soils' impact on groundwater continues to decline as expected. It is also worthy to note that ELMCO's past remediation efforts have shown that further efforts to actively remediate the contaminated soils would be technologically difficult and costly.

(3) Both the extent of, and contaminant concentrations in, the plume of groundwater contamination have substantially decreased since 2007. However, the most recent (March 2015) groundwater monitoring results show toluene and/or benzene concentrations still exceeding General Use Groundwater criteria levels in a relatively narrow band surrounding the cutter-fracture zone that forms the principal contaminant migration route between the Source Area at the ELMCO facility and Liberty Creek (see Figure 9). While the Source Area soils still contribute some contamination to the groundwater as described in Item (2) above, it has become evident that it is residual solvent contamination within this cutter-fracture zone – likely including small, isolated pockets of free-product solvent caught in lenses of tight clay or within small bedrock fractures – that is the principal source of the groundwater contaminants flowing through this zone and discharging from seeps into Liberty Creek. As described in Item (2) above, however, this groundwater does not pose a direct human health risk because it is not currently being used and there is little likelihood that it will be used in the future. Further, the data trends (see Appendix 5) make it apparent that the residual contamination will be naturally attenuated within a relatively few years to levels that pose no risk. Just as for the Source Area soils in Item (2) above, ELMCO has for all of these reasons determined that there is no need to attempt further efforts to reduce contaminant concentrations in the groundwater to protect humans from use of the contaminated groundwater. Protection of public health and safety can be achieved by continuing to periodically monitor key monitoring wells as described in Subsection 6.2.1, and the Main Seep discharge (the LC-MS location) as described in Subsection 6.2.2, to confirm that contaminant concentrations in groundwater continue to decline as

expected. It is also worthy to note that, except for the vapor extraction efforts performed in and near the Source Area, the diligent efforts of ELMCO and TriAD were never able to identify a feasible and cost-effective technology for reducing contaminant concentrations within the groundwater.

(4) Since the discovery of the solvent release, there was concern that solvent vapors from the contaminated groundwater – and from the residual pockets of greater contamination believed to exist within the cutter-fracture zone groundwater flow path – could migrate upward into the residences at the cul-de-sac end of Daniels Drive and thus into the indoor air that the residents breathe. Since 2007, this indirect, vapor intrusion risk to human health has been investigated several times by TDEC and ELMCO and no unacceptable risk to human health has been found. The investigative evidence indicates that the thick layer of clay soils (along with its associated microbial populations and oxygenated environment) that exists between the bedrock cutter-fracture pathway and the Daniels Drive residences provides an effective barrier against the significant upward migration of solvent vapors. Considering also that groundwater contamination levels have declined substantially since 2007 (when free-product solvent was flowing through the cutter-fracture zone), ELMCO believes it highly unlikely that a vapor intrusion risk to Daniels Drive residents would emerge in the future.

(5) Much of the contaminated groundwater resulting from ELMCO's solvent release discharges, principally via springs and seeps connected to the cutter-fracture pathway, into the small, poor-quality urban stream known as Liberty Creek. Although greatly reduced from the floating free-product solvent discharges that occurred in 2007, the groundwater discharges into Liberty Creek do still contain dissolved concentrations of certain solvent constituents. During periods of normal stream flow and especially during periods of low stream flow, these contaminated groundwater discharges cause elevated levels of these solvent constituents in the

water in approximately the lower 600 feet of Liberty Creek (i.e., from about the "Watergate" monitoring location to Liberty Creek's mouth into the Harpeth River). As described in Section 5 above, however, the current levels of surface water contamination in Liberty Creek do not pose unacceptable human health risk. Further, the surface water contaminant levels will decline as the contaminant levels in the inflowing groundwater declines (see Item (3) above), so the already insignificant risk to human health should only decline further in the future. Protection of public health and safety can be achieved by continuing to periodically monitor surface water as described in Subsection 6.2.2 below to confirm that contaminant concentrations in surface water continue to decline as expected.

(6) As described in Subsection 5.2 above, the volatile organic solvent constituent concentrations in the water in the impacted lower reach of Liberty Creek present some potential risk to benthic organisms and fish, but that risk is lessening as the concentrations decline. It is therefore clear that the current ecological risk in Liberty Creek is substantially less than it was in 2008 and less than it was in 2012. ELMCO has previously had some brief discussions with TDEC about remedial measures that might be taken at Liberty Creek to improve water quality conditions and thus lessen or eliminate the ecological risk, and has identified some such measures in previous corrective action plans. As described in the plans, such efforts would be fraught with difficulty and expense, and might pose their own ecological risks. TDEC has previously not found it necessary for ELMCO to plan and implement such measures on this small, poor-quality, urban stream. Considering that the ecological risks to the stream have very substantially decreased since 2008 and are expected to continue to decrease in the future, ELMCO has determined that there is no need for further efforts toward planning or implementation of such remedial measures. The continuing surface water monitoring described in Subsection 6.2.2 below will provide a means of confirming the continuing decline in ecological risk.

(7) The Harpeth River has in the past received, and presumably still receives, some direct inflow of contaminated groundwater as well as contaminated surface water inflow from Liberty Creek. However, historical surface water monitoring of the much larger Harpeth River never showed concentrations sufficient to pose a significant risk to human users of that stream. Even ELMCO's routine monitoring of the Harpeth River was terminated, with TDEC concurrence, in 2010. As described in Subsection 5.2 above, the 2008 *Risk Assessment* confirmed earlier TDEC findings that the contamination entering the river poses no significant risk to aquatic organisms. Since 2008, solvent constituent concentrations in the discharges to the Harpeth River have significantly declined, further reducing the risks to aquatic organisms. ELMCO has determined that no further efforts are needed with regard to the Harpeth River itself.

6.2 Proposed Monitoring Program

The following subsections describe the monitoring program ELMCO is proposing to implement to allow continued tracking and evaluation of solvent constituent concentrations, and the reassessment of risk (should that be necessary or appropriate). The referenced monitoring locations are shown on Figure 13.

6.2.1 Groundwater Monitoring

Data collected over the last several years indicate that the solvent constituent plume size has decreased significantly since its discovery in 2007 (see Subsection 3.5). Toluene has been the dominant contaminant in the plume since 2008, and acetone is now virtually gone. Evaluation of the entire Site, including surface water and seep data, indicates that the plume of significant contamination from the solvent release now includes only a narrow zone between the Source Area at the former tank farm and the Main Seep area at Liberty Creek. This narrow zone is related to the cutter-fracture zone that directed contaminant migration to the creek.

Based on the above assessment, continued monitoring is necessary only at the following groundwater monitoring wells: MW-1, MW-2, MW-3, AR-1, and RW-1. [Note: As it historically has, collection and analysis of water samples from the Main Seep (location LC-MS in Subsection 6.2.2 below) will provide solvent constituent concentration information in groundwater at the down-gradient end of the plume.]

Monitoring of these five wells will continue on the current semi-annual schedule, with samples analyzed for VOCs by EPA Method 8260B. The monitoring will be performed as previously approved, using dedicated pumps and low-flow purging techniques. Groundwater monitoring reports will be issued to TDEC semi-annually, within 30 days of receipt of the laboratory analytical report.

While they will not be routinely monitored, monitoring wells MW-4 and MW-5 will be maintained for possible future monitoring if future data from the routinely monitored wells indicate a need to do so.

Unless future groundwater monitoring data somehow warrant an increase in the monitoring effort, the above-described groundwater monitoring strategy will continue to be implemented for a two-year period following approval of this FCAP. Upon completion of the two-year period, TDEC and ELMCO will review all available data to determine what additional groundwater monitoring may be required.

Upon completion of the groundwater monitoring program, and upon approval by TDOR, the remaining groundwater monitoring wells will be properly abandoned in accordance with Tennessee rules.

6.2.2 Seep and Surface Water Monitoring

Seep and surface water monitoring is currently conducted semi-annually at the seep location LC-MS, the upstream surface water location Watergate, and the downstream

surface water location LC-PC, with the collected samples analyzed for VOCs by EPA Method 8260B. Since 2010, during these routine events, dissolved oxygen has been measured in the field using a calibrated instrument at these three locations and reported to TDEC. As part of the final remedy, ELMCO proposes to continue monitoring in the same approved manner at these same three locations but with one change: the LC-PC and Watergate samples will be analyzed only for toluene (also by EPA Method 8260B). [Note: The historical data (see Subsection 3.6) show that toluene has been essentially the only contaminant of concern in surface water for the last couple of years.] Seep and surface-water monitoring reports will be issued to TDEC semi-annually, within 30 days of receipt of the laboratory analytical report. These reports may be consolidated with the groundwater monitoring reports described in Subsection 6.2.1 above.

Unless future seep and surface water monitoring data somehow warrant an increase in the monitoring effort, the above-described monitoring strategy will continue to be implemented for a two-year period following approval of this FCAP. Upon completion of the two-year period, TDEC and ELMCO will review all available data to determine what additional seep and surface water monitoring may be required.

6.3 Proposed Land Use Restrictions

As described in Subsection 6.1 above, soil and groundwater contamination in and down-gradient of the Source Area at the west end of the ELMCO facility has been greatly reduced as a result of ELMCO's remediation efforts and natural attenuation, will continue to degrade, and does not currently pose any significant risk to human health. Institutional Controls such as land use restrictions are recognized by both EPA and TDEC as sufficiently effective measures to reduce or eliminate risk to human health from activities that could be conducted on the site in the future. ELMCO therefore proposes to establish the following land-use restrictions within 90 days of TDOR’s approval of this FCAP:

- Figure 14 is a plan-view map of the ELMCO site which shows the Restricted Area where certain of these land use restrictions will apply, monitoring well locations, and other features.

- No excavations or borings below current surface grades will be allowed in the Restricted Area except with the written approval of TDEC or a TDEC successor authority. This shall not apply to shallow excavations associated with activities including, but not limited to, fence repair, landscaping and landscape maintenance, and installation/repair/maintenance/removal of any underground utility lines (such as the facility sanitary sewer line which runs just inside the northwestern boundary of the Restricted Area).

- No structure designed or intended for human occupancy may be constructed or placed in the Restricted Area except with the written approval of TDEC or a TDEC successor authority.

- No water withdrawal well or injection well may be installed and operated on the ELMCO site except with the written approval of TDEC or a TDEC successor authority.

- Until such time as TDEC, or a successor TDEC authority, has approved their proper abandonment, ELMCO or subsequent owners of the ELMCO site must maintain existing monitoring wells MW-1, MW-2, MW-3, AR-1, and RW-1 in good condition and ensure their ready accessibility for purposes of groundwater monitoring.

These land use restrictions will be established so as to "run with the land" in perpetuity unless and until TDEC, or a TDEC successor authority, determines that one or more of the land use restrictions can be made less stringent or cancelled because the risk to human health is sufficiently reduced or eliminated.

Certification

I certify that this document and all attachments were prepared under my direction or supervision to a standard designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the conditions of the property that is the subject of this document and my inquiry of the person or persons who actually planned, managed, and/or performed the investigative and/or remedial activities described herein (except for work previously completed in which neither I nor my firm were involved), I certify that this document and all attachments are true, accurate, and complete, and that all relevant site-specific data of which I am aware are presented in this document or have previously been included in documents submitted to the State Remediation Program.

Printed Name and Title: T. Dwight Hinch, Senior Project Manager

Signature: T. Dwight Hinch Date: 09/04/15

Professional Certification

The following sections of this report were prepared in part or in whole by me or under my supervision in my role as a licensed professional geologist:

Section 2.3
Section 3.3
Section 3.5
Section 3.6
Section 3.8
Section 4.0
Section 6.0

TENNESSEE
CHRISTOPHER M. SCOTT
#1340 9-4-15
LICENSED PROFESSIONAL GEOLOGIST

Printed Name: Chris Scott Tennessee License No.: 1340

Signature: Chris Scott Date: 9-4-15

Figures

N

0 50 100
SCALE IN FEET
(APPROXIMATE)

NOTE

BASE MAP ADAPTED FROM AERIAL PHOTOGRAPH
NOT VERIFIED BY SURVEY.

LEGEND

- MW-2 ◎ MONITORING WELL
- ● SEEP
- ▲ SURFACE WATER MONITORING POINT
- ○ MANHOLE
- STRUCTURE
- VEGETATION
- SANITARY SEWER
- PROPERTY LINE (APPROXIMATE)
- CONCRETE FORD
- N S CROSS-SECTION LINE

FIGURE 1
HISTORICAL WATER
MONITORING LOCATIONS

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

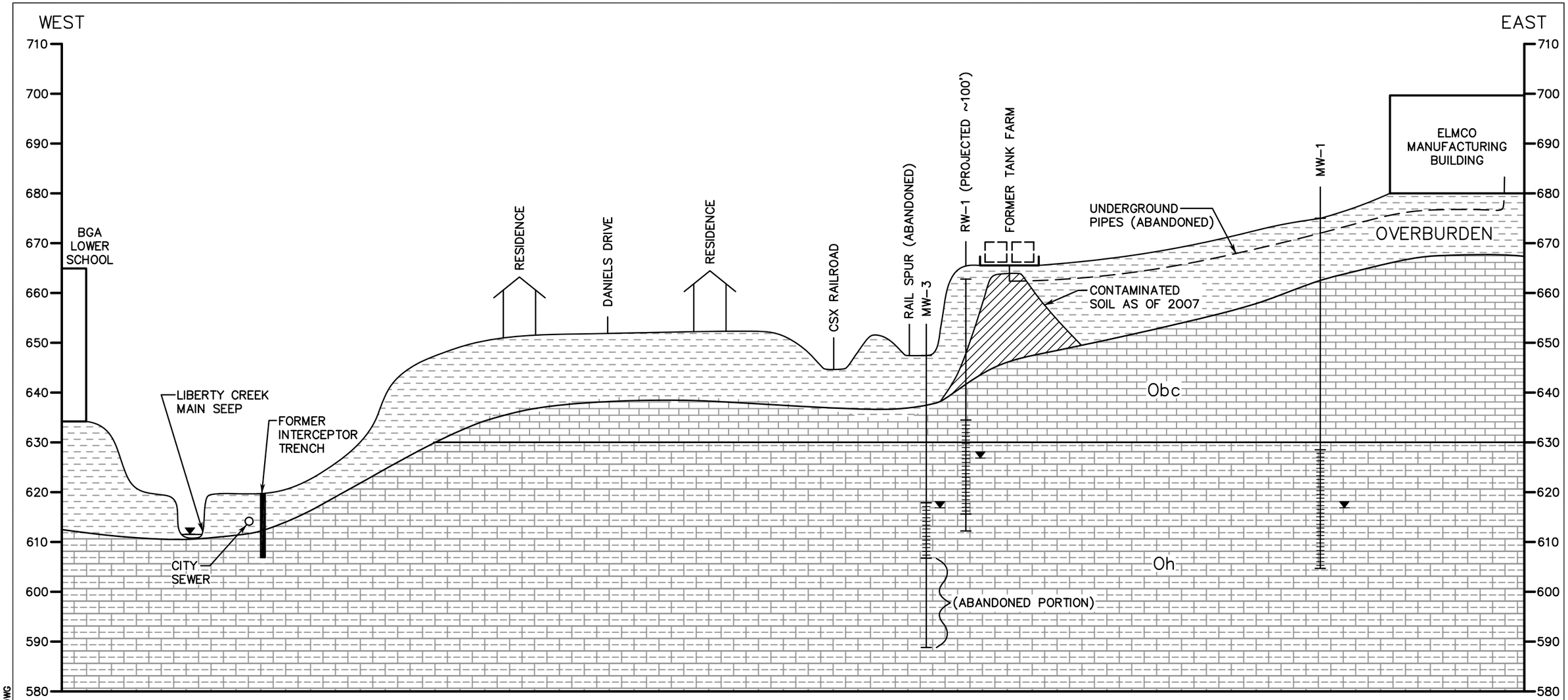
SCALE: AS SHOWN	DR DWF	CHK CMS	REV TDH

PREPARED BY:

TriAD ENVIRONMENTAL CONSULTANTS, INC.
Suite 200, 207 Donelson Pike, Nashville, Tn 37214
615-889-6888 fax 615-889-4004

PROJ: 07-ELM01-01	DATE: 09/03/15	SHEET 1 OF 1

07-ELM01-01-FIG-1-HISTORICAL-WATER-MONITORING-LOCATION-9-3-2015.DWG



NOTES

1. Obc/Oh CONTACT BASED ON GEOLOGIC MAP OF THE FRANKLIN QUADRANGLE, TENNESSEE DIVISION OF GEOLOGY, 1963
2. TOP OF ROCK BASED ON DRILLING DATA, INFERRED BETWEEN DATA POINTS.

LEGEND

- OVERBURDEN
- Obc (BIGBY CANNON LIMESTONE)
- Oh (HERMITAGE LIMESTONE)
- MONITORING WELL SCREEN
- WATER LEVEL ON 06/03/08

SCALE

HORIZ. 1" = 100'
VERT. 1" = 20'

FIGURE 2
WEST TO EAST CROSS SECTION
ELMCO TO LIBERTY CREEK

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: AS SHOWN	DR DWF	CHK CMS	REV TDH

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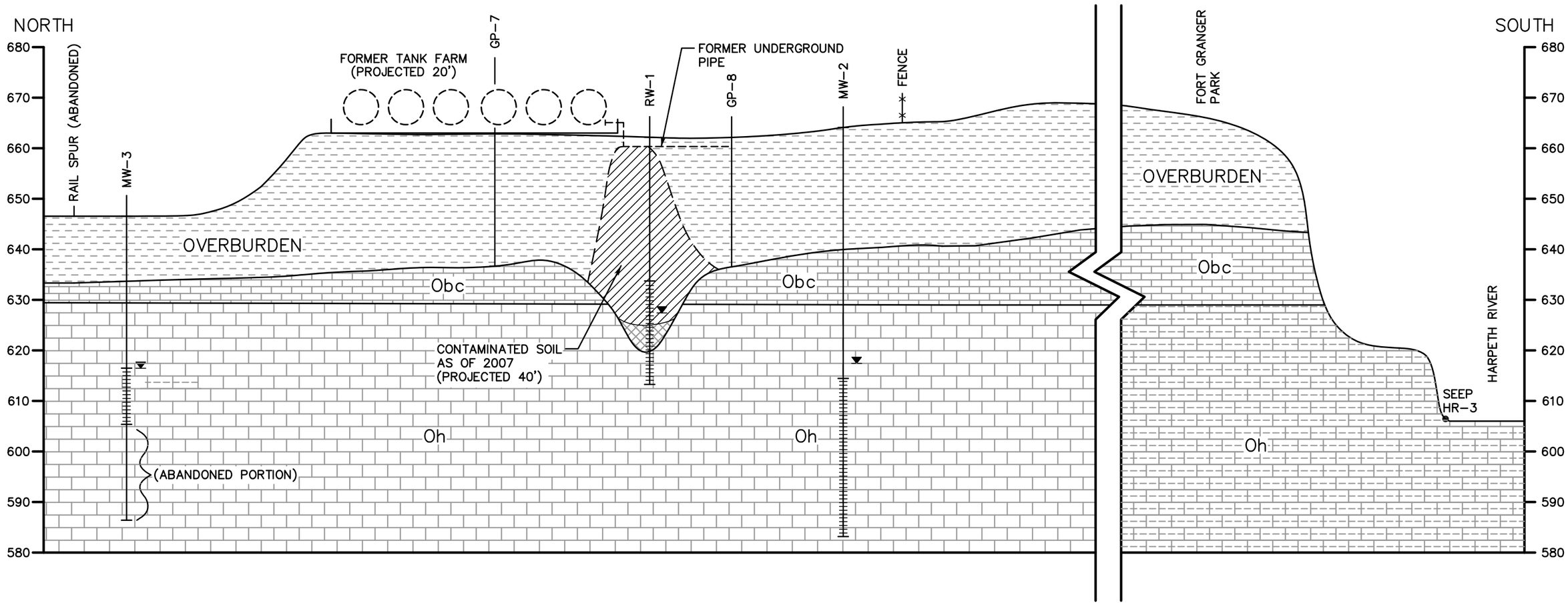
PROJ: 07-ELM01-01	DATE: 02/20/13	SHEET 1 OF 1

07-ELM01-01-FIG-2-EAST-WEST-CROSS-SECTION-2013-CAP.DWG



NOTES

1. Obc/Oh CONTACT BASED ON GEOLOGIC MAP OF THE FRANKLIN QUADRANGLE, TENNESSEE DIVISION OF GEOLOGY, 1963
2. TOP OF ROCK BASED ON DRILLING DATA, INFERRED BETWEEN DATA POINTS.

LEGEND

- OVERBURDEN
- Obc (BIGBY CANNON LIMESTONE)
- Oh (HERMITAGE LIMESTONE)
- WEATHERED BEDROCK
- MONITORING WELL SCREEN
- WATER LEVEL ON 06/03/08

SCALE

HORIZ. 1" = 20'
VERT. 1" = 20'

FIGURE 3
NORTH TO SOUTH CROSS SECTION
ELMCO TO HARPETH RIVER

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: AS SHOWN	DR DWF	CHK CMS	REV TDH

PREPARED BY:

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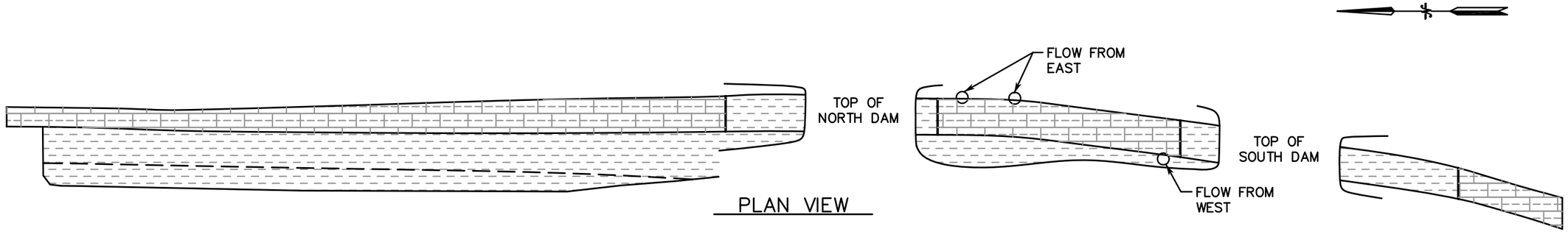
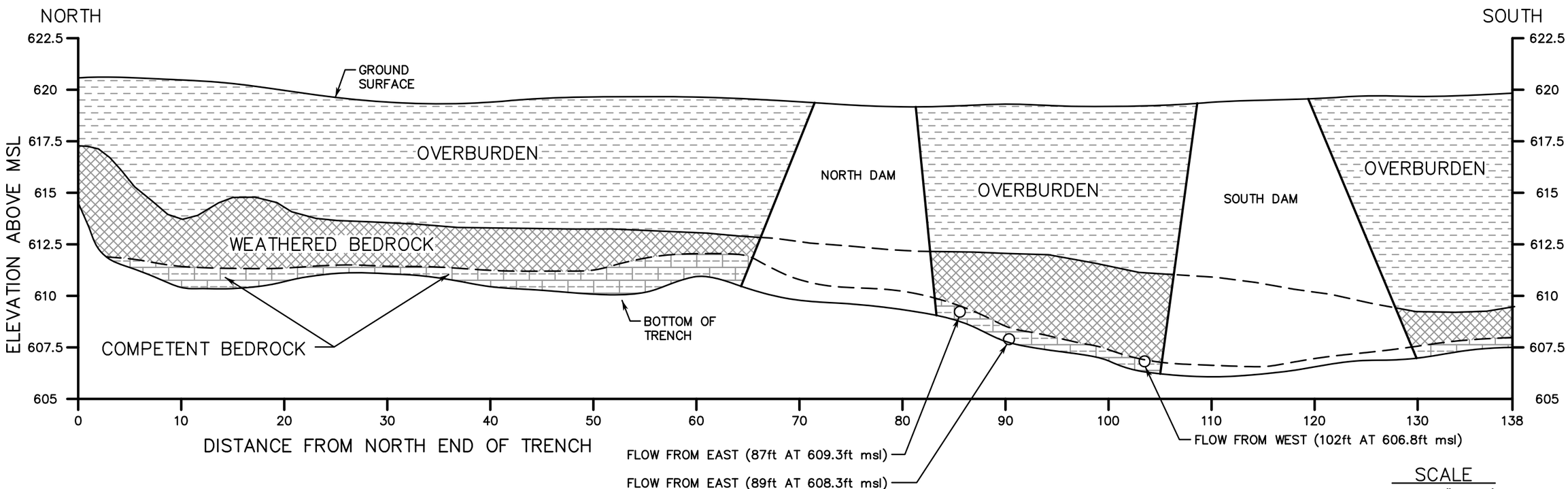
PROJ: 07-ELM01-01	DATE: 02/20/13	SHEET 1 OF 1

07-ELM01-01-FIG-3-NORTH-SOUTH-CROSS-SECTION-2013-CAP.DWG



PLAN VIEW



NORTH TO SOUTH CROSS SECTION

SCALE
HORIZ. 1" = 10'
VERT. 1" =5'

NOTES

1. ALL ELEVATIONS BY TRIAD FOR REFERENCE, THE LIBERTY CREEK MAIN SEEP ELEVATION IS 611.23 (msl).
2. VERTICAL EXAGGERATION 2X.

LEGEND

- WATER/PRODUCT FLOW
- OVERBURDEN
- WEATHERED BEDROCK
- COMPETENT BEDROCK

FIGURE 4
CROSS SECTION OF
INTERCEPTOR TRENCH

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: 1"=100' | DR DWF | CHK CMS | REV TDH

PREPARED BY:
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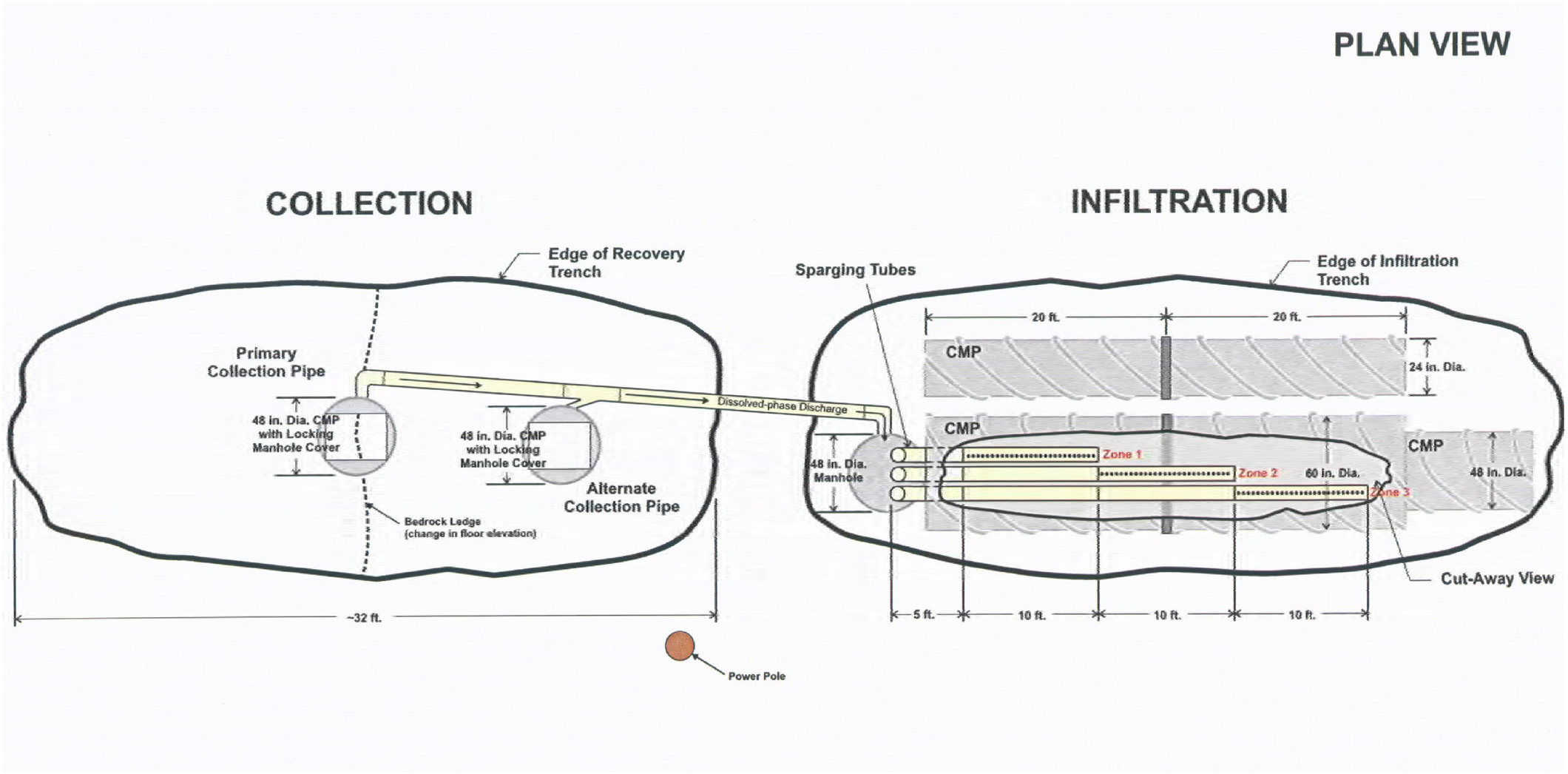
PROJ: 07-ELM01-01 | DATE: 02/20/13 | SHEET 1 OF 1

07-ELM01-01-FIG-4-CROSS-SECTION-OF-INTERCEPTOR-TRENCH-2013-CAP.DWG



NOTE
ADAPTED FROM DRAWING BY ENVIRONMENTAL MANAGEMENT AND ENGINEERING INC.

FIGURE 5
SCHEMATIC OF SUMP/
INFILTRATION GALLERY SYSTEM

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: NTS	DR DWF	CHK CMS	REV TDH

PREPARED BY:
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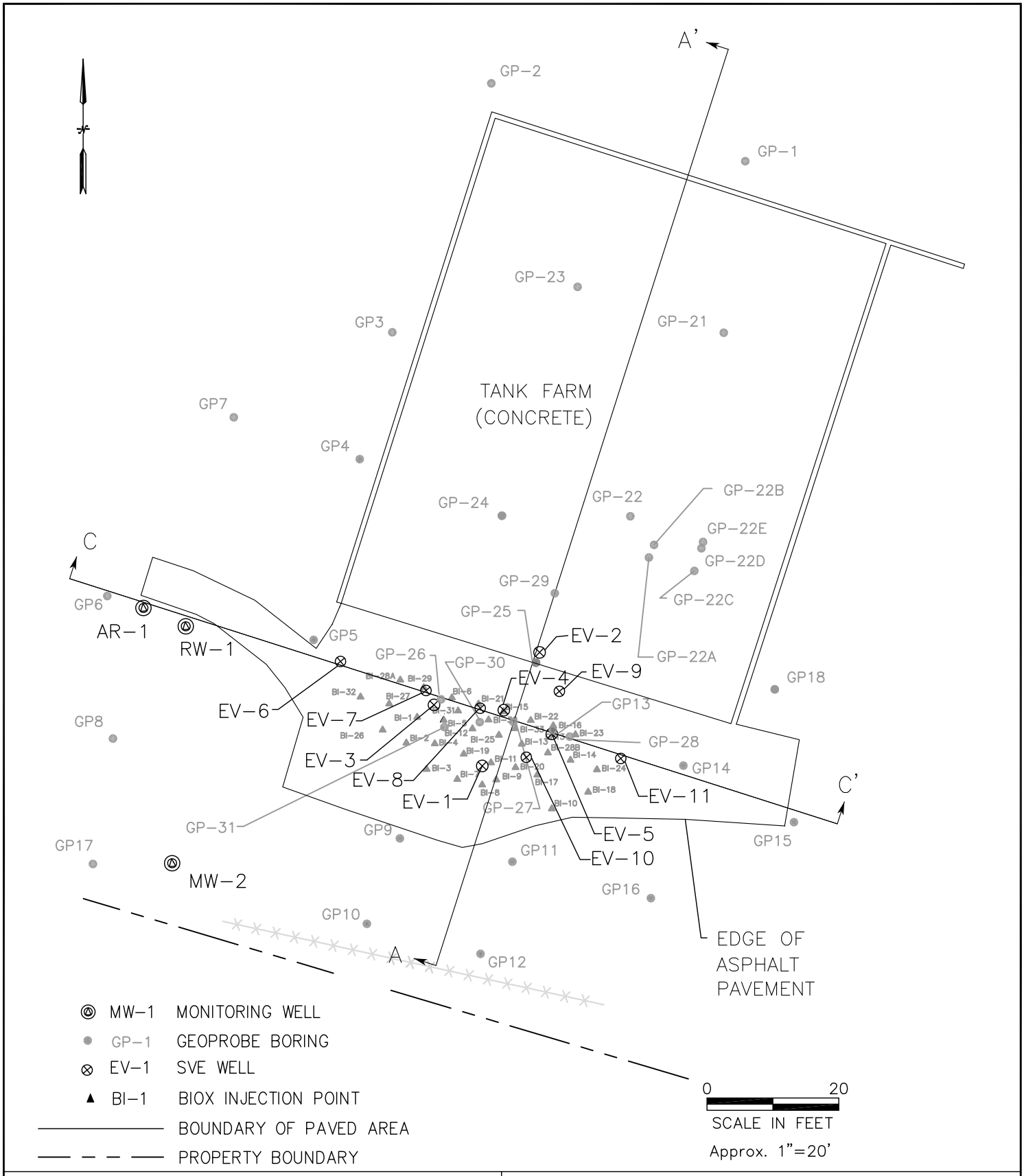
PROJ: 07-ELM01-01	DATE: 02/20/13	SHEET 1 OF 1

07-ELM01-01-FIG-5-SCHEMATIC-OF-SUMP-INFILTRATION-GALLERY-SYSTEM-2013-CAP.DWG



PREPARED BY:

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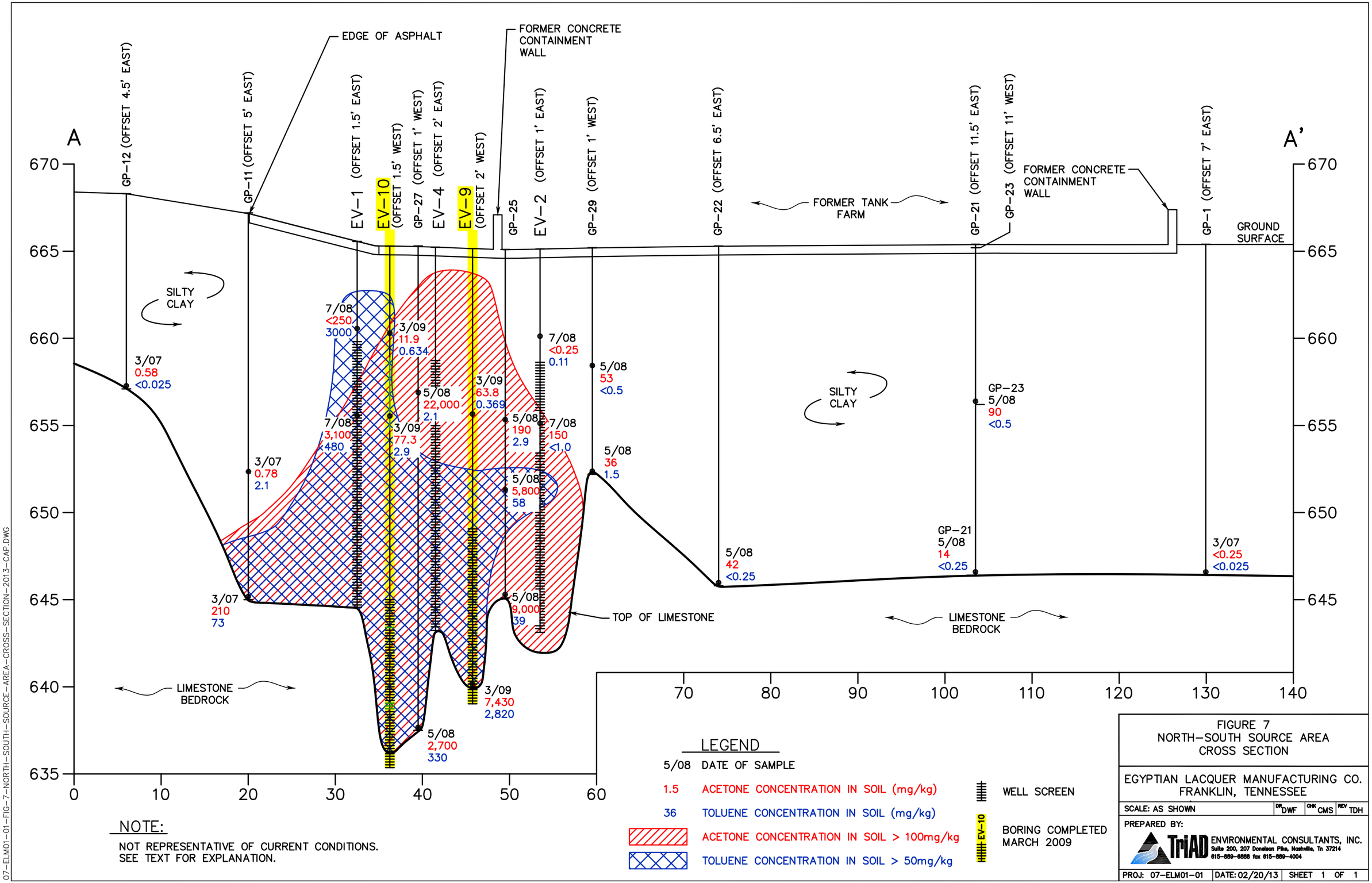
615-889-6888 fax 615-889-4004

FIGURE 6: SOURCE AREA PLAN VIEW WITH BORING/WELL LOCATIONS

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SOURCE-VIEW-WITH-BORING-WELL-LOCATIONS-2012-CPA.DWG	PROJECT NO.: 07-ELM01-01
DATE: 11/14/12	SHEET 1 OF 1



NOTE:

NOT REPRESENTATIVE OF CURRENT CONDITIONS.
SEE TEXT FOR EXPLANATION.

LEGEND

5/08 DATE OF SAMPLE

1.5 ACETONE CONCENTRATION IN SOIL (mg/kg)

36 TOLUENE CONCENTRATION IN SOIL (mg/kg)

ACETONE CONCENTRATION IN SOIL > 100mg/kg

TOLUENE CONCENTRATION IN SOIL > 50mg/kg

WELL SCREEN

EV-10 BORING COMPLETED MARCH 2009

FIGURE 7
NORTH-SOUTH SOURCE AREA
CROSS SECTION

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: AS SHOWN | DR DWF | CHK CMS | REV TDH

PREPARED BY:

TriAD ENVIRONMENTAL CONSULTANTS, INC.
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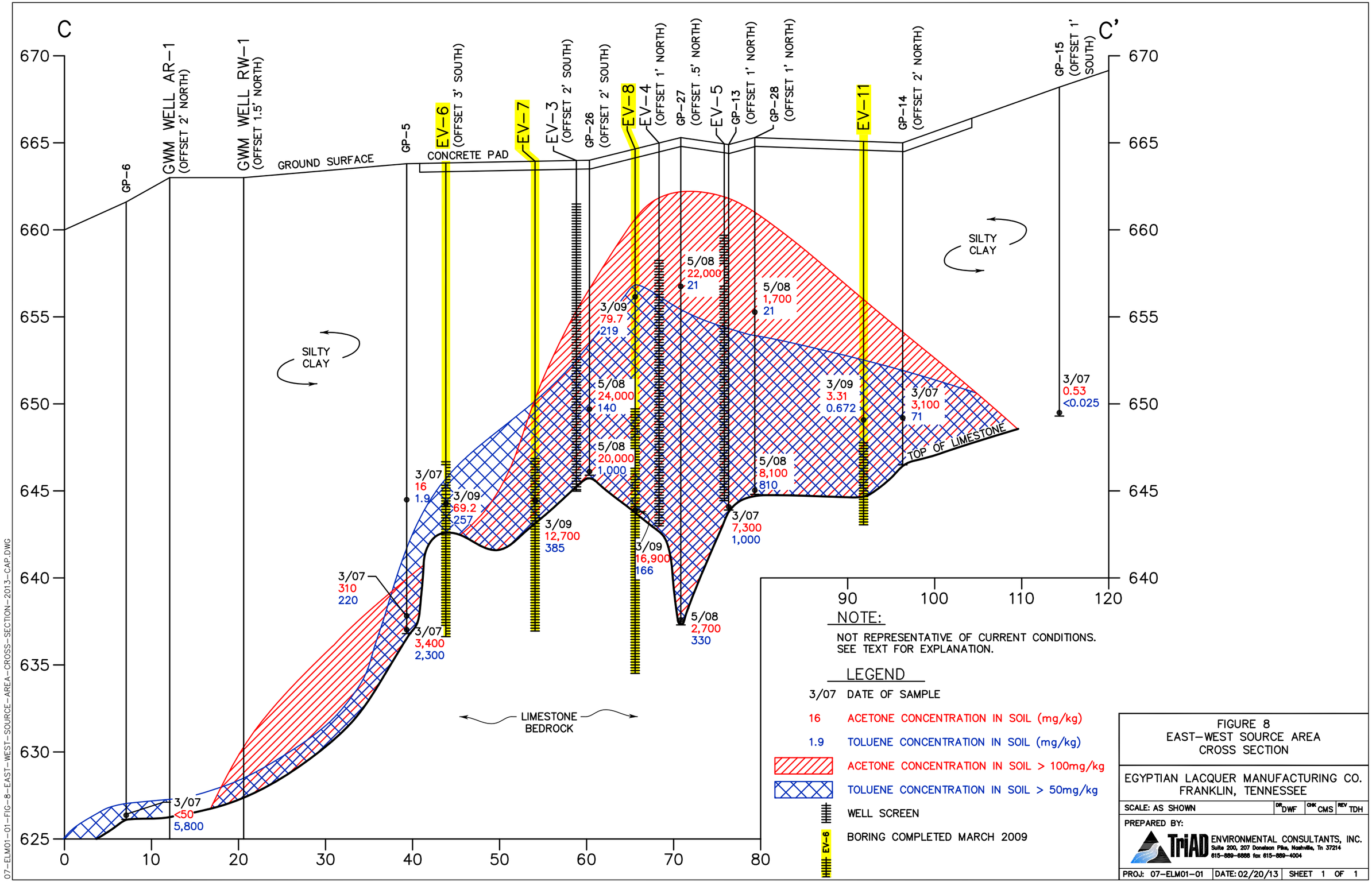
PROJ: 07-ELM01-01 | DATE: 02/20/13 | SHEET 1 OF 1

07-ELM01-01-FIG-7-NORTH-SOUTH-SOURCE-AREA-CROSS-SECTION-2013-CAP.DWG


C
C'
670
665
660
655
650
645
640
635
630
625
0
10
20
30
40
50
60
70
80
90
100
110
120
GP-6
GWM WELL AR-1 (OFFSET 2' NORTH)
GWM WELL RW-1 (OFFSET 1.5' NORTH)
GROUND SURFACE
GP-5
EV-6 (OFFSET 3' SOUTH)
CONCRETE PAD
EV-7
EV-3 (OFFSET 2' SOUTH)
GP-26 (OFFSET 2' SOUTH)
EV-8
EV-4 (OFFSET 1' NORTH)
GP-27 (OFFSET .5' NORTH)
EV-5
GP-13 (OFFSET 1' NORTH)
GP-28 (OFFSET 1' NORTH)
EV-11
GP-14 (OFFSET 2' NORTH)
GP-15 (OFFSET 1' SOUTH)
SILTY CLAY
SILTY CLAY
TOP OF LIMESTONE
LIMESTONE BEDROCK
3/07 <50 5,800
3/07 310 220
3/07 16 1.9
3/07 3,400 2,300
3/09 69.2 257
3/09 12,700 385
5/08 24,000 140
5/08 20,000 1,000
3/09 79.7 219
5/08 22,000 21
3/09 16,900 166
5/08 2,700 330
5/08 1,700 21
5/08 8,100 810
3/07 7,300 1,000
3/09 3.31 0.672
3/07 3,100 71
3/07 0.53 <0.025
NOTE:
NOT REPRESENTATIVE OF CURRENT CONDITIONS.
SEE TEXT FOR EXPLANATION.
LEGEND
3/07 DATE OF SAMPLE
16 ACETONE CONCENTRATION IN SOIL (mg/kg)
1.9 TOLUENE CONCENTRATION IN SOIL (mg/kg)
ACETONE CONCENTRATION IN SOIL > 100mg/kg
TOLUENE CONCENTRATION IN SOIL > 50mg/kg
WELL SCREEN
EV-6 BORING COMPLETED MARCH 2009
FIGURE 8
EAST-WEST SOURCE AREA
CROSS SECTION
EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE
SCALE: AS SHOWN
DR DWF
CHK CMS
REV TDH
PREPARED BY:
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615-889-6888 fax 615-889-4004
PROJ: 07-ELM01-01
DATE: 02/20/13
SHEET 1 OF 1
07-ELM01-01-FIG-8-EAST-WEST-SOURCE-AREA-CROSS-SECTION-2013-CAP.DWG

N

0 50 100
SCALE IN FEET (APPROXIMATE)

NOTE

BASE MAP ADAPTED FROM AERIAL PHOTOGRAPH NOT VERIFIED BY SURVEY.

LEGEND

- MONITORING WELL
- ABDN ABANDONED
- SEEP
- MANHOLE
- STRUCTURE
- VEGETATION
- SANITARY SEWER
- PROPERTY LINE (APPROXIMATE)
- 615 POTENTIOMETRIC CONTOUR
- CONCRETE FORD
- MW-2 623.77 0.00197 <0.050 0.0166 — SAMPLING POINT SHOWING WATER LEVEL ELEVATION AND TOLUENE, ACETONE, AND BENZENE CONCENTRATIONS. DATA COLLECTED SEPTEMBER 5. 2012, UNLESS OTHERWISE NOTED.
- TOLUENE 1.0 mg/L — EXTENT OF TOLUENE IN GROUNDWATER DEFINED TO TENNESSEE GENERAL USE
- BENZENE 0.005 mg/L — EXTENT OF BENZENE IN GROUNDWATER DEFINED TO TENNESSEE GENERAL USE CRITERIA OF 0.005 mg/L.

CONSTITUENT EXTENT ESTIMATED USING MEASURED CONCENTRATIONS AND KNOWN GEOLOGIC STRUCTURE.

- NS NOT SAMPLED
- RL REPORTING LIMIT HIGH DUE TO SAMPLE MATRIX INTERFERENCE
- (16.9) AVERAGE CONCENTRATION OVER LAST FOUR EVENTS, COUNTING NON-DETECT AS 1/2 REPORTING LIMIT

RW-1 DATA FROM AQUAETER, INC.

FIGURE 9: SOLVENT CONSTITUENT DISTRIBUTION AND POTENTIOMETRIC MAP MARCH 2015

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: AS SHOWN	DR DWF	CHK WWN	REV TDH

PREPARED BY:

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615-889-6888 fax 615-889-4004

PROJ: 07-ELM01-01	DATE: 05/07/15	SHEET 1 OF 1

07-ELM01-01-FIG-9-SOLVENT-CONSTITUENT-MARCH-2015-CAP.DWG

N

0 50 100
SCALE IN FEET
(APPROXIMATE)

NOTE

BASE MAP ADAPTED FROM AERIAL PHOTOGRAPH NOT VERIFIED BY SURVEY.

LEGEND

- MONITORING WELL
- SEEP
- MANHOLE
- STRUCTURE
- VEGETATION
- SANITARY SEWER
- PROPERTY LINE (APPROXIMATE)
- CONCRETE FORD
- MW-2 0.0137 <0.050 0.0465 — SAMPLING POINT SHOWING TOLUENE, ACETONE, AND BENZENE CONCENTRATIONS. DATA COLLECTED FEBRUARY 2008.
- TOLUENE 1.0 mg/L — EXTENT OF TOLUENE IN GROUNDWATER DEFINED TO TENNESSEE GENERAL USE CRITERIA OF 1.0 mg/L.
- ACETONE 22.0 mg/L — EXTENT OF ACETONE IN GROUNDWATER DEFINED TO U.S. EPA REGIONAL SCREENING LEVEL FOR TAP WATER OF 22.0 mg/L.
- BENZENE 0.005 mg/L — EXTENT OF BENZENE IN GROUNDWATER DEFINED TO TENNESSEE GENERAL USE CRITERIA OF 0.005 mg/L.

CONSTITUENT EXTENT ESTIMATED USING MEASURED CONCENTRATIONS AND KNOWN GEOLOGIC STRUCTURE.

NS NOT SAMPLED

RL REPORTING LIMIT HIGH DUE TO SAMPLE MATRIX INTERFERENCE

(21.5) AVERAGE CONCENTRATION OVER LAST YEAR, COUNTING NON-DETECT AS 1/2 REPORTING LIMIT

FIGURE 10
SOLVENT CONSTITUENT DISTRIBUTION
FEBRUARY 2008

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: AS SHOWN	DR DWF	CHK CMS	REV TDH

PREPARED BY:

TriAD ENVIRONMENTAL CONSULTANTS, INC.
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615-889-6888 fax 615-889-4004

PROJ: 07-ELM01-01	DATE: 02/20/13	SHEET 1 OF 1

07-ELM01-01-FIG-10-SOLVENT-CONSTITUENT-FEB-08-2013-CAP.DWG

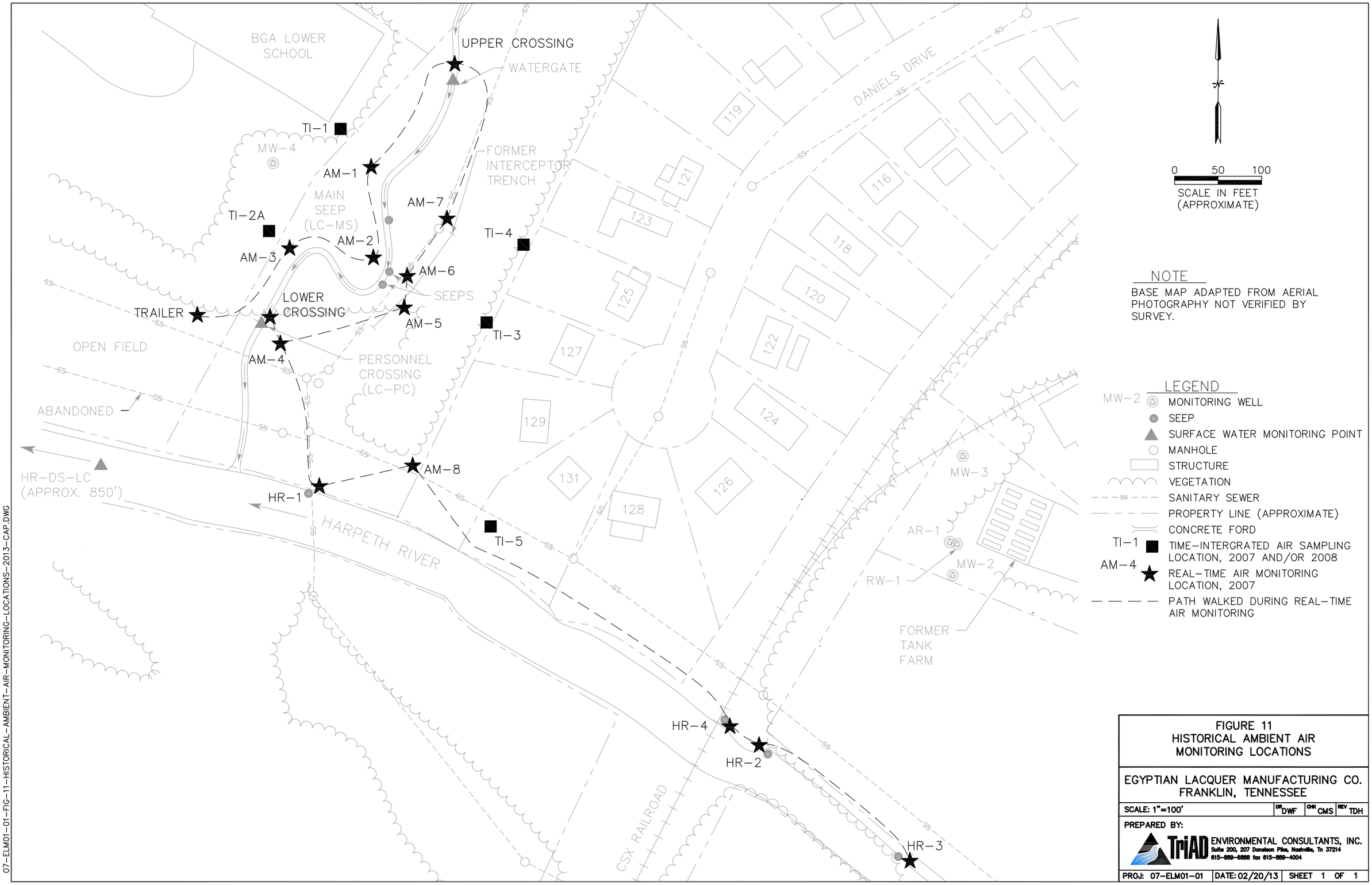

FIGURE 11
HISTORICAL AMBIENT AIR MONITORING LOCATIONS

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: 1"=100' | DR DWF | CHK CMS | REV TDH

PREPARED BY:
TriAD ENVIRONMENTAL CONSULTANTS, INC.
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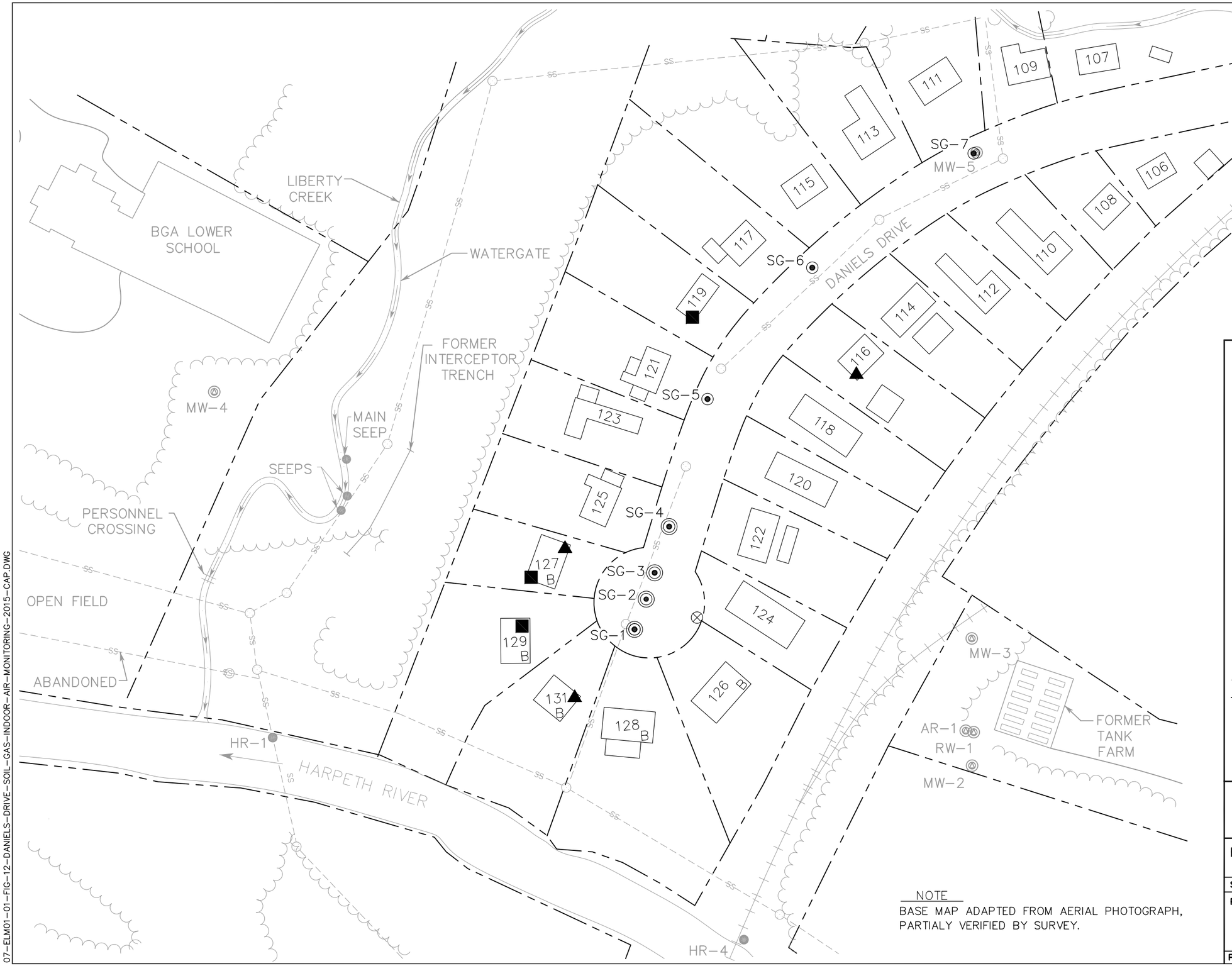
PROJ: 07-ELM01-01 | DATE: 02/20/13 | SHEET 1 OF 1

07-ELM01-01-FIG-11-HISTORICAL-AMBIENT-AIR-MONITORING-LOCATIONS-2013-CAP.DWG



LEGEND

- SOIL GAS MONITORING LOCATION–JANUARY 2009 (PROBE DEPTH 3 FEET)
- SOIL GAS MONITORING LOCATION–JANUARY 2009 (PROBE DEPTH 10 FEET AND 3 FEET)
- SOIL GAS MONITORING POINT–MAY 2013 TO APRIL 2014 (PROBE DEPTH 6 FEET)
- INDOOR AIR MONITORING POINT–APRIL 2007
- INDOOR AIR MONITORING POINT–JANUARY 2010
- MONITORING WELL
- SEEP
- MANHOLE
- 119 STRUCTURE WITH CRAWLSPACE
- 129 B STRUCTURE WITH BASEMENT
- VEGETATION
- SANITARY SEWER
- PROPERTY LINE (APPROXIMATE)

0 50 100
SCALE IN FEET (APPROXIMATE)

NOTE
BASE MAP ADAPTED FROM AERIAL PHOTOGRAPH, PARTIALY VERIFIED BY SURVEY.

FIGURE 12
DANIELS DRIVE SOIL–GAS/INDOOR AIR MONITORING

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: 1"=100' | DR DWF | CHK CMS | REV TDH

PREPARED BY:
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PROJ: 07-ELM01-01 | DATE: 05/07/15 | SHEET 1 OF 1

07-ELM01-01-FIG-12-DANIELS-DRIVE-SOIL-GAS-INDOOR-AIR-MONITORING-2015-CAP.DWG

N

0 50 100
SCALE IN FEET
(APPROXIMATE)

NOTE

BASE MAP ADAPTED FROM AERIAL PHOTOGRAPH NOT VERIFIED BY SURVEY.

LEGEND

- MW-2 ◎ MONITORING WELL
- ● SEEP
- ▲ SURFACE WATER MONITORING POINT
- ○ MANHOLE
- STRUCTURE
- VEGETATION
- SANITARY SEWER
- PROPERTY LINE (APPROXIMATE)
- CONCRETE FORD

FIGURE 13
PROPOSED LONG-TERM
MONITORING LOCATIONS

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: AS SHOWN	DR DWF	CHK CMS	REV TDH

PREPARED BY:

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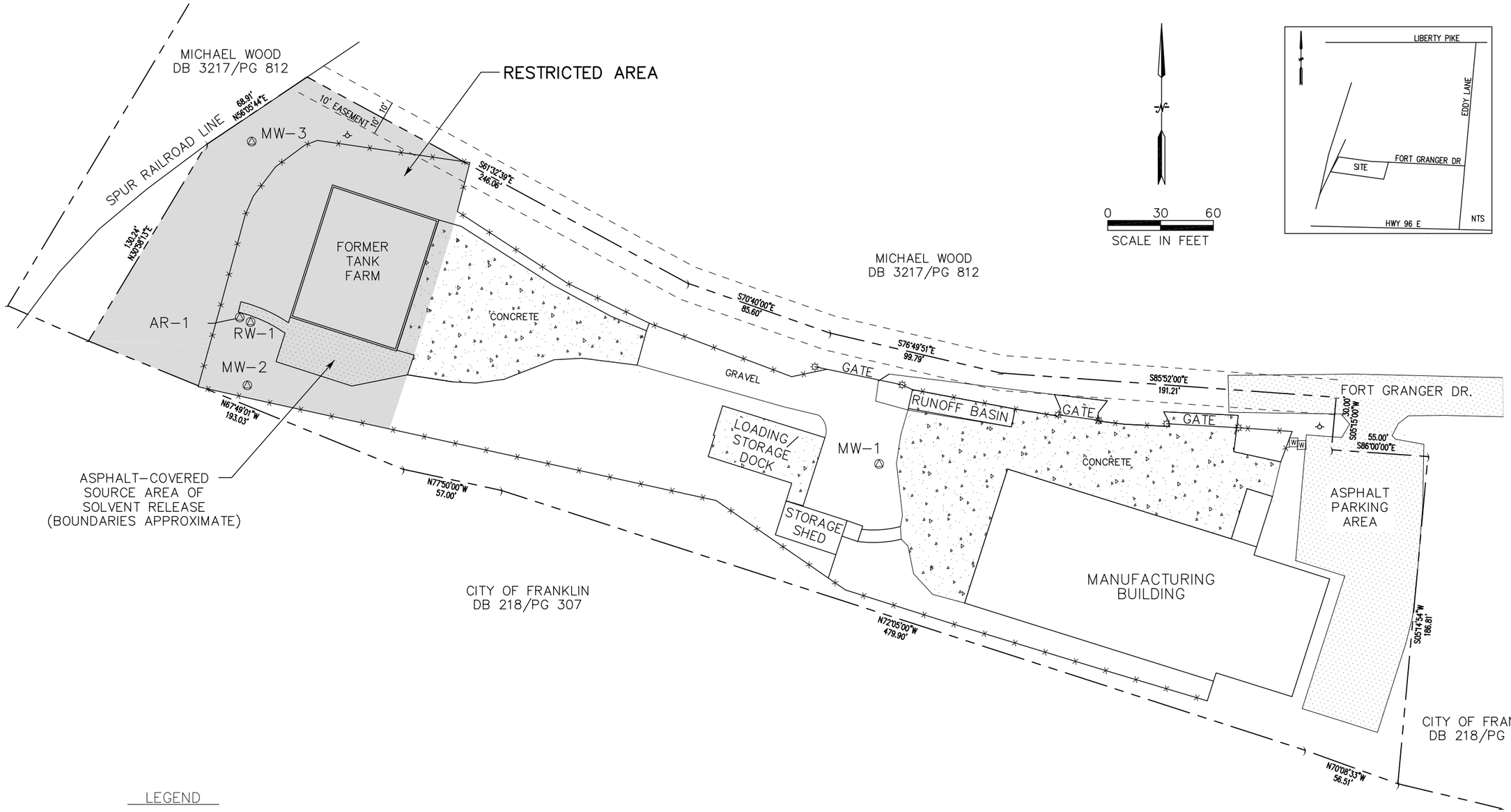
PROJ: 07-ELM01-01	DATE: 05/07/15	SHEET 1 OF 1

07-ELM01-01-FIG-13-PROPOSED-LONG-TERM-MONITORING-LOCATIONS-2015-CAP.DWG



LEGEND

- FIRE HYDRANT
- WATER METER
- COURTESY LIGHT
- MONITORING WELL
- FENCE
- PROPERTY BOUNDARY

NOTES

1. TRACT COMPRISES 2.82 ACRES.
2. THIS DRAWING WAS ADAPTED FROM A BOUNDARY SURVEY PLAT PREPARED BY ARROWHEAD SURVEY AND DATED 04/03/07.

FIGURE 14
SITE PLAN SHOWING
LAND USE RESTRICTED AREA

EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

SCALE: 1"=60' | DR DWF | CHK CMS | REV TDH

PREPARED BY:

TriAD ENVIRONMENTAL CONSULTANTS, INC.
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PROJ: 07-ELM01-01 | DATE: 02/20/13 | SHEET 1 OF 1

07-ELM01-01-FIG-14-SITE-PLAN-SHOWING-LAND-USE-RESTRICTED-AREA-2013-CAP.DWG

Tables

TABLE 1
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-1 [3]														
Volatiles		**4/18/2007 [4]**	**9/19/2007 [4]**	**2/21/2008**	**3/12/2008**	**6/3/2008**	**9/9/2008**	**12/17/2008**	**3/24/2009**	**6/9/2009**	**9/2/2009**	**12/9/2009**	**3/24/2010**	**6/16/2010**	**9/21/2010**	**12/21/2010**
Acetone	14 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	NS
Benzene	0.005 [1]	<0.0010	<0.0010	**0.0086**	**0.0040**	**0.011**	**0.0109**	**0.00450**	**0.00360**	**0.00753**	**0.00443**	**0.00386**	**0.00392**	NS	**0.00545**	NS
Carbon Disulfide	0.81 [2]	NR	NR	NR	NR	NR	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Di-isopropyl ether	0.150 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Ethylbenzene	0.7 [1]	<0.0010	<0.0010	**0.0038**	**0.0030**	**0.010**	**0.0150**	**0.00475**	**0.00403**	**0.00572**	**0.00413**	**0.00343**	**0.00378**	NS	**0.00381**	NS
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	<0.0010	**0.0047**	<0.0010	**0.0025**	**0.00329**	<0.0010	**0.0010**	**0.00123**	**0.00115**	<0.0010	**0.00108**	NS	**0.00144**	NS
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	NS
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	<0.010	NS
n-propylbenzene	0.66 [2]	<0.0010	<0.0010	**0.0038**	<0.0010	**0.0013**	**0.00192**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	**0.00103**	NS
Toluene	1 [1]	<0.0050	<0.0050	<0.0050	<0.0050	**0.0064**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Xylenes	10 [1]	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	**0.00343**	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NS	<0.0030	NS
1,2,3-Trimethylbenzene	0.010 [2]	<0.0010	<0.0010	**0.0012**	<0.0010	**0.0024**	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	<0.0010	**0.0050**	<0.0010	**0.0033**	**0.00361**	**0.00114**	**0.00106**	**0.00136**	**0.00130**	<0.0010	**0.00120**	NS	<0.0010	NS
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Semi-volatiles																
1-Methylnaphthalene	0.0011 [2]	NA	**0.00018**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS
2-Methylnaphthalene	0.036 [2]	NA	**0.00019**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Samples collected by bailer.

TABLE 1
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-1 [3]												
Volatiles		**3/24/2011**	**6/9/2011**	**9/13/2011**	**12/13/2011**	**3/21/2012**	**6/14/2012**	**9/5/2012**	**12/13/2012**	**3/26/2013**	**9/17/2013**	**3/20/2014**	**9/22/2014**	**3/30/2015**
Acetone	14 [2]	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	<0.0050	<0.025	<0.025	<0.025
Benzene	0.005 [1]	**0.00382**	NS	**0.0150**	NS	**0.0203**	NS	**0.00272**	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.81 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	**0.00148**
Di-isopropyl ether	0.150 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.45 [2]	**0.00109**	NS	**0.00295**	NS	**0.00409**	NS	<0.0010	NS	**0.00128**	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	<0.0050	<0.0050	<0.010	<0.010
n-propylbenzene	0.66 [2]	<0.0010	NS	**0.00188**	NS	**0.00266**	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 [1]	<0.0030	NS	<0.0030	NS	<0.0030	NS	<0.0030	NS	<0.0030	<0.0020	<0.0030	<0.0020	<0.0020
1,2,3-Trimethylbenzene	0.010 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles														
1-Methylnaphthalene	0.0011 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Samples collected by bailer.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-2 [3]													
Volatiles		**6/20/2007 [4]**	**9/19/2007**	**2/21/2008**	**6/3/2008**	**9/10/2008**	**12/18/2008**	**3/25/2009 [5]**	**6/10/2009**	**9/3/2009 [6]**	**12/10/2009**	**3/25/2010 [7]**	**6/16/2010**	**9/21/2010 [8]**	**12/21/2010**
Acetone	14 [2]	**360**	**100**	**0.059**	<0.050	<0.050	**0.860**	<0.050	**1.640**	<0.050	**1.510**	<0.050	NS	<0.050	NS
Benzene	0.005 [1]	<0.25	<0.10	**0.046**	**0.052**	**0.0623**	**0.0515**	**0.059**	**0.0107**	**0.0465**	**0.00821**	**0.0158**	NS	**0.0143**	NS
Carbon Disulfide	0.81 [2]	NR	NR	NR	NR	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Di-isopropyl ether	0.150 [2]	<0.25	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,4-Dichlorobenzene	0.075 [1]	<0.25	<0.10	<0.0010	<0.0010	**0.00305**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Ethylbenzene	0.7 [1]	<0.25	<0.10	**0.026**	**0.022**	**0.0255**	**0.0488**	**0.0406**	**0.0114**	**0.0283**	**0.00958**	**0.0180**	NS	**0.0130**	NS
Isopropylbenzene(cumene)	0.45 [2]	<0.25	<0.10	**0.0064**	**0.0039**	**0.00276**	**0.00568**	**0.00799**	**0.00222**	**0.00525**	**0.00199**	**0.00412**	NS	**0.00341**	NS
Methyl Ethyl Ketone (MEK)	5.6 [2]	<2.5	<1.0	< 0.010	< 0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	NS
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<2.5	<1.0	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	<0.010	NS
n-propylbenzene	0.66 [2]	<0.25	<0.10	**0.0045**	**0.0015**	<0.0010	**0.00425**	**0.00471**	**0.00176**	**0.00339**	**0.00135**	**0.00279**	NS	**0.00228**	NS
Toluene	1 [1]	<1.2	<0.50	**0.78**	<0.0050	**0.00101**	**2.000**	**0.00105**	**0.00493**	**0.0137**	<0.0010	<0.0010	NS	<0.0010	NS
Xylenes	10 [1]	<0.75	<0.30	**0.022**	**0.013**	**0.00997**	**0.0727**	**0.0292**	**0.00549**	**0.0197**	**0.00532**	**0.0108**	NS	**0.00717**	NS
1,2,3-Trimethylbenzene	0.010 [2]	<0.25	<0.10	**0.0081**	**0.0057**	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,2,4-Trimethylbenzene	0.015 [2]	<0.25	<0.10	**0.0071**	**0.0052**	**0.00345**	**0.0124**	**0.0142**	**0.00468**	**0.00946**	**0.00389**	**0.00732**	NS	**0.00601**	NS
1,3,5-Trimethylbenzene	0.120 [2]	<0.25	<0.10	**0.0058**	<0.0010	<0.0010	**0.00236**	**0.00223**	<0.0010	**0.00146**	<0.0010	**0.00125**	NS	**0.00103**	NS
Semi-volatiles															
1-Methylnaphthalene	0.0011 [2]	NA	**0.00012**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS
2-Methylnaphthalene	0.036 [2]	NA	**0.00012**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled
Bold - Detected at concentration above laboratory detection limit Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Sample collected with bailer
[5] Sample also contained sec-Butylbenzene at 0.00113 mg/L (no TGC or RSL) and Naphthalene at 0.00564 mg/L (exceeding RSL of 0.00017 mg/L but less than TDUST risk-based standard for drinking water).
[6] Sample also contained chloromethane at 0.00799 mg/L (less than RSL of 0.190 mg/L) and p-isopropyltoluene at 0.00134 mg/L (no RSL or TGC).
[7] Sample also contained trans-1,3-dichloropropene at 0.00535 mg/L (less than RSL of 0.040 mg/L).
[8] Sample also contained trans-1,3-dichloropropene at 0.00408 mg/L (less than RSL of 0.040 mg/L).

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-2 [3] (Cont'd)												
Volatiles		**3/23/2011**	**6/9/2011**	**9/13/2011**	**12/13/2011**	**3/21/2012**	**6/14/2012**	**9/6/2012**	**12/13/2012**	**3/26/2013**	**9/17/2013**	**3/20/2014**	**9/23/2014**	**3/30/2015 [9]**
Acetone	14 [2]	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	**0.413**	<0.0050	**1.820**	**2.020**	<0.025
Benzene	0.005 [1]	**0.0168**	NS	**0.0109**	NS	**0.0144**	NS	**0.0166**	NS	**0.00764**	**0.0156**	**0.00544**	**0.0124**	**0.0088**
Carbon Disulfide	0.81 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	0.150 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 [1]	**0.00883**	NS	**0.00131**	NS	<0.0010	NS	<0.0010	NS	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.45 [2]	**0.00528**	NS	**0.00366**	NS	**0.00247**	NS	**0.00474**	NS	**0.00268**	**0.00456**	**0.00177**	**0.00209**	<0.0010
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	<0.0050	<0.010	<0.010	<0.010
n-propylbenzene	0.66 [2]	**0.00294**	NS	**0.00251**	NS	**0.00159**	NS	**0.00281**	NS	**0.00179**	**0.00316**	**0.00115**	**0.00152**	<0.0010
Toluene	1 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	**0.00197**	NS	<0.0010	<0.0010	<0.0010	**0.0500**	**0.00559**
Xylenes	10 [1]	**0.00599**	NS	**0.00531**	NS	**0.00387**	NS	**0.0488**	NS	<0.0030	**0.00520**	<0.0030	**0.00252**	<0.0050
1,2,3-Trimethylbenzene	0.010 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	**0.00981**	NS	**0.00677**	NS	**0.00432**	NS	**0.00764**	NS	**0.00526**	**0.00858**	**0.00283**	**0.00220**	<0.0010
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	**0.00111**	NS	<0.0010	**0.00124**	<0.0010	<0.0010	<0.0010
Semi-volatiles														
1-Methylnaphthalene	0.0011 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled
Bold - Detected at concentration above laboratory detection limit Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-3 [3]													
Volatiles		**10/1/2007**	**2/21/2008**	**6/3/2008**	**9/9/2008**	**12/18/2008 [9]**	**3/25/2009 [10]**	**6/10/2009**	**7/2/2009 [11]**	**9/3/2009 [12]**	**12/9/2009 [13]**	**3/25/2010 [14]**	**6/16/2010**	**9/22/2010 [15]**	**12/21/2010**
Acetone	14 [2]	<25	NS	<2.5	NS	<50	**2.770 [E]**	<25	<25	<500 [RL1]	**8.850**	**9.79 [E]**	NS	**8.740 [E]**	NS
Benzene	0.005 [1]	<0.50	NS	<0.050	NS	**0.0303**	**0.0309**	**0.0311**	<0.500	**0.0242**	**0.0258**	**0.0245**	NS	**0.0300**	NS
Carbon Disulfide	0.81 [2]	NR	NS	NR	NS	**0.00148**	**0.00187**	**0.00237**	<0.500	<0.0010	**0.00122**	<0.0010	NS	<0.0010	NS
Di-isopropyl ether	0.150 [2]	<0.50	NS	<0.050	NS	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,4-Dichlorobenzene	0.075 [1]	<0.50	NS	<0.050	NS	<0.0010	<0.0010	<0.0010	<0.500	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Ethylbenzene	0.7 [1]	<0.50	NS	**0.13**	NS	**0.152**	**0.211**	**0.124**	<0.500	<0.0010	**0.192**	**0.126**	NS	**0.00397**	NS
Isopropylbenzene(cumene)	0.45 [2]	<0.50	NS	<0.050	NS	<0.0010	**0.00116**	**0.00120**	<0.500	<0.0010	**0.00136**	**0.00148**	NS	<0.0010	NS
Methyl Ethyl Ketone (MEK)	5.6 [2]	<5.0	NS	**0.87**	NS	**0.815**	**1.23 [E]**	<25	<25	<500 [RL1]	**2.330 [E]**	**1.140 [E]**	NS	**1.970 [E]**	NS
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<5.0	NS	**1.0**	NS	<0.010	**0.402**	<0.010	<5.0	**0.279**	**0.228**	**0.924 [E]**	NS	**0.251**	NS
n-propylbenzene	0.66 [2]	<0.50	NS	<0.050	NS	<0.0010	<0.0010	**0.00242**	<0.500	<0.0010	**0.00167**	**0.00169**	NS	<0.0010	NS
Toluene	1 [1]	**650**	NS	**200**	NS	**583**	**550**	**441**	**550**	**561**	**584 [B1]**	**387**	NS	**426**	NS
Xylenes	10 [1]	<1.5	NS	**0.52**	NS	**0.544**	**0.941**	**0.424**	<1.5	<0.0030	**0.989**	**0.676 [E]**	NS	<0.0030	NS
1,2,3-Trimethylbenzene	0.010 [2]	<0.50	NS	<0.050	NS	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,2,4-Trimethylbenzene	0.015 [2]	<0.50	NS	<0.050	NS	**0.00625**	**0.00761**	**0.00615**	<0.500	**0.00964**	**0.00951**	**0.00978**	NS	**0.0145**	NS
1,3,5-Trimethylbenzene	0.120 [2]	<0.50	NS	<0.050	NS	**0.00229**	**0.00200**	**0.00630**	<0.500	**0.0102**	**0.00261**	**0.00286**	NS	**0.00756**	NS
Semi-volatiles															
1-Methylnaphthalene	0.0011 [2]	<0.00010	NS	NA	NS	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS
2-Methylnaphthalene	0.036 [2]	**0.00016**	NS	NA	NS	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled due to free product or sampling schedule
Bold - Detected at concentration above laboratory detection limit Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[9] Sample also contained methlyene chloride at a concentration of 0.0139 mg/L (exceeding the general use criteria of 0.005 mg/L)
[10] Sample also contained 1,1-Dichloroethane at 0.00208 mg/L (less than the RSL of 0.0024 mg/L) and methlyene chloride at 0.0118 mg/L (exceeding the TGC of 0.005 mg/L).
[11] Sample collected after vacuum extraction event performed June 18, 2009
[12] Sample also contained methylene chloride at 0.00909 mg/L (exceeding the TGC of 0.005 mg/L).
[13] Sample also contained 1,1-dichloroethane at 0.00153 mg/L (less than the RSL of 0.0024 mg/L).
[14] Sample also contained methlyene chloride at 0.0133 mg/L (exceeding the TGC of 0.005 mg/L)
[15] Sample also contained n-butylbenzene at 0.0155 mg/L (no TGC or RSL) and naphthalene at 0.00621 mg/L (exceeding RSL of 0.00014 mg/L but less than TDUST risk-based standard for drinking water)
[RL1] Reporting limit raised due to sample matrix effects.
[E] Semi-quantitative result - concentration exceeds the calibration range
[B1] Analyte was detected in the method blank. Concentration in sample is greater than 10x that found in method blank.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-3 [3] (Cont'd)													
Volatiles		**3/24/2011 [RL1]**	**6/9/2011**	**9/13/2011**	**12/13/2011**	**3/21/2012 [16]**	**6/14/2012**	**9/6/2012 [17]**	**12/13/2012**	**3/27/2013 [RL1]**	**9/18/2013 [RL1]**	**10/22/2013 [18]**	**3/21/2014**	**9/22/2014 [RL1]**	**3/30/2015 [RL1]**
Acetone	14 [2]	<50.00	NS	<25	NS	**5.150 [E]**	NS	<50.00	NS	**5.020**	**649**	**1.920 [E]**	<25	**4.790**	<50.00
Benzene	0.005 [1]	<1.00	NS	<0.500	NS	**0.0274**	NS	**0.0283**	NS	<0.100	<5.000	**0.0159**	**0.0186**	<0.100	<2.00
Carbon Disulfide	0.81 [2]	<1.00	NS	<0.500	NS	<0.0010	NS	**0.00138**	NS	<0.100	<5.000	**0.00205**	**0.00166**	<0.100	<2.00
Di-isopropyl ether	0.150 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<1.00	NS	<0.500	NS	<0.0010	NS	<0.0010	NS	<0.100	<5.000	<0.0010	<0.0010	<0.100	<2.00
Ethylbenzene	0.7 [1]	<1.00	NS	<0.500	NS	<1.00	NS	**0.141**	NS	**0.226**	<5.000	**0.179**	**0.198**	**0.219**	<2.00
Isopropylbenzene(cumene)	0.45 [2]	<1.00	NS	<0.500	NS	<1.00	NS	**0.00353**	NS	<0.100	<5.000	**0.00344**	**0.00296**	<0.100	<2.00
Methyl Ethyl Ketone (MEK)	5.6 [2]	<50.00	NS	<25	NS	**2.190 [E]**	NS	<50.00	NS	<5.000	<250.000	**0.476**	**0.943**	<5.000	<50.00
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<10.00	NS	<5.0	NS	<5.0	NS	**0.491**	NS	<1.000	<25.000	**0.0746**	**0.295**	<1.000	<50.00
n-propylbenzene	0.66 [2]	<1.00	NS	<0.500	NS	**0.00162**	NS	**0.00513**	NS	<0.100	<5.000	**0.00357**	**0.00298**	<0.100	<2.00
Toluene	1 [1]	**552**	NS	**527**	NS	**576**	NS	**430**	NS	**134**	**484**	**425**	**339**	**437**	**300**
Xylenes	10 [1]	<3.00	NS	**1.640**	NS	<3.00	NS	<3.00	NS	**1.010**	<10.000	**1.190**	<3.00	**1.030**	<10.00
1,2,3-Trimethylbenzene	0.010 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	<1.00	NS	<0.500	NS	**0.0127**	NS	**0.0172**	NS	<0.100	<5.000	**0.0175**	**0.0150**	<0.100	<2.00
1,3,5-Trimethylbenzene	0.120 [2]	<1.00	NS	<0.500	NS	**0.00965**	NS	**0.00458**	NS	<0.100	<5.000	**0.00471**	**0.00428**	<0.100	<2.00
Semi-volatiles															
1-Methylnaphthalene	0.0011 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NA	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled due to free product or sampling schedule
Bold - Detected at concentration above laboratory detection limit Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[9] Sample also contained methlyene chloride at a concentration of 0.0139 mg/L (exceeding the general use criteria of 0.005 mg/L)
[10] Sample also contained 1,1-Dichloroethane at 0.00208 mg/L (less than the RSL of 0.0024 mg/L) and methlyene chloride at 0.0118 mg/L (exceeding the TGC of 0.005 mg/L).
[11] Sample collected after vacuum extraction event performed June 18, 2009
[12] Sample also contained methylene chloride at 0.00909 mg/L (exceeding the TGC of 0.005 mg/L).
[13] Sample also contained 1,1-dichloroethane at 0.00153 mg/L (less than the RSL of 0.0024 mg/L).
[14] Sample also contained methlyene chloride at 0.0133 mg/L (exceeding the TGC of 0.005 mg/L)
[15] Sample also contained n-butylbenzene at 0.0155 mg/L (no TGC or RSL) and naphthalene at 0.00621 mg/L (exceeding RSL of 0.00014 mg/L but less than TDUST risk-based standard for drinking water)
[16] Sample also contained methylene chloride at 0.00804 mg/L (exceeding the TGC of 0.005 mg/L) and trans-1,3-dichloropropene at 11.4 mg/L (exceeding the RSL of 0.00041 mg/L).
[17] Sample also contained methylene chloride at 0.00533 mg/L (exceeding the TGC of 0.005 mg/L) and 1,1-dichloroethane at 0.00128 mg/L (less than the RSL of 0.0024 mg/L).
[18] Results of resampling event performed due to unusual results of September 2013 analysis. Resampling showed September acetone results to be likely laboratory error.
[E] Semi-quantitative result - concentration exceeds the calibration range
[RL1] Reporting limit raised due to sample matrix effects.
[B1] Analyte was detected in the method blank. Concentration in sample is greater than 10x that found in method blank.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-4 [3]											
Volatiles		**2/21/2008**	**6/3/2008**	**9/10/2008**	**12/18/2008**	**3/24/2009**	**6/9/2009**	**9/2/2009**	**12/9/2009**	**3/24/2010**	**6/16/2010**	**9/21/2010**	**12/21/2010**
Acetone	14 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	0.005 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.81 [2]	NR	NR	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	**0.00114** [4]	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	0.150 [2]	<0.0010	<0.0010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-propylbenzene	0.66 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 [1]	**0.17**	**0.022**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 [1]	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
1,2,3-Trimethylbenzene	0.010 [2]	<0.0010	<0.0010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles													
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Air (Field) Blank contained 0.00541 mg/L carbon disulfide.
[5] Sample also contained bromodichloromethane at 0.00026 mg/L and chloroform at 0.0164 mg/L.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-4 [3] (Cont'd)												
Volatiles		**3/23/2011**	**6/9/2011**	**9/13/2011 [5]**	**12/13/2011**	**3/20/2012**	**6/14/2012**	**9/6/2012**	**12/13/2012**	**3/26/2013**	**9/18/2013**	**3/21/2014**	**9/22/2014**	**3/30/2015**
Acetone	14 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050	<0.025	<0.025	<0.025
Benzene	0.005 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.81 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	0.150 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
n-propylbenzene	0.66 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 [1]	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0020	<0.0030	<0.0030	<0.0030
1,2,3-Trimethylbenzene	0.010 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles														
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported
Bold - Detected at concentrat
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Air (Field) Blank contained 0.00541 mg/L carbon disulfide.
[5] Sample also contained bromodichloromethane at 0.00026 mg/L and chloroform at 0.0164 mg/L.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-5 [3]											
Volatiles		**2/22/2008**	**6/3/2008**	**9/10/2008**	**12/18/2008**	**3/25/2009**	**6/10/2009**	**9/3/2009**	**12/10/2009**	**3/25/2010**	**6/16/2010**	**9/22/2010**	**12/21/2010**
Acetone	14 [2]	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.050	<0.050	<0.050
Benzene	0.005 [1]	**0.009**	**0.013**	**0.0681**	**0.0179**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.81 [2]	NR	NR	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	0.150 [2]	<0.0010	<0.010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.010	**0.00214**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 [1]	**0.0060**	<0.010	**0.0118**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.45 [2]	**0.0012**	<0.010	**0.00296**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.0010	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-propylbenzene	0.66 [2]	<0.0010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 [1]	**0.79**	**0.86**	<0.0010	<0.0010	<0.0010	<0.0010	**0.00166**	<0.0010	<0.0010	**0.0487**	**0.0128**	<0.0010
Xylenes	10 [1]	**0.014**	<0.030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	**0.0043**	<0.0030	<0.0030
1,2,3-Trimethylbenzene	0.010 [2]	**0.0018**	<0.010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	**0.0011**	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles													
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR- Not Reported
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-5 [3] (Cont'd)												
Volatiles		**3/24/2011**	**6/10/2011**	**9/14/2011**	**12/13/2011**	**3/21/2012**	**6/14/2012**	**9/6/2012**	**12/13/2012**	**3/27/2013**	**9/18/2013**	**3/21/2014**	**9/23/2014**	**3/30/2015**
Acetone	14 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0050	<0.025	<0.025	<0.025
Benzene	0.005 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon Disulfide	0.81 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	0.150 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
n-propylbenzene	0.66 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 [1]	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0020	<0.0030	<0.0020	<0.0020
1,2,3-Trimethylbenzene	0.010 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles														
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NP - Not Promulgated NA - Not Analyzed NR- Not Reported

Bold - Detected at concentration above laboratory detection limit

Shade - Detected at concentration above regulatory level of concern

[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))

[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)

[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-6 [3]									
Volatiles		**9/9/2008**	**12/18/2008**	**3/24/2009**	**6/9/2009**	**9/2/2009**	**12/9/2009**	**3/24/2010**	**6/16/2010**	**9/21/2010**	**12/21/2010**
Acetone	14 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	0.005 [1]	<0.0010	**0.00374**	<0.0010	**0.00291**	**0.00360**	**0.00799**	<0.0010	**0.00174**	**0.00542**	**0.00155**
Carbon Disulfide	0.81 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Di-isopropyl ether	0.150 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ethylbenzene	0.7 [1]	<0.0010	**0.00558**	<0.0010	**0.00238**	**0.00317**	**0.00832**	<0.0010	<0.0010	<0.0010	<0.0010
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	**0.00174**	<0.0010	<0.0010	<0.0010	<0.0010
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-propylbenzene	0.66 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	**0.00113**	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	1 [1]	<0.0010	**0.00107**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Xylenes	10 [1]	<0.0030	**0.00568**	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
1,2,3-Trimethylbenzene	0.010 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	**0.00213**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	**0.00104**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi-volatiles											
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-6 [3] (Cont'd)								
Volatiles		**3/23/2011**	**6/9/2011**	**9/14/2011**	**12/13/2011**	**3/20/2012**	**6/14/2012**	**9/5/2012**	**12/13/2012**	**3/27/2013 [4]**
Acetone	14 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS
Benzene	0.005 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Carbon Disulfide	0.81 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Di-isopropyl ether	0.150 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NS
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Ethylbenzene	0.7 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS
n-propylbenzene	0.66 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Toluene	1 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Xylenes	10 [1]	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NS
1,2,3-Trimethylbenzene	0.010 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NS
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS
Semi-volatiles										
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NS
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NS

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Well removed from routine monitoring as approved by TDEC; abandoned December 2014.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-7 [3]									
Volatiles		**9/9/2008**	**12/17/2008**	**3/24/2009**	**6/9/2009**	**9/2/2009**	**12/9/2009**	**3/24/2010**	**6/16/2010**	**9/21/2010**	**12/21/2010**
Acetone	14 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	NS
Benzene	0.005 [1]	<0.0010	**0.00191**	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	**0.00386**	NS
Carbon Disulfide	0.81 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Di-isopropyl ether	0.150 [2]	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,4-Dichlorobenzene	0.075 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Ethylbenzene	0.7 [1]	<0.0010	**0.00208**	<0.0010	**0.00110**	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	NS
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NS	<0.010	NS
n-propylbenzene	0.66 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Toluene	1 [1]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Xylenes	10 [1]	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NS	<0.0030	NS
1,2,3-Trimethylbenzene	0.010 [2]	NR	NR	NR	NR	NR	NR	NR	NS	NR	NS
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NS	<0.0010	NS
Semi-volatiles											
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NS	NA	NS

Notes:
NP - Not Promulgated NA - Not Analyzed NS - Not Sampled NR - Not Reported
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	MW-7 [3] (Cont'd)								
Volatiles		**3/24/2011**	**6/9/2011**	**9/14/2011**	**12/13/2011**	**3/20/2012**	**6/14/2012**	**9/5/2012**	**12/13/2012**	**3/27/2013 [4]**
Acetone	14 [2]	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	NS
Benzene	0.005 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Carbon Disulfide	0.81 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Di-isopropyl ether	0.150 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NS
1,4-Dichlorobenzene	0.075 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Ethylbenzene	0.7 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Isopropylbenzene(cumene)	0.45 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	NS	<0.050	NS	<0.050	NS	<0.050	NS	NS
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.010	NS	<0.010	NS	<0.010	NS	<0.010	NS	NS
n-propylbenzene	0.66 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Toluene	1 [1]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Xylenes	10 [1]	<0.0030	NS	<0.0030	NS	<0.0030	NS	<0.0030	NS	NS
1,2,3-Trimethylbenzene	0.010 [2]	NR	NS	NR	NS	NR	NS	NR	NS	NS
1,2,4-Trimethylbenzene	0.015 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
1,3,5-Trimethylbenzene	0.120 [2]	<0.0010	NS	<0.0010	NS	<0.0010	NS	<0.0010	NS	NS
Semi-volatiles										
1-Methylnaphthalene	0.0011 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NS
2-Methylnaphthalene	0.036 [2]	NA	NS	NA	NS	NA	NS	NA	NS	NS

Notes:
NP - Not Promulgated NA - Not Analyzed NS - Not Sampled NR - Not Reported
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Well removed from routine monitoring as approved by TDEC; abandoned December 2014.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	AR-1 [3]															
Volatiles		**4/18/07 [4]**	**10/1/07 [5]**	**10/12/07 [6]**	**2/21/2008**	**6/3/2008**	**9/10/2008**	**12/18/2008**	**3/24/09 RL1**	**6/10/09 RL1**	**7/2/09 [7] RL1**	**9/2/09 [8] RL1**	**12/10/09 RL1**	**3/25/10 RL1**	**6/16/10 RL1**	**9/22/10 [9] RL1**	**12/21/10 RL1**
Acetone	14 [2]	**13,000**	**14,000 (15,000)**	**1,900**	**960**	**1,200**	**1,100**	**1,560**	**33.80**	**26.70**	**177.00**	<10	<0.050	<0.500	<0.500	<1.0	<1.0
Benzene	0.005 [1]	<1.0	<5.0	<5.0	<0.10	<1.0	**0.0201**	**0.0102**	<0.050	**0.00642**	<0.050	**0.00621**	**0.00262**	<0.010	<0.010	**0.0780**	<0.020
Carbon Disulfide	0.81 [2]	NR	NR	NR	NR	NR	<0.0010	<0.0010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.020	<0.020
Di-isopropyl ether	0.150 [2]	<1.0	<5.0	<5.0	<0.10	<1.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,4-Dichlorobenzene	0.075 [1]	<1.0	<5.0	<5.0	<0.10	<1.0	**0.00140**	<0.0010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	<0.020	<0.020
Ethylbenzene	0.7 [1]	<1.0	<5.0	<5.0	**0.42**	<1.0	**1.260**	**1.640**	**1.540**	**0.0409**	**1.260**	**1.800**	**1.380**	**0.921**	**1.060**	**0.267**	**1.660**
Isopropylbenzene(cumene)	0.45 [2]	<1.0	<5.0	<5.0	<0.10	<1.0	**0.00946**	**0.0156**	<0.050	**0.0150**	<0.050	**0.0176**	**0.0127**	**0.0113**	<0.010	**0.0952**	<0.020
Methyl Ethyl Ketone (MEK)	5.6 [2]	**11**	<50	<50	<1.0	<10	<25	**5.420**	<2.500	**0.124**	<2.5	**0.115**	<0.050	<0.500	<0.500	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<10	<50	<50	<1.0	<10	**0.0266**	<0.0100	<0.500	<0.010	**0.888**	**0.0959**	<0.010	<0.100	<0.100	<0.200	<0.200
n-propylbenzene	0.66 [2]	<1.0	<5.0	<5.0	<0.10	<1.0	**0.00710**	**0.0125**	**0.0125**	**0.0115**	<0.050	**0.0115**	**0.00881**	<0.010	<0.010	<0.020	<0.020
Toluene	1 [1]	**560**	**120 (540)**	**390**	**330**	**160**	**395**	**414**	**188**	**9.82**	**246**	**163**	**50.80**	**28.30**	**66.40**	**23.70**	**47.00**
Xylenes	10 [1]	<3.0	<15	<15	**2.0**	<3.0	**5.9**	**8.740**	**8.450**	**0.277**	**6.640**	**9.940**	**7.570**	**3.830**	**4.680**	**1.440**	**10.400**
1,2,3-Trimethylbenzene	0.010 [2]	<1.0	<5.0	<5.0	<0.10	<1.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	0.015 [2]	<1.0	<5.0	<5.0	<0.10	<1.0	**0.0126**	**0.0233**	<0.050	**0.0170**	<0.050	**0.0199**	**0.0117**	**0.0100**	<0.010	**0.0858**	<0.020
1,3,5-Trimethylbenzene	0.120 [2]	<1.0	<5.0	<5.0	<0.10	<1.0	**0.00461**	**0.00969**	<0.050	**0.00710**	<0.050	**0.00772**	**0.00531**	<0.010	<0.010	**0.0802**	<0.020
Semi-volatiles																	
1-Methylnaphthalene	0.0011 [2]	NA	<0.00010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	0.036 [2]	NA	<0.00010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008. Well converted from open borehole to screened well in August 2008.
[4] Sample collected by bailer
[5] Sample collected with both bailer and low-flow methods. Parentheses indicate bailer results.
[6] Sample collected using low-flow methods after purging well dry and allowing to recover.
[7] Sample collected after vacuum extraction event performed on June 17, 2009
[8] Sample also contained p-Isopropyltoluene at 0.00130 mg/L (no TGC or RSL).
[9] Sample also contained sec-butylbenzene at 0.0868 mg/L (no TGC or RSL).
RL1 - Reporting limit raised due to sample matrix interferences

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	AR-1 [3] (Cont'd)														
Volatiles		**3/24/11 [RL1]**	**6/9/2011**	**9/13/2011**	**12/13/2011**	**3/21/2012**	**6/14/2012**	**9/6/2012**	**12/13/2012**	**3/26/2013 [RL1]**	**9/18/2013 [RL1]**	**3/20/2014 [RL1]**	**9/22/2014**	**3/30/2015 [RL1]**		
Acetone	14 [2]	<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.500	<0.025	<0.250	<0.250	<1.250		
Benzene	0.005 [1]	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.0050	<0.010	<0.0010	<0.050		
Carbon Disulfide	0.81 [2]	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.0050	<0.010	<0.0010	<0.050		
Di-isopropyl ether	0.150 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,4-Dichlorobenzene	0.075 [1]	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.010	<0.0050	<0.010	<0.0010	<0.050		
Ethylbenzene	0.7 [1]	**0.134**	**0.772**	**0.192**	**0.242**	**0.079**	**0.0487**	**0.0237**	**0.0546**	**0.0433**	**0.0121**	<0.010	**0.0115**	**0.353**		
Isopropylbenzene(cumene)	0.45 [2]	<0.010	**0.00774**	**0.0114**	**0.00731**	**0.01270**	**0.0152**	**0.0156**	**0.0144**	<0.010	**0.00603**	**0.0122**	**0.0139**	<0.050		
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.500	<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.500	<0.250	<0.500	<0.500	<1.250		
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.100	<0.0250	<0.100	<0.100	<1.250		
n-propylbenzene	0.66 [2]	<0.010	**0.00336**	**0.00672**	**0.00432**	**0.00783**	**0.00867**	**0.00973**	**0.00841**	<0.010	<0.0050	<0.010	**0.00780**	<0.050		
Toluene	1 [1]	**1.220**	**7.980**	**0.199**	**3.520**	**0.442**	**0.600**	**0.421**	**0.890**	**2.950**	**0.434**	**0.0899**	**0.182**	<0.050		
Xylenes	10 [1]	**1.890**	**5.380**	**5.740**	**4.520**	**4.390**	**4.670**	**6.000**	**4.070**	**1.990**	**1.250**	**2.690**	**3.820**	**7.300**		
1,2,3-Trimethylbenzene	0.010 [2]	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
1,2,4-Trimethylbenzene	0.015 [2]	<0.010	**0.00530**	**0.00822**	**0.00558**	**0.00816**	**0.00926**	**0.00912**	**0.00809**	<0.010	<0.0050	<0.010	**0.00701**	<0.050		
1,3,5-Trimethylbenzene	0.120 [2]	<0.010	**0.00331**	**0.00503**	**0.00316**	**0.00470**	**0.00523**	**0.00562**	**0.00452**	<0.010	<0.0050	<0.010	**0.00447**	<0.050		
Semi-volatiles																
1-Methylnaphthalene	0.0011 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2-Methylnaphthalene	0.036 [2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008. Well converted from open borehole to screened well in August 2008.
[4] Sample collected by bailer
[5] Sample collected with both bailer and low-flow methods. Parentheses indicate bailer results.
[6] Sample collected using low-flow methods after purging well dry and allowing to recover.
[7] Sample collected after vacuum extraction event performed on June 17, 2009
[8] Sample also contained p-Isopropyltoluene at 0.00130 mg/L (no TGC or RSL).
[9] Sample also contained sec-butylbenzene at 0.0868 mg/L (no TGC or RSL).
RL1 - Reporting limit raised due to sample matrix interferences

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	RW-1 [3]														
Volatiles		**9/19/2007 [4]**	**10/12/2007 [7]**	**2/21/2008**	**6/3/2008**	**9/10/2008**	**12/18/2008 [8]**	**3/25/2009**	**6/10/2009**	**7/2/2009 [9]**	**9/2/2009**	**12/10/2009**	**3/25/2010**	**6/16/2010**	**9/22/2010**	**12/21/2010 [10]**
Acetone	14 [2]	**3.8**	**430**	< 0.050	<2.5	<25	**15.8**	**4.62**	**0.0745**	**98.4**	<10 [RL1]	<0.050	<0.500	<0.500	**0.0654**	NS
Benzene	0.005 [1]	<0.050	<5.0	**0.0016**	<0.050	**0.0114**	**0.00431**	**0.00275**	**0.00186**	<0.100	**0.00650**	**0.00170**	<0.010	<0.010	<0.0010	NS
Carbon Disulfide	0.81 [2]	NR	NR	NR	NR	**0.00159**	**0.0010**	<0.0010	<0.0010	<0.100	<0.0010	<0.0010	<0.010	<0.010	<0.0010	NS
Di-isopropyl ether	0.150 [2]	<0.050	<5.0	**0.0019**	<0.050	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NS
1,4-Dichlorobenzene	0.075 [1]	<0.050	<0.50	<0.0010	<0.050	**0.00198**	<0.0010	<0.0010	<0.0010	<0.100	<0.0010	<0.0010	<0.010	<0.010	<0.0010	NS
Ethylbenzene	0.7 [1]	**0.91**	**2.9**	**0.20**	**0.45**	**1.280**	**1.630**	**1.100**	**0.892**	**1.820**	**2.560**	**1.660**	**1.100**	**0.913**	**0.800**	NS
Isopropylbenzene(cumene)	0.45 [2]	<0.050	<5.0	**0.0036**	<0.050	**0.0128**	**0.0126**	**0.0115**	**0.00723**	<0.100	**0.0218**	**0.0159**	**0.0145**	<0.010	**0.00944**	NS
Methyl Ethyl Ketone (MEK)	5.6 [2]	<0.050	<5.0	<0.010	<0.50	**0.151**	<0.0500	**0.0540**	<0.050	<5.0	**0.0830**	<0.050	<0.500	<0.500	<0.500	NS
4-Methyl-2-pentanone (MIBK)	1.2 [2]	<0.50	<5.0	<0.010	<0.50	**0.0783**	<0.0100	**0.0799**	<0.010	<1.0	**0.0396**	<0.010	<0.100	<0.100	<0.100	NS
n-propylbenzene	0.66 [2]	<0.050	<5.0	<0.010	<0.050	**0.00708**	**0.00980**	**0.00904**	**0.00548**	<0.100	<0.0010	**0.0118**	<0.010	<0.010	**0.00572**	NS
Toluene	1 [1]	**9.1**	**180**	**4.4**	**10**	**238**	**282**	**75.3**	**70.7**	**276**	**223**	**74.80**	**48.90**	**35.00**	**38.900**	NS
Xylenes	10 [1]	**3.6**	**15**	**0.65**	**1.8**	**5.960**	**9.440**	**6.300**	**4.160**	**9.540**	**14.800**	**9.010**	**4.440**	**4.360**	**4.450**	NS
1,2,3-Trimethylbenzene	0.010 [2]	<0.050	<5.0	<0.010	<0.050	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NS
1,2,4-Trimethylbenzene	0.015 [2]	<0.050	<5.0	<0.010	<0.050	**0.00853**	**0.0201**	**0.013**	**0.00726**	<0.100	**0.0184**	**0.0110**	<0.010	<0.010	**0.00714**	NS
1,3,5-Trimethylbenzene	0.120 [2]	<0.050	<5.0	<0.010	<0.050	**0.00415**	**0.00875**	**0.00616**	**0.00305**	<0.100	**0.00838**	**0.00571**	<0.010	<0.010	**0.00659**	NS
Semi-volatiles																
1-Methylnaphthalene	0.0011 [2]	**0.00017**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS
2-Methylnaphthalene	0.036 [2]	**0.00017**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Sample collected by bailer
[7] October 2007 sample collected using low-flow methods after purging well dry and allowing to recover.
[8] Sample also contained n-butylbenzene at 0.00124 mg/L (no TGC or RSL).
[9] Sample collected after vacuum extraction event performed June 16, 2009

[RL1] Reporting limit raised due to sample matrix effects.

TABLE 1 (CONTINUED)
GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LAQUER MANUFACTURING COMPANY
All concentrations in mg/L

Constituent	Regulatory Level of Concern	RW-1 [3] (Cont'd)													
Volatiles		**3/24/2011 [10]**	**6/9/2011 [10]**	**9/14/2011**	**12/13/2011 [10]**	**3/21/2012 [10]**	**6/14/2012 [10]**	**9/5/2012 [10]**	**12/13/2012 [10]**	**3/27/2013 [RL1]**	**9/18/2013 [RL1]**	**3/20/2014 [RL1]**	**9/23/2014**	**3/30/2015 [RL1]**	
Acetone	14 [2]	NS	NS	<1.00	NS	NS	NS	NS	NS	<0.250	<0.250	<0.500	<0.025	<1.250	
Benzene	0.005 [1]	NS	NS	<0.020	NS	NS	NS	NS	NS	<0.0050	<0.050	<0.020	<0.0010	<0.050	
Carbon Disulfide	0.81 [2]	NS	NS	<0.020	NS	NS	NS	NS	NS	<0.0050	<0.050	<0.020	<0.0010	<0.050	
Di-isopropyl ether	0.150 [2]	NS	NS	NR	NS	NS	NS	NS	NS	NR	NR	NR	NR	NR	
1,4-Dichlorobenzene	0.075 [1]	NS	NS	<0.020	NS	NS	NS	NS	NS	<0.0050	<0.050	<0.020	<0.0010	<0.050	
Ethylbenzene	0.7 [1]	NS	NS	**2.150**	NS	NS	NS	NS	NS	**1.050**	**0.624**	**1.290**	**1.230**	**1.150**	
Isopropylbenzene(cumene)	0.45 [2]	NS	NS	**0.0246**	NS	NS	NS	NS	NS	**0.0282**	<0.050	**0.0290**	**0.0535**	<0.050	
Methyl Ethyl Ketone (MEK)	5.6 [2]	NS	NS	<1.00	NS	NS	NS	NS	NS	<0.250	<2.500	<1.000	<0.050	<1.250	
4-Methyl-2-pentanone (MIBK)	1.2 [2]	NS	NS	<0.200	NS	NS	NS	NS	NS	<0.050	<0.250	<0.200	<0.010	<1.250	
n-propylbenzene	0.66 [2]	NS	NS	<0.020	NS	NS	NS	NS	NS	**0.0186**	<0.050	<0.020	**0.0333**	<0.050	
Toluene	1 [1]	NS	NS	**57.100**	NS	NS	NS	NS	NS	**16.300**	**3.500**	**5.600**	**0.181**	<0.050	
Xylenes	10 [1]	NS	NS	**11.800**	NS	NS	NS	NS	NS	**11.800**	**9.500**	**15.500**	**20.700**	**10.300**	
1,2,3-Trimethylbenzene	0.010 [2]	NS	NS	NR	NS	NS	NS	NS	NS	NR	NR	NR	NR	NR	
1,2,4-Trimethylbenzene	0.015 [2]	NS	NS	<0.020	NS	NS	NS	NS	NS	**0.0129**	<0.050	<0.020	**0.0230**	<0.050	
1,3,5-Trimethylbenzene	0.120 [2]	NS	NS	<0.020	NS	NS	NS	NS	NS	**0.00820**	<0.050	<0.020	**0.0150**	<0.050	
Semi-volatiles															
1-Methylnaphthalene	0.0011 [2]	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	
2-Methylnaphthalene	0.036 [2]	NS	NS	NA	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	

Notes:
NP - Not Promulgated NA - Not Analyzed NR - Not Reported NS - Not Sampled
Bold - Detected at concentration above laboratory detection limit
Shade - Detected at concentration above regulatory level of concern
[1] Tennessee General Use Groundwater Criteria (Rule 0400-40-03-.08(2))
[2] USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites (RSLs), January 2015 (for tap water)
[3] All sampling by low-flow methods using bladder pump except as noted. Dedicated bladder pump installed December 2008.
[4] Sample collected by bailer
[10] During bioremediation efforts, RW-1 was sampled by AquAeTer and the results reported seprately.
[RL1] Reporting limit raised due to sample matrix effects.

Table 2: Summary of Analytical Results
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location LC-PC (Personnel Crossing)

Date	Acetone	Toluene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIBK)	n-Propyl-benzene	Tetra-chloro-ethene (PCE)	1,2,4-Trimethyl-benzene	1,2,3-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes
05/18/07	**5.1**	**18**	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30
05/24/07	**18**	**12** [E]	<0.050	<0.050	<0.050	<0.50	<0.50	<0.050	<0.050	<0.050	<0.050	<0.050	<0.15
06/01/07	**5.1**	**0.72** [E]	<0.0010	<0.0010	<0.0010	**0.032**	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
06/08/07	**20**	**35** [J]	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30
07/09/07	**18** [E]	**35** [E]	<0.050	<0.050	<0.050	<0.50	<0.50	<0.050	<0.050	<0.050	<0.050	<0.050	<0.15
08/08/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
09/19/07	**24**	**33**	<0.20	<0.20	<0.20	<2.0	<2.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60
10/15/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/09/07	<12	**24**	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
12/10/07	**3.0**	**7.8**	<0.050	<0.050	<0.050	<0.50	<0.50	<0.050	<0.050	<0.050	<0.050	<0.050	<0.15
01/28/08	**1.4**	**5**	<0.025	<0.025	<0.025	<0.25	<0.25	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075
02/15/08	**5.3**	**8.1**	<0.050	<0.050	<0.050	<0.50	<0.50	<0.050	<0.050	<0.050	<0.050	<0.050	<0.15
04/02/08	**6.1** [E]	**4.4**	<0.0010	<0.0010	**0.0019**	**0.016**	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	**0.010**
05/07/08	**8.8**	**6.9** [E]	<0.025	<0.025	<0.025	<0.25	<0.25	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075
06/03/08	**8.0**	**13**	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.020**
07/01/08 [1]	<10	**24**	<0.20	<0.20	<0.20	<2.0	<2.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60
07/01/08 [2]	**12.5**	**26.8**	<0.005	<0.005	**0.00735**	<0.250	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0251**
07/01/08 [3]	**13.4**	**30.3**	**0.00112**	<0.00034	**0.00704**	**0.0463**	<0.00068	<0.00023	<0.0005	**0.00308**	NR	**0.00212**	**0.03144**
09/09/08 [4]	**25.3**	**38.6** [B1]	**0.00186**	<0.0010	**0.00617**	**0.0922**	<0.010	<0.0010	<0.0010	**0.00308**	NR	<0.0010	**0.0358**
10/01/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/10/08	**10.70**	**25.10**	**0.00117**	<0.0010	**0.00892**	**0.0641**	<0.010	<0.0010	<0.0010	**0.00237**	NR	<0.0010	**0.0330**
11/13/08	**0.691**	**12.30**	<0.0010	<0.0010	**0.00330**	<0.050	<0.010	<0.0010	<0.0010	**0.00177**	NR	<0.0010	**0.0169**
12/23/08	**2.920**	**7.260**	<0.0010	<0.0010	**0.00246**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.0104**

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

Location LC-PC is the same location as that monitored by TDWPC and known as location LC-A.

[1] Environmental Science Corporation

[2] TestAmerica

[3] Tennessee Dept. of Health Environmental Laboratories

[4] Sample also contained 1,2-dichloroethane at 0.00114 mg/L and isopropylbenzene at 0.00156 mg/L

Laboratory qualifiers:

[E] Estimated result. Sample concentration exceeds the calibration range.

[J] Matrix interference, spike value is high

[V] The sample concentration is too high to evaluate accurate spike recoveries.

[J6] Matrix Interference, spike value too low

[B1] Analyte detected in method blank at less than 1/10 the concentration in the sample

Table 2: Summary of Analytical Results
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location LC-PC (Personnel Crossing) Cont'd

Date	Acetone	Toluene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIBK)	n-Propyl-benzene	Tetra-chloro-ethene (PCE)	1,2,4-Trimethyl-benzene	1,2,3-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes
02/06/09	**2.570**	**8.770**	<0.0010	<0.0010	**0.00318**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.0131**
04/24/09	<5.0	**9.440**	<0.0010	<0.0010	**0.00322**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.0166**
06/03/09	**4.890**	**32.700**	**0.00101**	<0.0010	**0.0115**	<0.050	<0.010	<0.0010	<0.0010	**0.00302**	NR	<0.0010	**0.0488**
08/10/09	**0.997**	**7.650**	<0.0010	<0.0010	**0.00267**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.0153**
10/22/09	<5.0 [RL1]	**6.970**	<0.0010	<0.0010	**0.00391**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.0195**
12/07/09	**1.740**	**10.500**	<0.0010	<0.0010	**0.00486**	<0.050	<0.010	<0.0010	<0.0010	**0.00150**	NR	<0.0010	**0.0235**
02/26/10	**0.181**	**3.170**	<0.0010	<0.0010	**0.00160**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00699**
04/16/10	**0.273**	**9.880**	<0.0010	<0.0010	**0.00478**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.0238**
06/18/10	<0.050	**3.620**	<0.0010	<0.0010	**0.00173**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00715**
07/27/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/15/10 [RL1]	<1.000	**13.800**	<0.0200	<0.0200	<0.0200	<1.000	<0.200	<0.0200	<0.0200	<0.0200	NR	<0.0200	<0.0600
12/21/10 [RL1]	<1.000	**2.000**	<0.0200	<0.0200	<0.0200	<1.000	<0.200	<0.0200	<0.0200	<0.0200	NR	<0.0200	<0.0600
03/22/11 [RL1]	<1.000	**2.500**	<0.0200	<0.0200	<0.0200	<1.000	<0.200	<0.0200	<0.0200	<0.0200	NR	<0.0200	<0.0600
6/9/2011 [5]	**0.0823**	**7.840**	<0.0010	<0.0010	**0.00358**	<0.050	<0.010	<0.0010	<0.0010	**0.00110**	NR	<0.0010	**0.0175**
9/13/11 [RL1]	<0.500	**3.150**	<0.010	<0.010	<0.010	<0.500	<0.100	<0.010	<0.010	<0.010	NR	<0.010	<0.030
12/13/11 [RL1]	<0.500	**1.960**	<0.010	<0.010	<0.010	<0.500	<0.100	<0.010	<0.010	<0.010	NR	<0.010	<0.030
03/22/12	<0.050	**1.990**	<0.0010	<0.0010	**0.00116**	<0.050	<0.010	<0.0010	<0.0010	**0.00110**	NR	<0.0010	**0.00527**
7/17/12 [RL1]	<0.250	**2.170**	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150
10/5/12 [RL1]	<0.250	**1.48** [6]	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150
12/13/12	**0.119**	**0.705**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
03/27/13	<0.050	**1.670**	<0.0010	<0.0010	**0.00106**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00375**
9/18/13 [RL1]	<0.100	**4.010**	<0.020	<0.020	<0.020	<1.000	<0.100	<0.020	<0.020	<0.020	NR	<0.020	<0.040
3/21/14 [RL1]	<0.125	**1.180**	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150
10/23/14	<0.025	**0.275**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0020
3/25/15 [RL1]	<0.125	**0.566**	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

Location LC-PC is the same location as that monitored by TDWPC and known as location LC-A.

[5] Sample also contained chloroform at 0.00227 mg/L

[6] This result is from resampling. A sample collected on September 6, 2012, contained toluene at a concentration of 0.918 mg/L.

Laboratory qualifiers:

[RL1] Reporting limit raised due to sample matrix effects

Table 2: Summary of Analytical Results Continued
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location LC-MS (Main Seep)													
Date	**Acetone**	**Toluene**	**Benzene**	**cis-1,2-Dichloro-ethene**	**Ethyl-benzene**	**Methyl Ethyl Ketone (MEK)**	**Methyl Isobutyl Ketone (MIBK)**	**n-Propyl-benzene**	**Tetra-chloro-ethene (PCE)**	**1,2,4-Trimethyl-benzene**	**1,2,3-Trimethyl-benzene**	**1,3,5-Trimethyl-benzene**	**Xylenes**
5/18/2007[a]	<12	**54** [E]	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
5/24/2007[a]	<12	**140**	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
06/01/07	**51**	**760** [E]	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5
06/08/07	<50	**330**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
07/09/07	< 250	**340**	<5.0	<5.0	<5.0	<50	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<15
08/08/07	< 25	**640**	**0.57**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5
09/19/07	<10	**32**	<0.20	<0.20	<0.20	<2.0	<2.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60
10/12/07	<120	**260**	<2.5	<2.5	<2.5	<25	<25	**3.2**	<2.5	**17**	**3.1**	**2.9**	<7.5
11/09/07	<12	**16**	<0.25	**0.27**	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
12/10/07	<1.2	**4.1**	<0.025	<0.025	<0.025	<0.25	<0.25	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075
01/28/08	**19**	**74** [E]	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
02/15/08	**14**	**38**	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
04/02/08	**120** [E]	**93**	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
05/07/08	<25	**100** [E]	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5
06/03/08	<12	**120**	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
07/01/08 [1]	<12	**150**	<0.25	<0.25	<0.25	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.75
07/01/08 [2]	**10.8**	**207**	**0.0103**	<0.005	**0.0676**	<0.250	<0.050	<0.005	<0.005	**0.00885**	<0.005	<0.005	**0.212**
07/01/08 [3]	**13.7**	**252**	**0.00975**	<0.00034	**0.0671**	**0.0743**	<0.00068	**0.00309**	<0.0005	**0.0158**	NR	**0.00602**	**0.2166**
09/09/08 [4]	**3.53** [E]	**180** [B1]	**0.00831**	<0.0010	**0.0501**	<0.050	<0.010	**0.00143**	<0.0010	**0.0101**	NR	**0.00325**	**0.158**
09/09/08 [3]	**3.910**	**198**	**0.00876**	<0.0010	**0.0540**	**0.0257**	**0.0126**	**0.00149**	<0.0010	**0.0105**	<0.0010	**0.00324**	**0.1646**
10/01/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/10/08 [5]	**3.190**	**178.0**	**0.00745**	<0.0010	**0.0736**	<0.050	<0.010	**0.00275**	<0.0010	**0.0184**	NR	**0.00578**	**0.215**
11/13/08 [6]	**18.300**	**194.0**	**0.00911**	<0.0010	**0.0699**	<0.050	<0.010	**0.00261**	<0.0010	**0.0198**	NR	**0.00636**	**0.225**
12/23/08	**8.470**	**185.0**	**0.00391**	<0.0010	**0.0426**	<0.050	<0.010	**0.00309**	<0.0010	**0.0099**	NR	**0.00331**	**0.149**
2/6/09 [7]	**0.815**	**96.0**	**0.00330**	<0.0010	**0.0366**	<0.050	<0.010	**0.00128**	<0.0010	**0.0102**	NR	**0.00325**	**0.122**
04/24/09	**70.300**	**183.0**	**0.00649**	<0.0010	**0.0757**	<0.050	<0.010	**0.00285**	<0.0010	**0.0197**	NR	**0.00591**	**0.291**

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

[a] LC-MS samples on 5/18/07 and 5/24/07 were collected from downstream end of boom area; later samples collected from point of seep.
The Liberty Creek - Main Seep is a cluster of seeps, and different seeps within the cluster have been more active than others at different times.
This fact, along with complications from stream flow levels and free-product response efforts, have resulted in variations in the actual LC-MS sampling point.

[1] Environmental Science Corporation [2] TestAmerica

[3] Tennessee Dept. of Health Environmental Laboratories; this lab also reported isopropylbenzene (0.00117J mg/L), methyl cyclohexane (0.00103 mg/L), and methylene chloride (0.00137 mg/L) in the 7/1/08 sample and 1,1,1-trichloroethane (0.0006J mg/L), isopropylbenzene (0.00072J mg/L), methyl cyclohexane (0.00081 mg/L), and methylene chloride (0.00126 mg/L) in the 9/9/08 sample.

[4] Sample also contained isopropylbenzene at 0.00211 mg/L and p-isopropyltoluene at 0.00183 mg/L

[5] Sample also contained isopropylbenzene at 0.00128 mg/L

[6] Sample also contained isopropylbenzene at 0.00125 mg/l

[7] Sample also contained chloroform at 0.00330 mg/L

Laboratory qualifiers:

[E] Estimated result. Sample concentration exceeds the calibration range.

[B1] Analyte detected in method blank at less than 1/10 the concentration in the sample

Table 2: Summary of Analytical Results Continued
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location LC-MS (Main Seep) Cont'd													
Date	**Acetone**	**Toluene**	**Benzene**	**cis-1,2-Dichloro-ethene**	**Ethyl-benzene**	**Methyl Ethyl Ketone (MEK)**	**Methyl Isobutyl Ketone (MIBK)**	**n-Propyl-benzene**	**Tetra-chloro-ethene (PCE)**	**1,2,4-Trimethyl-benzene**	**1,2,3-Trimethyl-benzene**	**1,3,5-Trimethyl-benzene**	**Xylenes**
6/3/09 [8]	<25.00	**185.0**	**0.00503**	<0.0010	**0.0724**	**0.121**	<0.010	**0.00242**	<0.0010	**0.0160**	NR	**0.00516**	<1.5
8/10/09 [9]	**9.170**	**149.0**	**0.00256**	<0.0010	**0.0574**	**0.110**	**0.0264**	**0.00221**	<0.0010	**0.0146**	NR	**0.00487**	**0.191**
10/22/09	<100.0 [RL1]	**108.0**	**0.00354**	<0.0010	**0.0472**	**0.0703**	**0.0286**	**0.00165**	<0.0010	**0.0120**	NR	**0.00393**	**0.159**
12/7/09 [10]	**15.500**	**169.0**	**0.00431**	<0.0010	**0.0645**	**0.0703**	<0.005	**0.00194**	<0.0010	**0.0144**	NR	**0.00462**	**0.256**
2/26/10 [11]	**4.510**	**137.0**	**0.00312**	<0.0010	**0.0695**	**0.0926**	<0.010	<0.0010	<0.0010	**0.0138**	NR	**0.00448**	**0.277**
4/16/10 [12]	**1.44** [E]	**150.0**	**0.00374**	<0.0010	**0.0944**	<0.050	<0.010	**0.00228**	<0.0010	**0.0157**	NR	**0.00510**	**0.369**
6/18/10 [13]	**0.220**	**131.0**	**0.00321**	<0.0010	**0.0706**	<0.050	<0.010	**0.00207**	<0.0010	**0.0148**	NR	**0.00456**	**0.269**
7/27/10 [14]	**0.0929**	**82.4**	**0.00194**	<0.0005	**0.0267**	<0.025	<0.0050	**0.00104**	<0.0005	**0.00751**	NR	**0.00234**	**0.0806**
10/15/10 [RL1]	<25.00	**196.0**	<0.500	<0.500	<0.500	<25.00	<5.00	<0.500	<0.500	<0.500	NR	<0.500	<1.500
12/21/10 [RL1]	<25.00	**78.40**	<0.500	<0.500	<0.500	<25.00	<5.00	<0.500	<0.500	<0.500	NR	<0.500	<1.500
3/22/11 [RL1]	<25.00	**88.90**	<0.500	<0.500	<0.500	<25.00	<5.00	<0.500	<0.500	<0.500	NR	<0.500	<1.500
06/09/11 [15]	<0.050	**236.0**	**0.00474**	<0.0010	**0.0964**	<0.050	<0.010	**0.00302**	<0.0010	**0.0207**	NR	**0.00641**	**0.311**
9/13/11 [RL1]	<12.5	**128.0**	<0.250	<0.250	<0.250	<12.5	<2.50	<0.250	<0.250	<0.250	NR	<0.250	<0.750
12/13/11 [RL1]	<12.5	**134.0**	<0.250	<0.250	**0.0765** [16]	<12.5	<2.50	<0.250	<0.250	<0.250	NR	<0.250	**0.236** [16]
3/22/12 [17]	<0.050	**142.0**	**0.00252**	<0.0005	**0.0938**	<0.050	<0.010	**0.00340**	<0.0010	**0.0215**	NR	**0.00634**	**0.292**
7/17/12 [RL1]	<2.50	**90.0**	<0.050	<0.050	**0.0663**	<2.50	<0.500	<0.050	<0.050	<0.050	NR	<0.050	**0.169**
10/5/12 [RL1]	<2.50	**72.7** [18]	<0.050	<0.050	**0.0708**	<2.50	<0.500	<0.050	<0.050	<0.050	NR	<0.050	**0.176**
12/13/12	<0.050	**62.20**	**0.00116**	<0.0010	**0.0489**	<0.050	<0.010	**0.00134**	<0.0010	**0.00842**	NR	**0.00264**	**0.154**
3/27/13 [RL1]	<2.50	**96.20**	<0.050	<0.050	**0.0561**	<2.50	<0.500	<0.050	<0.050	<0.050	NR	<0.050	**0.188**
9/18/13 [RL1]	<2.50	**114.00**	<0.500	<0.500	<0.500	<25.00	<2.500	<0.500	<0.500	<0.500	NR	<0.500	<1.000
3/21/14 [RL1]	<1.250	**157.00**	<0.050	<0.050	**0.0676**	<2.50	<0.500	<0.050	<0.050	<0.050	NR	<0.050	**0.177**
10/23/14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/16/15 [RL1]	<1.250	**34.70**	<0.050	<0.050	<0.050	<2.50	<0.500	<0.050	<0.050	<0.050	NR	<0.050	<0.250
3/25/15 [RL1]	<1.250	**23.60**	<0.050	<0.050	<0.050	<2.50	<0.500	<0.050	<0.050	<0.050	NR	<0.050	<0.250

Bold text indicates a detected parameter

Notes:

NR - Not Reported

NS - Not Sampled. Location had insufficient water to allow sample collection.

[8] Sample also contained isopropylbenzene at 0.00116 mg/L

[9] Sample also contained isopropylbenzene at 0.00116 mg/L

[10] Sample also contained isopropylbenzene at 0.00108 mg/L

[11] Sample also contained isopropylbenzene at 0.00191 and chloroform at 0.00108 mg/L

[12] Sample also contained isopropylbenzene at 0.00133 and chloroform at 0.00145 mg/L

[13] Sample also contained isopropylbenzene at 0.00190 mg/L

[14] Sample also contained isopropylbenzene at 0.000575 mg/L

[15] Sample also contained isopropylbenzene at 0.00191 mg/L

[16] Constituent detected in a re-analysis of the sample outside the required holding time. Result not verified.

[17] Sample also contained isopropylbenzene at 0.00196 mg/L

[18] This result is from resampling. A sample collected on September 6, 2012, contained toluene at a concentration of 0.0912 mg/L.

Laboratory qualifiers:

[E] Estimated result. Sample concentration exceeds the calibration range.

[RL1] Reporting limit raised due to sample matrix effects

Table 2: Summary of Analytical Results Continued
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location HR-2 (Harpeth River 2)

Date	Acetone	Toluene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIBK)	n-Propyl-benzene	Tetra-chloro-ethene (PCE)	1,2,4-Trimethyl-benzene	1,2,3-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes
05/18/07	**1,700** [E]	**360** [E]	<0.20	<0.20	<0.20	<2.0	<2.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60
05/24/07	**1,800**	**400**	<5.0	<5.0	<5.0	<50	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<15
06/01/07	**3,700**	**450** [E]	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5
06/08/07	**1,900**	**470**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
07/09/07	**1,500**	**180** [V]	<5.0	<5.0	<5.0	<50	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<15
08/08/07	**1,600**	**150**	<5.0	<5.0	<5.0	<50	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<15
09/19/07	**780**	**130**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
10/12/07	**890**	**250**	<2.5	<2.5	<2.5	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<7.5
11/09/07	**400**	**180**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
12/10/07	**620** [J6]	**160** [J6]	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
01/28/08	**330** [E]	**84**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5
02/21/08	**460**	**170**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.5
04/02/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/07/08	**390**	**140**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
06/10/08	**300**	**160**	**1.2**	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
06/18/08	**950**	**300**	**0.018**	<0.010	**0.14**	**3.5**	**1.7**	<0.010	<0.010	**0.023**	<0.010	<0.010	**0.55**
07/01/08 [1]	**640**	**200**	<0.10	<0.10	**0.10**	**1.8**	**1.0**	<0.10	<0.10	<0.10	<0.10	<0.10	**0.44**
07/01/08 [2]	**543**	**231**	**0.012**	<0.010	**0.120**	**3.060**	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	**0.471**
07/01/08 [3]	**773**	**294**	**0.0113**	<0.00034	**0.0820**	**3.140**	**1.160**	**0.00413**	<0.00050	**0.0233**	NR	**0.00853**	**0.3677**
09/09/08 [4]	**852**	**230** [B1]	**0.0117**	<0.0010	**0.106**	**4.590** [E]	<0.010	**0.00291**	<0.0010	**0.0225**	NR	**0.00760**	**0.511** [E]
09/09/08 [3]	**855**	**219**	**0.0120**	<0.0010	**0.0709**	**4.470**	**1.650**	**0.00272**	**0.540** [J]	**0.0239**	<0.0010	**0.00710**	**0.323**
10/1/2008 [5]	**692**	**326**	**0.0162**	<0.0010	**0.123**	<50	**0.482**	**0.00271**	<0.0010	**0.0217**	NR	**0.00687**	**0.423**
10/10/08 [6]	**489**	**179**	**0.0116**	<0.0010	**0.0902**	**3.12** [E]	**0.816**	**0.00249**	<0.0010	**0.0210**	NR	**0.00628**	**0.340**
11/13/08 [7]	**308**	**186**	**0.0110**	<0.0010	**0.0902**	**1.900** [E]	**0.546**	**0.00316**	<0.0010	**0.0255**	NR	**0.00810**	**0.343**
12/23/08	**186**	**99**	**0.00622**	<0.0010	**0.0909**	**1.320**	<0.010	**0.00491**	<0.0010	**0.0229**	NR	**0.00723**	**0.380**

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

[1] Environmental Science Corporation

[2] TestAmerica

[3] Tennessee Dept. of Health Environmental Laboratories; this lab also reported 2-hexanone (0.00116J mg/L), isopropylbenzene (0.00216 mg/L), and methylene chloride (0.000720 mg/L) in the 7/1/08 sample, and 2-hexanone (0.0123 mg/L, carbon disulfide (0.00174 mg/L), isopropylbenzene (0.00145J mg/L), and methylene chloride (0.000830 mg/L) in the 9/9/08 sample.

[4] Sample also contained isopropylbenzene at 0.00289 mg/L and p-isopropyltoluene at 0.00190 mg/L.

[5] Sample also contained isopropylbenzene at 0.00132 mg/L

[6] Sample also contained isopropylbenzene at 0.00138 mg/L

[7] Sample also contained isopropylbenzene at 0.00158 mg/L

Laboratory qualifiers:

[E] Estimated result. Sample concentration exceeds the calibration range.

[J] Matrix interference, spike value is high (for TDEH lab results: estimated value)

[V] The sample concentration is too high to evaluate accurate spike recoveries.

[B1] Analyte detected in method blank at less than 1/10 the concentration in the sample

[J6] Matrix Interference, spike value too low

Table 2: Summary of Analytical Results Continued
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location HR-2 (Harpeth River 2) Cont'd

Date	Acetone	Toluene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIBK)	n-Propyl-benzene	Tetra-chloro-ethene (PCE)	1,2,4-Trimethyl-benzene	1,2,3-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes
2/6/2009 [8]	**75.50**	**104**	**0.00481**	<0.0010	**0.0742**	**0.321**	**0.430**	**0.00233**	<0.0010	**0.0196**	NR	**0.00630**	**0.362**
04/24/09	<0.050	**30**	**0.00145**	<0.0010	**0.0234**	<0.050	<0.010	<0.0010	<0.0010	**0.00879**	NR	**0.00283**	**0.114**
06/03/09	<0.050	**78.5**	**0.00277**	<0.0010	**0.0485**	<0.050	<0.010	**0.00202**	<0.0010	**0.0154**	NR	**0.00465**	**0.225**
8/10/09 [9]	<0.050	**90.8**	**0.00337**	<0.0010	**0.0599**	<0.050	<0.010	**0.00243**	<0.0010	**0.0174**	NR	**0.00559**	**0.234**
10/02/09	<0.050	**49.6**	**0.00322**	<0.0010	**0.0475**	<0.050	<0.010	**0.00188**	<0.0010	**0.0141**	NR	**0.00450**	**0.184**
12/07/09	<0.050	**43.6**	**0.00302**	<0.0010	**0.0521**	<0.050	<0.010	**0.00201**	<0.0010	**0.0152**	NR	**0.00475**	**0.213**
2/26/10 [10]	<0.050	**2.44**	<0.0010	<0.0010	**0.00931**	<0.050	<0.010	<0.0010	<0.0010	**0.00307**	NR	**0.00114**	**0.0292**
04/16/10	<0.050	**0.0638**	<0.0010	<0.0010	**0.00311**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00569**
06/18/10	<0.050	**2.35**	**0.00156**	<0.0010	**0.0206**	<0.050	<0.010	<0.0010	<0.0010	**0.00343**	NR	**0.00117**	**0.0932**
07/27/10	<0.050	**0.427**	<0.0010	<0.0010	**0.0205**	<0.050	<0.010	<0.0010	<0.0010	**0.00339**	NR	**0.00113**	**0.0827**
10/15/10	<0.050	**0.918**	**0.00411**	<0.0010	**0.0457**	<0.050	<0.010	<0.0010	<0.0010	**0.00687**	NR	**0.00198**	**0.175**
12/21/10	<0.050	**1.520**	**0.00143**	<0.0010	**0.0124**	<0.050	<0.010	<0.0010	<0.0010	**0.00360**	NR	**0.00109**	**0.0464**
03/22/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/09/11	<0.050	**0.00585**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
09/13/11	<0.025	**0.00369**	**0.000890**	<0.0010	**0.00271**	<0.025	<0.0050	<0.0005	<0.0005	**0.00160**	NR	<0.0005	**0.00507**
12/13/11 [11]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

[8] Sample also contained isopropylbenzene at 0.00133 mg/L

[9] Sample also contained isopropylbenzene at 0.00112 mg/L

[10] Sample also contained isopropylbenzene at 0.00100 mg/L

[11] Location no longer sampled as approved by TDSWM

Table 2: Summary of Analytical Results Continued
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location Watergate (Upstream of Main Seep)													
Date	**Acetone**	**Toluene**	**Benzene**	**cis-1,2-Dichloro-ethene**	**Ethyl-benzene**	**Methyl Ethyl Ketone (MEK)**	**Methyl Isobutyl Ketone (MIBK)**	**n-Propyl-benzene**	**Tetra-chloro-ethene (PCE)**	**1,2,4-Trimethyl-benzene**	**1,2,3-Trimethyl-benzene**	**1,3,5-Trimethyl-benzene**	**Xylenes**
11/09/07	<0.50	**11**	<0.050	<0.050	<0.050	<0.50	<0.50	<0.050	**0.053**	<0.050	<0.050	<0.050	<0.15
12/10/07	<1.2	**4.2**	<0.025	<0.025	<0.025	<0.25	<0.25	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075
01/28/08	**0.52**	**2.6**	<0.10	<0.10	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30
02/15/08	<1.0	**4.3** [E]	<0.020	<0.020	<0.020	<0.20	<0.20	<0.020	<0.020	<0.020	<0.020	<0.020	<0.060
04/02/08	**3.0** [E]	**7.0**	<0.0010	<0.0010	**0.0016**	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	**0.0069**
05/07/08	<0.5	**3.0** [E]	<0.010	<0.010	<0.010	<0.10	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.030
06/03/08	**0.12**	**5.9**	<0.0010	<0.0010	**0.0018**	<0.010	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	**0.0068**
07/01/08 [1]	<50	**180**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
07/01/08 [2]	**0.642**	**15.1**	<0.005	<0.005	<0.005	<0.250	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.015
07/01/08 [3]	**0.568**	**18.8**	**0.00080**	<0.00034	**0.00564**	<0.0075	<0.00068	<0.00023	<0.00050	**0.00260**	NR	**0.00188**	**0.02008**
09/09/08 [4]	**0.0986**	**13.5** [B1]	<0.0010	<0.0010	**0.00202**	<0.050	<0.010	<0.0010	<0.0010	**0.00183**	NR	<0.0010	**0.00893**
10/01/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/10/08	<2.5 [RL1]	**17.90**	<0.0010	<0.0010	**0.00698**	<0.050	<0.010	<0.0010	<0.0010	**0.00196**	NR	<0.0010	**0.0229**
11/13/08	<0.050	**15.80**	<0.0010	<0.0010	**0.00508**	<0.050	<0.010	<0.0010	<0.0010	**0.00160**	NR	<0.0010	**0.0174**
12/23/08	<0.050	**2.750**	<0.0010	<0.0010	**0.00105**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00327**

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

[1] Environmental Science Corporation

[2] TestAmerica

[3] Tennessee Dept. of Health Environmental Laboratories

[4] Sample also contained isopropylbenzene at 0.00151 mg/L and p-isopropyltoluene at 0.00177 mg/L

Laboratory qualifiers:

[E] Estimated result. Sample concentration exceeds the calibration range.

[J] Matrix interference, spike value is high

[V] The sample concentration is too high to evaluate accurate spike recoveries.

[J6] Matrix Interference, spike value too low

[B1] Analyte detected in method blank at less than 1/10 the concentration in the sample

[RL1] Reporting limit raised due to matrix effects.

Table 2: Summary of Analytical Results Continued
Liberty Creek and Harpeth River Seeps
Results in mg/L

Sampling Location Watergate (Upstream of Main Seep) Cont'd

Date	Acetone	Toluene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIBK)	n-Propyl-benzene	Tetra-chloro-ethene (PCE)	1,2,4-Trimethyl-benzene	1,2,3-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes
02/06/09	<0.050	**2.750**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00312**
04/24/09	**2.540**	**5.370**	<0.0010	<0.0010	**0.00205**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00926**
06/03/09	**1.180**	**12.200**	<0.0010	<0.0010	**0.00518**	<0.050	<0.010	<0.0010	<0.0010	**0.00122**	NR	<0.0010	**0.0177**
08/10/09	**0.187**	**4.550**	<0.0010	<0.0010	**0.00153**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00603**
10/22/09	<0.050	**3.270**	<0.0010	<0.0010	**0.00124**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00480**
12/07/09	**0.933**	**7.400**	<0.0010	<0.0010	**0.00339**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.0138**
02/26/10	**0.136**	**2.530**	<0.0010	<0.0010	**0.00111**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00432**
4/16/10 [5]	**0.0582**	**3.540**	<0.0010	<0.0010	**0.00240**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00982**
6/18/10 [6]	<0.050	**2.600**	<0.0010	<0.0010	**0.00112**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00422**
07/27/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/15/10 [RL1]	<1.000	**9.820**	<0.0200	<0.0200	<0.0200	<1.000	<0.200	<0.0200	<0.0200	<0.0200	NR	<0.0200	<0.0600
12/21/10 [RL1]	<1.000	**1.790**	<0.0100	<0.0100	<0.0100	<0.500	<0.100	<0.0100	<0.0100	<0.0100	NR	<0.0100	<0.0300
3/22/11 [RL1]	<0.500	**1.780**	<0.0100	<0.0100	<0.0100	<0.500	<0.100	<0.0100	<0.0100	<0.0100	NR	<0.0100	<0.0300
6/9/2011 [7]	<0.050	**1.610** [B1]	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
9/13/11 [RL1, 8]	<0.625	**3.630**	<0.00250	<0.00250	**0.00255**	<0.125	<0.025	<0.00250	<0.00250	<0.00250	NR	<0.00250	**0.00890**
12/13/11 [RL1]	<0.500	**1.610**	<0.0100	<0.0100	<0.0100	<0.500	<0.100	<0.0100	<0.0100	<0.0100	NR	<0.0100	<0.0300
03/22/12	<0.050	**1.760**	<0.0010	<0.0010	**0.00114**	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	**0.00499**
7/17/12 [RL1]	<0.250	**1.710**	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150
10/5/12 [RL1]	<0.250	**2.020**	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150
12/13/12	**0.143**	**0.591**	<0.0100	<0.0100	<0.0100	<0.500	<0.100	<0.0100	<0.0100	<0.0100	NR	<0.0100	<0.0300
03/27/13	<0.250	**0.705**	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150
9/18/13 [RL1]	<0.050	**1.950**	<0.010	<0.010	<0.010	<0.500	<0.050	<0.010	<0.010	<0.010	NR	<0.010	<0.020
3/21/14 [RL1]	<0.125	**0.488**	<0.0050	<0.0050	<0.0050	<0.250	<0.050	<0.0050	<0.0050	<0.0050	NR	<0.0050	<0.0150
10/23/14	<0.025	**0.468**	<0.0100	<0.0100	<0.0100	<0.500	<0.100	<0.0100	<0.0100	<0.0100	NR	<0.0100	<0.0020
03/25/15	<0.050	**0.233**	<0.0020	<0.0020	<0.0020	<0.050	<0.050	<0.0020	<0.0020	<0.0020	NR	<0.0020	<0.010

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

[5] Sample also contained chloroform at 0.00109 mg/L

[6] Sample also contained chloroform at 0.00141 mg/L

[7] Sample also contained chloroform at 0.00483 mg/L

[8] Sample also contained chloroform at 0.00270 mg/L

Laboratory qualifiers:

[E] Estimated result. Sample concentration exceeds the calibration range.

[J] Matrix interference, spike value is high

[V] The sample concentration is too high to evaluate accurate spike recoveries.

[J6] Matrix Interference, spike value too low

[B1] Analyte detected in method blank at less than 1/10 the concentration in the sample

[RL1] Reporting limit raised due to matrix effects.

Table 2: Summary of Analytical Results Continued Liberty Creek and Harpeth River Seeps Results in mg/L													
Sampling Location HR-DS-LC (Harpeth River Downstream of Liberty Creek)													
Date	Acetone	Toluene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIBK)	n-Propyl-benzene	Tetra-chloro-ethene (PCE)	1,2,4-Trimethyl-benzene	1,2,3-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes
11/13/08	<0.050	**0.0505**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
12/23/08	<0.050	**0.00851**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
02/06/09	<0.050	**0.0249**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
04/24/09	**0.0678**	**0.0288**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
06/03/09	<0.050	**0.0260**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
08/10/09	<0.050	**0.0252**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
10/22/09	<0.050	**0.0130**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
12/07/09	<0.050	**0.00806**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
02/26/10	<0.050	**0.0116**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
04/16/10	<0.050	**0.0119**	<0.0010	<0.0010	<0.0010	<0.050	<0.010	<0.0010	<0.0010	<0.0010	NR	<0.0010	<0.0030
6/18/10 [1]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Bold text indicates a detected parameter

Notes:

NS - Location not sampled, dry or below river level NR - Not Reported

Laboratory qualifiers:

[E] Estimated result. Sample concentration exceeds the calibration range.

[J] Matrix interference, spike value is high

[V] The sample concentration is too high to evaluate accurate spike recoveries.

[J6] Matrix Interference, spike value too low

[B1] Analyte detected in method blank at less than 1/10 the concentration in the sample

[RL1] Reporting limit raised due to matrix effects.

[1] Location no longer sampled as approved by TDSWM

Appendix 1

Reports from EcoVac Services

July 30, 2008, EcoVac Report

ECOVAC SERVICES
The World Leader in Mobile Dual-Phase/Multi-Phase Extraction
Patented SURFAC®/ISCO-EFR®/COSOLV® Technologies

July 30, 2008

Mr. T. Dwight Hinch
TriAD Environmental Consultants, Inc.
207 Donelson Pike, Suite 200
Nashville, Tennessee 37214
tdhinch@triadenv.com

Subject: **ISCO-EFR® Pilot Test Results**
Test Events 1 to 6
Egyptian Lacquer Manufacturing Company (ELMCO) Site
113 Ft. Granger Drive
Franklin, Tennessee

Dear Mr. Hinch:

Please find attached the data summaries for the in-situ chemical oxidation (ISCO) / Enhanced Fluid Recovery (ISCO-EFR®) pilot tests conducted at the subject site on July 22-24, 2008. EFR® is a mobile form of multi-phase extraction. The following summarizes the results of these pilot tests.

EXECUTIVE SUMMARY

Six individual ISCO-EFR® pilot tests were performed to determine the efficacy of contaminant extraction and destruction at this site. The tests were successful in removing a significant mass (approximately 251 equivalent gallons of acetone and toluene) and determining the subsurface interconnectivity patterns between each of the wells and the aquifer. A second, more extensive phase of mass removal and destruction by vapor extraction is proposed prior to potential future oxidant injection to further release and destroy contaminant chemicals in-situ.

VACUUM EQUIPMENT AND VAPOR DESTRUCTION SYSTEM

This pilot test was performed utilizing the EcoVac mobile multi-phase extraction system with full vapor (offgas) control. The system consists of two primary elements: a specially designed vacuum truck with two explosion-proof pumps rated at 440 cubic feet per minute each, and a vapor destruction unit consisting of two propane-fired 460 cubic inch Ford industrial engines (ICEs) specifically designed to remove and destroy volatile organic vapors.

METHODS AND CALCULATIONS

- All wells were gauged and stingers place to the total depth of the well prior to extraction
- Wells EV-1 through EV-5 were dry and wells RW-1 and MW-2 contained water

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- Acetone and toluene have an average molecular weight of 75 grams/mole (API Bulletin 2517). EcoVac's instrument (TLV Sniffer) was calibrated daily to a Hexane standard which is also 75 grams/mole. The instrument has a range of 0 to 100,000 ppmv.

- No response factor was used to adjust the meter readings

- Acetone and toluene have an average density of 6.9 pounds per gallon which was used to convert the extracted vapors from pounds to equivalent gallons (API Bulletin 2517)

- The equation used to calculate the mass removal, from the U.S. EPA publication entitled "Estimating Air Emissions from Petroleum UST Cleanups", is:

$$ER = Q \times C \times MW \times 1.581 \times 10^{-7}$$

ER = emission rate (lb/hr)
Q = pumping rate (CFM)
C = average offgas concentration (ppmv)
MW = vapor molecular weight (grams/mole)

SUMMARY OF RESULTS

Six individual well tests were performed each at EV-1, EV-2, EV-3, EV-4, EV-5, and RW-1. The EV wells were newly installed into the source area and were completed in the vadose zone and not into the saturated zone. RW-1 is screened across the water table.

The maximum mass removal rate was measured during the first test at EV-4 (488 pounds extracted in four hours) followed by the third test at EV-2 (421 pounds extracted in four hours). These wells are located very near where the release reportedly occurred. Liquid was observed in the sight glass during extraction from EV-4 and appeared to be free product which volatilized due to the vacuum in the tank. A minimal amount of liquid was visible during extraction from EV-5. No liquid was observed during the tests of the other three EV wells. Ninety gallons of liquid were recovered form the extraction test at RW-1 which was offloaded into drums on site. Data sheets are attached.

The strongest connection to the largest area was observed in Test #4 on EV-1 where every well showed strong vacuum response. No other well was able to get a response on EV-3. These data are summarized on the Differential Pressure Data Sheets which are attached.

The test results are summarized below:

Test #	Extraction Well	Pounds Removed	Equiv. Gallons Removed	Cumulative Totals (Lbs/Gals)	Date	Gallons of Liquid
1	EV-4	488	71	488/71	7/22/08	0
2	EV-5	216	31	704/102	7/22/08	0
3	EV-2	421	61	1,125/163	7/23/08	0
4	EV-1	305	44	1,430/207	7/23/08	0
5	EV-3	217	31	1,647/238	7/24/08	0
6	RW-1	89	13	1,736/251	7/24/08	90

A calculated total of 1,736 pounds of petroleum hydrocarbons (approximately 251 equivalent gallons of acetone and toluene) were removed and vaporized prior to destruction by the offgas treatment unit.

CONCLUSIONS

The ISCO-EFR® tests were successful in removing a significant mass of contaminant from the subsurface and destroying the contaminants by vaporization and internal combustion. The vacuum responses of the adjacent wells during the testing combined with the mass removals measured during each test allow for optimization of extraction in the next phase of source area remediation. The extraction sequence to maximize both mass removal and affect the largest impacted area is EV-4, EV-1, EV-2, EV-3, and EV-5. Each well would be added in sequence to the extraction array as the concentrations decrease until all five wells are fully open.

RECOMMENDATIONS

Based on the results and conclusions of the testing and on observations made in the field, the following sequence of actions is recommended:

1. Pave the areas that are not already paved to limit any short circuiting during vapor extraction. This paving will also stop all surface water infiltration into the source area.

2. Install one new four-inch diameter recovery well between EV-2 and EV-4 constructed of stainless steel (due to the potential of some free product in this area) and extending to the top of rock. Install four additional EV wells as follows: Eastward near GP-14 screened from 10 to 20 feet; Westward between GP-5 and GP-28 screened from 10 to 25 feet; Northward 8 feet from EV-2 screened from 10 to 25 feet; and Southward 8 feet from EV-1 screened from 15 to 30 feet. The EV wells should be two-inch diameter PVC as before.

3. Place a dual ICE system onsite which can pull from multiple wells to extract, volatilize, and destroy the contaminant mass economically prior to any potential future injection of oxidants to the source area as a third phase of remediation .

Sincerely,

EcoVac Services

David M. Goodrich

David M. Goodrich, P.G.

September 26, 2008, EcoVac Report

ECOVAC SERVICES
The World Leader in Mobile Dual-Phase/Multi-Phase Extraction and
Patented SURFAC®/ISCO-EFR®/COSOLV® Technologies

September 26, 2008

Mr. T. Dwight Hinch
TriAD Environmental Consultants, Inc.
207 Donelson Pike, Suite 200
Nashville, Tennessee 37214
tdhinch@triadenv.com

Subject: **Enhanced Fluid Recovery (EFR®) Results**
Events No. 7 and 8
Egyptian Lacquer Manufacturing Company (ELMCO) Site
113 Ft. Granger Drive
Franklin, Tennessee

Dear Mr. Hinch:

Please find attached the data summary for the seventh and eighth EFR® events conducted at the subject site on September 18 and 19, 2008. Six three to four-hour in-situ chemical oxidation (ISCO)/EFR® pilot tests were previously conducted at the subject site from July 22 through 24, 2008. The following summarizes the results of these EFR® events.

SUMMARY OF RESULTS (Event No. 7 – September 18, 2008)

Liquid was not detected in monitor wells EV-1, EV-2, EV-3, EV-4, and EV-5 prior to, or upon completion of, conducting this EFR® event. EFR® was performed for 10.5 hours at three extraction points, consisting of extraction wells EV-1, EV-2, and EV-4.

A calculated total of 920 pounds of petroleum hydrocarbons (approximately 133 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate fluctuated 70 to 93 pounds per hour during the event.

A dual internal combustion engine (DICE) unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 23,000 to 28,000 parts per million (PPM) during this EFR® event. DICE flow rates ranged from 256 to 281 cubic feet per minute (CFM). The DICE released a calculated total of 0.39 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.96%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
EV-1	2 to 5 inches of mercury
EV-2	4 to 10 inches of mercury
EV-4	4 to 11 inches of mercury

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Differential pressures were recorded during this event to assess the vacuum induced by EFR® in the vadose zone. Differential pressures recorded at the monitor wells are detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
EV-5	-2.68 inches of water	EV-4 (7.5 feet)
EV-3	-4.41 inches of water	EV-4 (56 feet)
AR-1	0.00 inch of water	EV-1 (70 feet)

SUMMARY OF RESULTS (Event No. 8 – September 19, 2008)

Liquid was not detected in monitor wells EV-1, EV-2, EV-3, EV-4, and EV-5 prior to, or upon completion of, conducting this EFR® event. EFR® was performed for 5.5 hours at three extraction points, consisting of extraction wells EV-1, EV-2, and EV-4.

A calculated total of 673 pounds of petroleum hydrocarbons (approximately 98 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate fluctuated from 112 to 143 pounds per hour during the event. Approximately 482 equivalent gallons of acetone and toluene have been removed by EFR® at this site.

A DICE unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 33,000 to 41,000 PPM during this EFR® event. DICE flow rates ranged from 269 to 294 CFM. The DICE released a calculated total of 0.35 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.95%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
EV-1	2 to 4 inches of mercury
EV-2	5 to 8 inches of mercury
EV-4	4 to 8 inches of mercury

Differential pressures were recorded during this event to assess the vacuum induced by EFR® in the vadose zone. Differential pressures recorded at the monitor wells are detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
EV-5	-2.05 inches of water	EV-4 (7.5 feet)
EV-3	-3.51 inches of water	EV-4 (56 feet)
AR-1	-0.13 inch of water	EV-1 (70 feet)

Sincerely,

EcoVac Services

David M. Goodrich

David M. Goodrich, P.G.

EFR® FIELD DATA SHEET

Client: TriAd Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 7
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technicians: Goodrich	Date: 9/18/08

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	6:00	Inlet	EV-1	EV-2	EV-4						Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-1,2,4	6:30	23	2	4	4						23,000	256	70	35	9	0.027	0.014
"	7:00	23	2	5	4						28,000	268	89	45	12	0.038	0.019
"	8:00	23	2	6	4						27,000	264	85	85	11	0.034	0.034
"	9:00	23	3	7	5						28,000	271	90	90	10	0.032	0.032
"	10:00	22	3	7	6						27,000	267	86	86	9	0.029	0.029
"	11:00	22	3	8	6						26,000	272	84	84	12	0.039	0.039
"	12:00	22	4	8	7						28,000	281	93	93	11	0.037	0.037
"	13:00	22	4	8	7						26,000	279	86	86	14	0.046	0.046
"	14:00	22	5	8	8						28,000	275	91	91	12	0.039	0.039
"	15:00	21	5	8	9						27,000	278	89	89	11	0.036	0.036
"	16:00	20	5	8	9						28,000	272	90	90	12	0.039	0.039
"	16:30	20	5	10	11						28,000	275	91	46	14	0.046	0.023

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	-	Dry	-	-	Dry	-	-	0	20
EV-2	2"	21.58	-	Dry	-	-	Dry	-	-	0	20
EV-3	2"	18.04	-	Dry	-	-	Dry	-	-		
EV-4	2"	21.35	-	Dry	-	-	Dry	-	-	0	20
EV-5	2"	20.57	-	Dry	-	-	Dry	-	-		

Vacuum Truck Information

Subcontractor:	AllVac
Truck Operator:	Waddell
Truck No.:	149
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information

Hydrocarbons Removed (vapor):	920	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	133	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	N/A	
Manifest Number:	N/A	
Total Liquids Removed:	0	gallons

Time:	6:00 to 16:30
# Pumps:	2
RPM:	900

Offgas Treatment Information

Atmospheric Exhaust:	0.39	pound
Destruction Efficiency:	99.96%	percent

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Comments: ERM collected Suma Cannister samples at 8:00, 10:00, 12:00, and 14:00.

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 7 Date: 9/18/08
Facility Name: Egyptian Lacquer Manufacturing Company
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		EV-5	EV-3	AR-1
Nearest Extraction Well:		EV-4	EV-4	EV-4
Approximate Distance:		7.5 feet	9 feet	56 feet
Time	Elapsed Time	Differential Pressures (inches of water):		
6:30	0.5 hr.	-1.14	-1.67	-
7:00	1.0 hr.	-1.21	-1.82	-
8:00	2.0 hrs.	-1.34	-2.05	0.00
9:00	3.0 hrs.	-1.49	-2.40	0.00
10:00	4.0 hrs.	-1.47	-2.49	0.00
11:00	5.0 hrs.	-1.63	-2.63	0.00
12:00	6.0 hrs.	-1.59	-2.60	0.00
13:00	7.0 hrs.	-1.70	-2.82	0.00
14:00	8.0 hrs.	-1.70	-2.81	0.00
15:00	9.0 hrs.	-1.71	-2.86	0.00
16:00	10.0 hrs.	-2.08	-3.50	0.00
16:30	10.5 hrs	-2.68	-4.41	0.00
Maximum Change:		-2.68	-4.41	0.00

EFR® FIELD DATA SHEET

Client: TriAd Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 8
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: Goodrich	Date: 9/19/08

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	5:30	Inlet	EV-1	EV-2	EV-4						Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-1,2,4	6:00	23	2	5	4						41,000	294	143	72	8	0.028	0.014
"	6:30	23	2	5	4						33,000	286	112	56	12	0.041	0.020
"	7:30	22	3	7	6						39,000	279	129	129	11	0.036	0.036
"	8:30	21	3	7	6						38,000	281	127	127	19	0.063	0.063
"	9:30	20	3	7	7						35,000	273	113	113	23	0.075	0.075
"	10:30	19	4	8	8						37,000	269	118	118	29	0.093	0.093
"	11:00	19	4	8	8						36,000	271	116	58	30	0.097	0.048

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"		-	Dry	-	-	Dry	-	-	0	20
EV-2	2"		-	Dry	-	-	Dry	-	-	0	20
EV-3	2"		-	Dry	-	-	Dry	-	-		
EV-4	2"		-	Dry	-	-	Dry	-	-	0	20
EV-5	2"		-	Dry	-	-	Dry	-	-		

Vacuum Truck Information

Subcontractor:	AllVac
Truck Operator:	Waddell
Truck No.:	149
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information

Hydrocarbons Removed (vapor):	673	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	98	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	N/A	
Manifest Number:	N/A	
Total Liquids Removed:	0	gallons

Time:	5:30 to 11:00
# Pumps:	2
RPM:	900

Offgas Treatment Information

Atmospheric Exhaust:	0.35	pound
Destruction Efficiency:	99.95%	percent

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Comments:

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #8 Date: August 19, 2008
Facility Name: Egyptian Lacquer Manufacturing Company
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		EV-5	EV-3	AR-1
Nearest Extraction Well:		EV-4	EV-4	EV-4
Approximate Distance:		7.5 feet	9 feet	56 feet
Time	Elapsed Time	Differential Pressures (inches of water):		
6:00	0.5 hr.	-1.69	-2.85	-0.10
6:30	1.0 hr.	-1.71	-2.89	-0.13
7:30	2.0 hrs.	-1.90	-3.23	-0.03
8:30	3.0 hrs.	-1.95	-3.35	0.00
9:30	4.0 hrs.	-2.00	-3.42	0.00
10:30	5.0 hrs.	-2.05	-3.51	0.00
Maximum Change:		-2.05	-3.51	-0.13

October 28, 2008, EcoVac Report

ECOVAC SERVICES
The World Leader in Mobile Dual-Phase/Multi-Phase Extraction and Patented SURFAC®/ISCO-EFR®/COSOLV® Technologies

October 28, 2008

Mr. T. Dwight Hinch
TriAD Environmental Consultants, Inc.
207 Donelson Pike, Suite 200
Nashville, Tennessee 37214
tdhinch@triadenv.com

Subject: **Enhanced Fluid Recovery (EFR®) Results**
Events No. 9 through 12
Egyptian Lacquer Manufacturing Company (ELMCO) Site
113 Ft. Granger Drive
Franklin, Tennessee

Dear Mr. Hinch:

Please find attached the data summary for the ninth, tenth, eleventh, and twelfth EFR® events conducted at the subject site on October 13, 14, 15, and 16, 2008. The seventh and eighth EFR® events were conducted at the subject site on September 18 and 19, 2008. Six three to four-hour in-situ chemical oxidation (ISCO)/EFR® pilot tests were previously conducted at the subject site from July 22 through 24, 2008. The following summarizes the results of these EFR® events.

SUMMARY OF RESULTS

(Event No. 9 – October 13, 2008)

Liquid was not detected in monitor wells EV-1, EV-2, EV-3, EV-4, and EV-5 prior to, or upon completion of, conducting this EFR® event. EFR® was performed for eight hours at three extraction points, consisting of extraction wells EV-1, EV-2, and EV-4.

A calculated total of 577 pounds of petroleum hydrocarbons (normalized as an acetone/ toluene mix- approximately 84 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate fluctuated 55 to 88 pounds per hour during the event.

A dual internal combustion engine (DICE) unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 18,000 to 34,000 parts per million by volume (PPM_V) during this EFR® event. DICE flow rates ranged from 197 to 271 cubic feet per minute (CFM). The DICE released a calculated total of 0.29 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.95%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
EV-1	3 to 4 inches of mercury
EV-2	3 to 10 inches of mercury
EV-4	4 to 7 inches of mercury

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Differential pressures were recorded during this event to assess the vacuum induced by EFR® in the vadose zone. Differential pressures recorded at the monitor wells are detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
EV-5	-1.84 inches of water	EV-4 (8 feet)
EV-3	-3.34 inches of water	EV-4 (9 feet)

(Event No. 10 – October 14, 2008)

Liquid was not detected in monitor wells EV-1, EV-2, EV-3, EV-4, and EV-5 prior to, or upon completion of, conducting this EFR® event. Separate phase hydrocarbons (SPH) were not detected in MW-3 prior to the event; however, SPH was detected in the well at the conclusion of the event (0.29 feet). EFR® was performed for twelve hours at three extraction points, consisting of extraction wells EV-1, EV-2, and EV-4.

A calculated total of 972 pounds of petroleum hydrocarbons (normalized as an acetone/ toluene mix- approximately 141 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate fluctuated 53 to 100 pounds per hour during the event, with a general increasing trend observed during the course of extraction. It is noted that the highest removal rate occurred as the final reading.

The DICE unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 16,000 to 32,000 PPM_V during this EFR® event. DICE flow rates ranged from 260 to 282 CFM. The DICE released a calculated total of 0.53 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.95%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
EV-1	1 to 5 inches of mercury
EV-2	2 to 9 inches of mercury
EV-4	1 to 9 inches of mercury

Differential pressures were recorded during this event to assess the vacuum induced by EFR® in the vadose zone. Differential pressures recorded at the monitor wells are detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
EV-5	-2.14 inches of water	EV-4 (8 feet)
EV-3	-3.85 inches of water	EV-4 (9 feet)

Groundwater levels were also recorded during this event to assess the groundwater drawdown induced by EFR®. The groundwater drawdown data are detailed in the attached table and summarized below:

Monitor Well	Maximum Change
MW-3	+0.29 feet/-0.27 feet*

*Maximum change in SPH thickness/Maximum change in corrected groundwater depth

(Event No. 11 – October 15, 2008)

Liquid was not detected in monitor wells EV-1, EV-2, EV-3, EV-4, and EV-5 prior to, or upon completion of, conducting this EFR® event. SPH was detected in MW-3 (0.31 feet) prior to the event and decreased to 0.25 feet at the completion of the event. SPH was not detected MW-2, AP-1, or RW-1. EFR® was performed for twelve hours at three extraction points, consisting of extraction wells EV-1, EV-2, and EV-4.

A calculated total of 1,206 pounds of petroleum hydrocarbons (normalized as an acetone/ toluene mix- approximately 175 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate ranged from 82 to 112 pounds per hour during the event, with a trend of increasing removal rates observed throughout the day. It is noted that the highest removal rate occurred the final reading.

The DICE unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 24,000 to 32,000 PPM_V during this EFR® event. DICE flow rates ranged from 287 to 296 CFM. The DICE released a calculated total of 0.76 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.94%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
EV-1	3 to 5 inches of mercury
EV-2	4 to 7 inches of mercury
EV-4	4 to 7 inches of mercury

Differential pressures were recorded during this event to assess the vacuum induced by EFR® in the vadose zone. Differential pressures recorded at the monitor wells are detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
EV-5	-2.21 inches of water	EV-4 (7 feet)
EV-3	-4.00 inches of water	EV-4 (9.5 feet)
AR-1	0.00 inches of water	EV-4 (36.5 feet)
RW-1	-0.36 inches of water	EV-4 (52 feet)

Groundwater levels were also recorded during this event to assess the groundwater drawdown induced by EFR®. The groundwater drawdown data are detailed in the attached table and summarized below:

Monitor Well	Maximum Change
MW-2	0.00 feet
MW-3	-0.06/0.00 feet*
AR-1	+0.01 feet
RW-1	+0.04 feet

*Maximum change in SPH thickness/Maximum change in corrected groundwater depth

(Event No. 12 – October 16, 2008)

Liquid was not detected in monitor wells EV-1, EV-2, EV-3, EV-4, EV-5, and RW-1 prior to, or upon completion of, conducting this EFR® event. SPH was detected in MW-3 (0.24 feet) prior to the event. EFR® was performed for 7.5 hours at three extraction points, consisting of extraction wells EV-1, EV-2, and EV-4. The 0.5 hour involved evacuating well fluids from MW-3 at the conclusion of the event.

A calculated total of 786 pounds of petroleum hydrocarbons (normalized as an acetone/ toluene mix- approximately 114 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate increased from 90 to 109 pounds per hour during the event. Approximately 996 equivalent gallons of acetone and toluene have been removed at this site by EFR®.

The DICE unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 26,000 to 32,000 PPM_V during this EFR® event. DICE flow rates ranged from 286 to 291 CFM. The DICE released a calculated total of 0.36 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.95%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
EV-1	2 to 5 inches of mercury
EV-2	4 to 7 inches of mercury
EV-4	4 to 7 inches of mercury

Differential pressures were recorded during this event to assess the vacuum induced by EFR® in the vadose zone. Differential pressures recorded at the monitor wells are detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Nearest Extraction Well (Approximate Distance)
EV-5	-4.05 inches of water	EV-4 (8 feet)
EV-3	-2.26 inches of water	EV-4 (9 feet)
RW-1	-0.31 inches of water	EV-4 (52 feet)

Groundwater levels were also recorded during this event to assess the groundwater drawdown induced by EFR®. The groundwater drawdown data are detailed in the attached table and summarized below:

Monitor Well	Maximum Change
RW-1	-0.12 feet
MW-3	-0.24/0.00 feet

*Maximum change in SPH thickness/Maximum change in corrected groundwater depth

Approximately 5 gallons of liquid were evacuated from MW-3 at the conclusion of the event and offloaded into an on-site 55-gallon drum.

Sincerely,

EcoVac Services

David M. Goodrich

David M. Goodrich, P.G.

EFR® FIELD DATA SHEET

Client: TriAD Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 9
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technicians: West	Date: 10/13/08

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	8:00	Inlet	EV-1	EV-2	EV-4						Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-1,2,4	8:30	24	3	3	4						20,000	271	64	32	12	0.039	0.019
"	9:00	24	3	3	4						18,000	259	55	28	13	0.040	0.020
"	10:00	24	3	3	4						24,000	224	64	64	13	0.035	0.035
"	11:00	23	4	4	5						24,000	225	64	64	13	0.035	0.035
"	12:00	22	4	7	7						32,000	197	75	75	13	0.030	0.030
"	13:00	22	4	7	7						34,000	218	88	88	14	0.036	0.036
"	14:00	22	4	7	7						30,000	220	78	78	14	0.037	0.037
"	15:00	22	4	7	7						28,000	220	73	73	14	0.037	0.037
"	16:00	22	4	7	7						26,000	241	74	74	13	0.037	0.037

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	-	Dry	-	-	Dry	-	-	0	20
EV-2	2"	21.58	-	Dry	-	-	Dry	-	-	0	20
EV-3	2"	18.04	-	Dry	-	-	Dry	-	-		
EV-4	2"	21.35	-	Dry	-	-	Dry	-	-	0	20
EV-5	2"	20.57	-	Dry	-	-	Dry	-	-		

Vacuum Truck Information

Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	147
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information

Hydrocarbons Removed (vapor):	577	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	84	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	N/A	
Manifest Number:	N/A	
Total Liquids Removed:	0	gallons

Time:	8:00 to 16:00
# Pumps:	2
RPM:	900

Offgas Treatment Information

Atmospheric Exhaust:	0.29	pound
Destruction Efficiency:	99.95%	percent

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Comments:

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 9 Date: 10/13/08
Facility Name: Egyptian Lacquer Manufacturing Company
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:	
		EV-5	EV-3
Nearest Extraction Well:		EV-4	EV-4
Approximate Distance:		8 feet	9 feet
Time	Elapsed Time	Differential Pressures (inches of water):	
9:00	1.0 hr.	-1.01	-1.74
10:00	2.0 hrs.	-1.39	-2.52
11:00	3.0 hrs.	-1.45	-2.68
12:00	4.0 hrs.	-1.44	-2.64
13:00	5.0 hrs.	-1.83	-3.29
14:00	6.0 hrs.	-1.84	-3.34
15:00	7.0 hrs.	-1.83	-3.31
Maximum Change:		-1.84	-3.34

EFR® FIELD DATA SHEET

Client: TriAD Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 10
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 10/14/08

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	6:00	Inlet	EV-1	EV-2	EV-4						Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-1,2,4	6:30	23	1	2	1						18,000	282	60	30	13	0.044	0.022
"	7:00	23	1	2	1						16,000	278	53	26	13	0.043	0.021
"	8:00	23	3	4	4						18,000	274	59	59	14	0.046	0.046
"	9:00	22	3	5	5						20,000	274	65	65	13	0.042	0.042
"	10:00	21	4	5	5						22,000	267	70	70	14	0.044	0.044
"	11:00	21	4	5	5						26,000	264	81	81	14	0.044	0.044
"	12:00	20	4	7	6						28,000	260	86	86	14	0.043	0.043
"	13:00	20	4	7	6						28,000	261	87	87	14	0.043	0.043
"	14:00	20	4	7	6						28,000	262	87	87	14	0.044	0.044
"	15:00	20	4	7	6						30,000	265	94	94	14	0.044	0.044
"	16:00	19	4	7	6						30,000	261	93	93	14	0.043	0.043
"	17:00	19	5	9	9						30,000	262	93	93	16	0.050	0.050
"	18:00	19	5	9	9						32,000	263	100	100	14	0.044	0.044

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	-	Dry	-	-	Dry	-	-	0	20
EV-2	2"	21.58	-	Dry	-	-	Dry	-	-	0	20
EV-3	2"	18.04	-	Dry	-	-	Dry	-	-		
EV-4	2"	21.35	-	Dry	-	-	Dry	-	-	0	20
EV-5	2"	20.57	-	Dry	-	-	Dry	-	-		
MW-3*	2"		-	32.79	0.00	32.77	33.06	0.29	-0.27		

Vacuum Truck Information

Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	147
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Time:	6:00 to 18:00
# Pumps:	2
RPM:	900

Recovery/Disposal Information

Hydrocarbons Removed (vapor):	972	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	141	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	N/A	
Manifest Number:	N/A	
Total Liquids Removed:	0	gallons

Offgas Treatment Information

Atmospheric Exhaust:	0.53	pound
Destruction Efficiency:	99.95%	percent

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Comments: MW-3 was gauged at 9:30

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 10 Date: 10/14/08
Facility Name: Egyptian Lacquer Manufacturing Company
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:	
		EV-5	EV-3
Nearest Extraction Well:		EV-4	EV-4
Approximate Distance:		8 feet	9 feet
Time	Elapsed Time	Differential Pressures (inches of water):	
7:00	1.0 hr.	-1.52	-2.72
8:00	2.0 hrs.	-1.50	-2.70
9:00	3.0 hrs.	-1.61	-2.88
10:00	4.0 hrs.	-1.71	-3.05
11:00	5.0 hrs.	-1.83	-3.25
12:00	6.0 hrs.	-2.00	-3.54
13:00	7.0 hrs.	-1.96	-3.52
14:00	8.0 hrs.	-2.03	-3.59
15:00	9.0 hrs.	-2.00	-3.53
16:00	10.0 hrs.	-2.14	-3.85
Maximum Change:		-2.14	-3.85

GROUNDWATER DRAWDOWN DATA

		Well Designation:
		MW-3
Time	Elapsed Time	Depth to Liquid (feet below top of casing):
Prior to EFR®		32.79
13:00	7.0 hrs.	32.75/33.06*
16:00	10.0 hrs.	32.77/33.06*
Maximum Change:		+0.29/-0.27**

*Depth to Water/ Depth to SPH
**Maximum change in SPH thickness/Maximum drawdown corrected for the presence of SPH

EFR® FIELD DATA SHEET

Client: TriAD Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 11
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technicians: West	Date: 10/15/08

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	6:30	Inlet	EV-1	EV-2	EV-4						Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-1,2,4	7:00	24	3	4	4						24,000	289	82	41	13	0.045	0.022
"	7:30	24	3	4	4						26,000	288	89	44	14	0.048	0.024
"	8:30	23	3	4	4						26,000	288	89	89	14	0.048	0.048
"	9:30	22	4	5	5						28,000	287	95	95	13	0.044	0.044
"	10:30	22	4	6	6						26,000	287	89	89	13	0.044	0.044
"	11:30	22	4	6	6						28,000	292	97	97	13	0.045	0.045
"	12:30	22	4	6	6						30,000	291	104	104	13	0.045	0.045
"	13:30	21	4	6	6						30,000	290	103	103	14	0.048	0.048
"	14:30	20	5	6	6						30,000	292	104	104	13	0.045	0.045
"	15:30	20	5	7	7						32,000	291	111	111	15	0.052	0.052
"	16:30	20	5	7	7						30,000	292	104	104	15	0.052	0.052
"	17:30	20	5	7	7						32,000	296	112	112	14	0.049	0.049
"	18:30	20	5	7	7						32,000	295	112	112	14	0.049	0.245

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	-	Dry	-	-	Dry	-	-	0	20
EV-2	2"	21.58	-	Dry	-	-	Dry	-	-	0	20
EV-3	2"	18.04	-	Dry	-	-	Dry	-	-		
EV-4	2"	21.35	-	Dry	-	-	Dry	-	-	0	20
EV-5	2"	20.57	-	Dry	-	-	Dry	-	-		
MW-2			-	43.51	0.00	-	43.51	0.00	0.00		
MW-3			32.75	33.06	0.31	32.76	33.01	0.25	0.00		
AR-1			-	39.02	0.00	-	39.01	0.00	0.01		
RW-1			-	39.39	0.00	-	39.35	0.00	0.04		

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	147
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	1,206	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	175	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	N/A	
Manifest Number:	N/A	
Total Liquids Removed:	0	gallons

Time:	6:30 to 18:30
# Pumps:	2
RPM:	900

Offgas Treatment Information		
Atmospheric Exhaust:	0.76	pound
Destruction Efficiency:	99.94%	percent

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Comments:

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 11 Date: 10/15/08
Facility Name: Egyptian Lacquer Manufacturing Company
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:			
		EV-5	EV-3	AR-1	RW-1
Nearest Extraction Well:		EV-4	EV-4	EV-4	EV-4
Approximate Distance:		7 feet	10 feet	37 feet	52 feet
Time	Elapsed Time	Differential Pressures (inches of water):			
7:30	1.0 hr.	-1.70	-2.98	0.00	0.00
8:30	2.0 hrs.	-1.87	-3.38	0.00	-0.24
9:30	3.0 hrs.	-1.91	-3.55	0.00	-0.21
10:30	4.0 hrs.	-2.01	-3.66	0.00	-0.28
11:30	5.0 hrs.	-2.08	-3.78	0.00	-0.34
12:30	6.0 hrs.	-2.08	-3.78	0.00	-0.34
13:30	7.0 hrs.	-2.09	-3.77	0.00	-0.34
14:30	8.0 hrs.	-2.11	-3.86	0.00	-0.35
15:30	9.0 hrs.	-2.18	-3.92	0.00	-0.35
16:30	10.0 hrs.	-2.21	-4.00	0.00	-0.36
Maximum Change:		-2.21	-4.00	0.00	-0.36

GROUNDWATER DRAWDOWN DATA

		Well Designation:			
		MW-2	MW-3	AR-1	RW-1
Time	Elapsed Time	Depth to Liquid (feet below top of casing):			
Prior to EFR®		43.51	32.75/33.06*	39.02	39.39
10:30	4.0 hrs.	43.51	32.77/33.06*	39.00	-
14:30	8.0 hrs.	43.51	32.76/33.01*	39.00	-
17:30	11.0 hrs.	43.51	32.76/33.01*	39.01	39.35
Maximum Change:		0.00	-0.06/0.00**	0.01	0.04

*Depth to Water/ Depth to SPH
**Maximum change in SPH thickness/Maximum drawdown corrected for the presence of SPH

EFR® FIELD DATA SHEET

Client: TriAD Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 12
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 10/16/08

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	6:00	Inlet	EV-1	EV-2	EV-4						Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-1,2,4	6:30	23	2	4	4						26,000	291	90	45	14	0.048	0.024
"	7:00	23	2	4	4						26,000	291	90	45	13	0.045	0.022
"	8:00	22	2	5	5						30,000	290	103	103	14	0.048	0.048
"	9:00	21	3	5	5						32,000	286	109	109	14	0.048	0.048
"	10:00	21	3	5	5						32,000	288	109	109	15	0.051	0.051
"	11:00	21	3	5	5						30,000	288	103	103	14	0.048	0.048
"	12:00	21	4	6	6						32,000	287	109	109	14	0.048	0.048
"	13:00	20	5	7	7						32,000	287	109	109	14	0.048	0.048
"	13:30	20	5	7	7						32,000	286	109	54	14	0.048	0.024

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	-	Dry	-	-	Dry	-	-	0	20
EV-2	2"	21.58	-	Dry	-	-	Dry	-	-	0	20
EV-3	2"	18.04	-	Dry	-	-	Dry	-	-		
EV-4	2"	21.35	-	Dry	-	-	Dry	-	-	0	20
EV-5	2"	20.57	-	Dry	-	-	Dry	-	-		
MW-3*			32.78	33.02	0.24	-	32.78	0.00	0.04		
RW-1			-	39.32	0.00	-	39.34	0.00	-0.02		

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	147
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	786	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	114	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site	
Manifest Number:	N/A	
Total Liquids Removed:	5	gallons*

Time:	6:00 to 13:30
# Pumps:	2
RPM:	900

Offgas Treatment Information		
Atmospheric Exhaust:	0.36	pound
Destruction Efficiency:	99.95%	percent

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Comments: Event was terminated after 7.5 hours of extraction to evacuate liquid from MW-3.

*Approximately 5 gallons of liquid were evacuated from MW-3 and offloaded into an on-site 55-gallon drum at the conclusion of the event.

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 12 Date: 10/16/08
Facility Name: Egyptian Lacquer Manufacturing Company
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		EV-5	EV-3	RW-1
Nearest Extraction Well:		EV-4	EV-4	EV-4
Approximate Distance:		8 feet	9 feet	52 feet
Time	Elapsed Time	Differential Pressures (inches of water):		
7:00	1.0 hr.	-3.25	-1.83	-0.23
8:00	2.0 hrs.	-3.42	-1.95	-0.24
9:00	3.0 hrs.	-3.68	-2.04	-0.25
10:00	4.0 hrs.	-3.68	-2.08	-0.27
11:00	5.0 hrs.	-3.88	-2.16	-0.28
12:00	6.0 hrs.	-4.05	-2.26	-0.31
13:00	7.0 hrs.	-4.04	-2.25	-0.30
Maximum Change:		-4.05	-2.26	-0.31

GROUNDWATER DRAWDOWN DATA

		Well Designation:	
		RW-1	MW-3
Time	Elapsed Time	Depth to Liquid (feet below top of casing):	
Prior to EFR®		39.22	39.32/32.78*
10:00	4.0 hrs.	-	39.32/32.78*
13:00	7.0 hrs.	39.34	32.78
Maximum Change:		-0.12	-0.24/0.00**

*Depth to Water/ Depth to SPH
**Maximum change in SPH thickness/Maximum drawdown corrected for the presence of SPH

March 26, 2009, EcoVac Report

ECOVAC SERVICES
The World Leader in Mobile Dual-Phase/Multi-Phase Extraction
Patented SURFAC®/ISCO-EFR®/COSOLV® Technologies

March 26, 2009

Mr. T. Dwight Hinch
TriAD Environmental Consultants, Inc.
207 Donelson Pike, Suite 200
Nashville, Tennessee 37214
tdhinch@triadenv.com

Subject: Summary Report of New EV Well Testing and DICE Restart
Egyptian Lacquer Manufacturing Company (ELMCO) Site
Franklin, Tennessee

Dear Dwight:

EcoVac Services, Inc. (EcoVac) is pleased to provide this summary report of the recent well testing and restart of the vapor extraction and destruction system (DICE unit) at the above referenced facility. The field work was performed from March 16 to 20, 2009. The scope of work included six-hour individual multi-phase extraction (EFR®) well tests on each of six newly installed liquid/vapor extraction wells designated as EV-6, 7, 8, 9, 10, and 11 on the attached site map. These tests were performed with stingers placed into the saturated zone to produce a high vacuum on the screened interval and create a cone of depression in the water table during extraction to draw in contaminants and groundwater.

These tests were implemented to develop each well in the saturated zone as well as to collect the vapor extraction data (concentration and flow rate into and out of the DICE unit) used to calculate the total volatile organic compound (VOC) mass removal rate and the optimum multi-well extraction array following the testing period. The liquid removal volumes for each well in a six-hour period were also recorded. All data was recorded on the EFR® data sheets and vacuum influence and drawdown data sheets attached to this report.

The new wells are screened in the lower vadose zone and across the saturated zone which exists at the lithologic contact between the overlying silty clays and the underlying limestone bedrock as shown on the two attached geologic cross sections. Each well was gauged before and after development with EFR® to determine if any free phase acetone or toluene were present as a floating layer of light non-aqueous phase liquid (LNAPL). No free phase LNAPL was found in

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the new wells. The liquid production rates varied from a maximum of 76 gallons in six hours at EV-10 (a well which encountered a void during drilling) to a minimum of less than 10 gallons at wells EV-6 and 7, which were found to be areas of low vapor flow as well. EV-8 made 23 gallons, EV-9 made 19 gallons, and EV-11 made 47 gallons. All of the groundwater produced (a total of approximately 175 gallons) was offloaded into onsite drums provided by ELMCO. While the wells did not produce significant liquid volumes, the daily gauging indicated the wells were recharging overnight as would be expected in the zone of fracture porosity overlying the competent bedrock where the well screens terminated as shown on the geologic cross sections.

During each well test vacuum influence was monitored on ten wells to determine the vapor conductivity between wells in the upper and lower zones in response to the applied vacuum at the extraction well. These data show that EV-8 had the largest and strongest influence on the other wells as well as producing the maximum mass of VOC's of any of the wells tested. EV-9 had good influence, EV-10 had influence on all wells except EV-11, but at low levels, EV-11 had influence on EV-5 only and EV-6 and 7 had minimal influence laterally but did have some vertically in this area where a pinnacle was encountered during drilling.

The vacuum influence data show a strong vertical connection to the existing shallow vapor extraction wells EV-1 through 5. Significant VOC's have been removed by the three month DICE extraction on the shallow vapor extraction wells such that as the applied vacuum reached upward it encountered and pulled in lower concentrations of VOC's. The vacuum could only propagate laterally and vertically upward due to the boundary condition created by the water and bedrock below. This is different than the shallow wells whose vacuum influence was able to reach laterally as well as above and below the screens.

The second phase of this effort was to use the data collected during the well testing to determine the optimal extraction well array for the restart of the DICE vapor extraction and destruction unit for continuous source area VOC remediation. The mass removal rate (MRR) for each test was as follows: EV-6 = 7 pounds; EV-7 = 22 pounds; EV-8 = 191 pounds; EV-9 = 92 pounds; EV-10 = 23 pounds; EV- 11 = 18 pounds. The cumulative total VOC mass removed during the six 6-hour tests equaled 353 pounds (approximately 51 equivalent gallons of acetone/toluene).

Results from the testing of the six new wells show that EV-8 and 9 yielded the greatest mass of VOC's, which is logical based on their position directly below the release and in very close proximity to the previously determined high mass removal wells which are screened from the surface into the vadose zone (EV-1, 2, and 4). Wells EV-6 and 7 were found to yield low vapor flow rates indicating the screens did not intercept a zone of favorable vapor conductivity and thus would not be useful for vapor extraction at this time. Well EV-10 had good vapor flow but low VOC concentrations as was found during the testing of vadose extraction well EV-5 previously in this same area. Well EV-11 had low VOC concentrations and low vapor flow rates. The wells yielding the lower MRR's may be used later in the DICE remediation after the MRR from the high VOC producing wells decreases into the range of the other wells.

Based on these data and observations, the interpretation led to the extraction well array described above consisting of wells EV-1, 2, 4, 8, and 9. The DICE unit was restarted pulling vapor only, and without stingers (to minimize liquid production), on March 19, 2009 for a 20-hour test on a combination of previous extraction wells EV-1, 2, 4 and new extraction wells EV-8 and 9. The testing of this well combination was initially performed using both engines on the DICE unit yielding 7,600 ppmv at 141 CFM, which calculates to 13 pounds per hour of VOC's. This MRR is equivalent to approximately 1.87 gallons per hour of acetone/toluene. At this MRR the supplemental fuel usage was 3 cubic feet per minute (CFM) of propane to keep both engines running with the extracted vapors.

This level of propane use would be economically undesirable due to the cost and the anticipated MRR decline as we have seen over time during extraction at this site. For this reason one engine on the DICE unit was turned off and the MRR decreased to 8 pounds per hour (8,000 ppmv at 87 CFM), or 1.15 equivalent gallons per hour of acetone/toluene. This configuration reduced the propane usage to 1.6 CFM (a 47% decrease in supplemental fuel usage).

A maintenance visit is scheduled in approximately one month at which time well optimization will again be performed to see if more or different wells will produce a new maximum MRR. Based on the data collected at that time, a decision can be made on how to proceed with the best utilization of funds. EcoVac appreciates the opportunity to provide innovative and cost effective services to TriAD and ELMCO on this project.

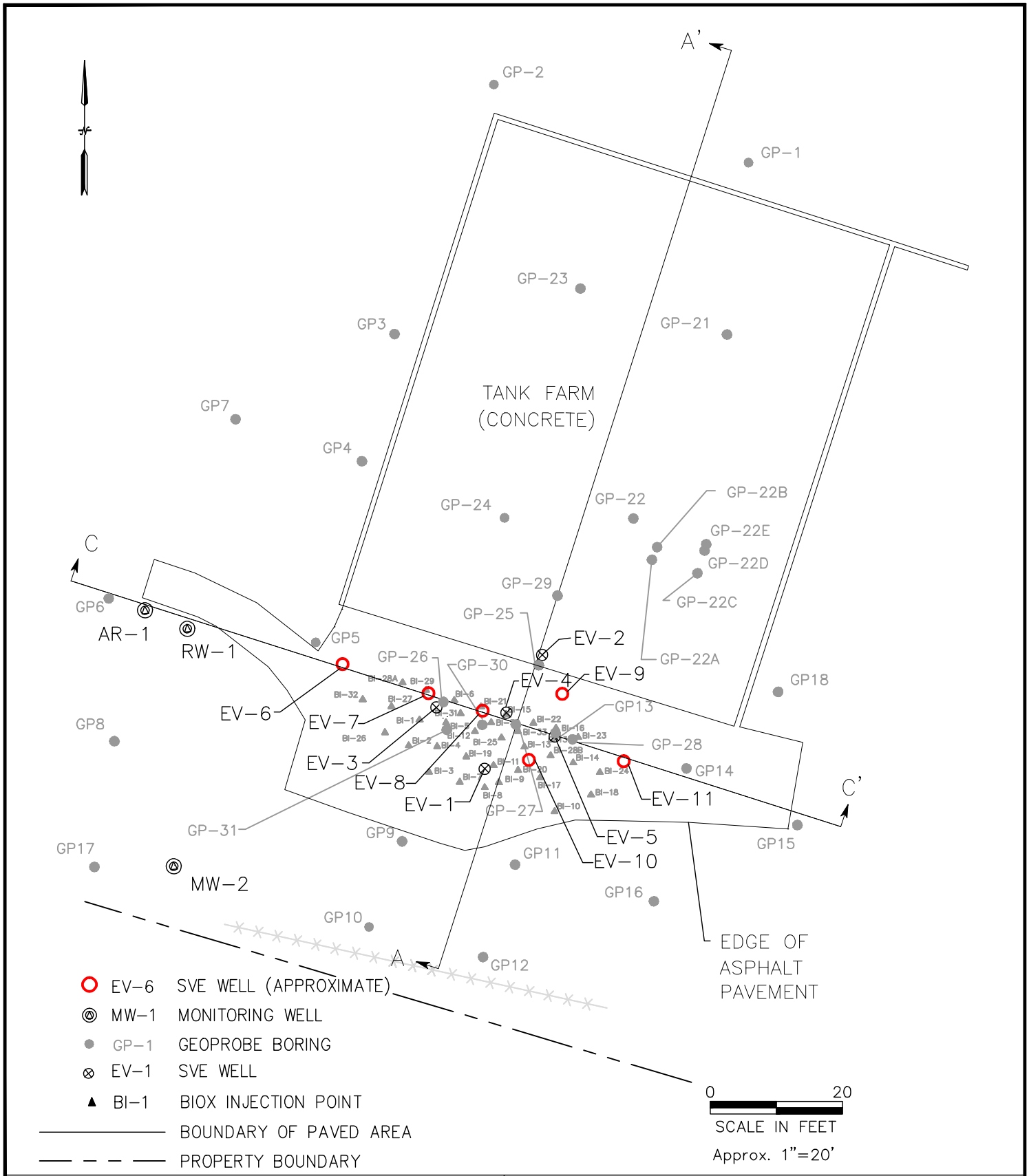
Sincerely,

EcoVac Services

David M. Goodrich

David M. Goodrich, P.G.
President and Project Manager

Attachments: Site Map Showing Well Locations
EFR® Data Sheets and Differential Pressure/Groundwater Drawdown Data Sheets
Cross Sections Showing Geology, Contaminant Distribution, and Well Screening



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FORMER TANK FARM AREA SHOWING SVE WELL SYSTEM

SOLVENT RELEASE INVESTIGATION
EGYPTIAN LACQUER MANUFACTURING CO.
FRANKLIN, TENNESSEE

FORMER-TANK-AREA-SHOWING-SVE-WELL-SYSTEM.DWG	PROJECT NO.: 07-ELM01-01
DATE: 03/13/09	SHEET 1 OF 1

EFR® FIELD DATA SHEET

Client: Triad Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 13
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 03/16/09

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	9:00	Inlet	EV-8								Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-8	9:30	22	4								24,000	291	83	41	16	0.055	0.028
"	10:00	22	4								12,000	310	44	22	16	0.059	0.029
"	11:00	22	5								10,000	247	29	29	14	0.041	0.041
"	12:00	22	5								10,000	235	28	28	14	0.039	0.039
"	13:00	22	5								10,000	203	24	24	14	0.034	0.034
"	14:00	22	5								10,000	196	23	23	14	0.033	0.033
"	15:00	22	5								10,000	190	23	23	14	0.032	0.032

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-2	2"	21.58	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-3	2"	18.04	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-4	2"	21.35	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-5	2"	29.57	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-6	2"	26.40	-	22.06	0.00	-	22.64	0.00	-0.58	-	-
EV-7	2"	25.70	-	23.16	0.00	-	23.23	0.00	-0.07	-	-
EV-8	2"	29.65	-	29.03	0.00	N/A	DRY	N/A	>-0.62	0 (closed)	29
EV-9	2"	25.70	-	24.33	0.00	-	24.40	0.00	-0.07	-	-
EV-10	2"	30.67	-	27.59	0.00	-	27.68	0.00	-0.09	-	-
EV-11	2"	22.00	-	20.80	0.00	-	20.84	0.00	-0.04	-	-

Vacuum Truck Information

Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	151
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Time:	9:00-15:00
# Pumps:	2
RPM:	800

Recovery/Disposal Information

Hydrocarbons Removed (vapor):	191	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	28	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site Drums	
Manifest Number:	N/A	
Total Liquids Removed:	23	gallons

Offgas Treatment Information

Atmospheric Exhaust:	0.24	pound
Destruction Efficiency:	99.88%	percent

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Comments:

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 13 Date: 03/16/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

EXTRACTION FROM EV-8
DIFFERENTIAL PRESSURE DATA

		Well Designation:									
		EV-4	EV-3	EV-7	EV-1	EV-10	EV-2	EV-5	EV-9	EV-6	EV-11
Nearest Extraction Well:		EV-8	EV-8	EV-8	EV-8	EV-8	EV-8	EV-8	EV-8	EV-8	EV-8
Approximate Distance:		3 feet	7 feet	7 feet	9 feet	10 feet	12 feet	12 feet	12 feet	22 feet	23 feet
Time	Elapsed Time	Differential Pressures (inches of water):									
10:00	1.0 hr.	-12.45	-0.46	-1.11	-0.38	-1.22	-1.54	-0.52	-4.16	-0.28	-0.18
11:00	2.0 hrs.	-12.45	-0.50	-1.48	-0.38	-1.09	-1.80	-0.52	-3.98	-0.27	-0.18
12:00	3.0 hrs.	-12.37	-0.50	-1.67	-0.38	-0.99	-1.90	-0.53	-3.82	-0.29	-0.19
13:00	4.0 hrs.	-12.32	-0.50	-1.71	-0.38	-0.98	-1.95	-0.52	-3.84	-0.27	-0.18
14:00	5.0 hrs.	-12.36	-0.50	-1.67	-0.38	-0.98	-1.90	-0.52	-3.84	-0.27	-0.18
Maximum Change:		-12.45	-0.50	-1.71	-0.38	-1.22	-1.95	-0.53	-4.16	-0.29	-0.19

GROUNDWATER DRAWDOWN DATA

		Well Designation:				
		EV-7	EV-10	EV-9	EV-6	EV-11
Nearest Extraction Well:		EV-8	EV-8	EV-8	EV-8	EV-8
Approximate Distance:		7 feet	10 feet	12 feet	22 feet	23 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):				
Prior to EFR®		23.16	27.59	24.33	22.06	20.80
14:30	5.5 hrs.	23.23	27.68	24.40	22.64	20.84
Maximum Change:		-0.07	-0.09	-0.07	-0.58	-0.04

EFR® FIELD DATA SHEET

Client: Triad Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 14
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 03/17/09

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	6:00	Inlet	EV-9	EV-10							Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-9	6:30	22	3	-							7,000	234	19	10	14	0.039	0.019
"	7:00	22	4	-							6,400	220	17	8.4	13	0.034	0.017
"	8:00	22	4	-							6,000	203	14	14	14	0.034	0.034
"	9:00	22	4	-							6,200	200	15	15	13	0.031	0.031
"	10:00	22	4	-							6,400	196	15	15	13	0.030	0.030
"	11:00	22	4	-							6,600	193	15	15	13	0.030	0.030
"	12:00	22	4	-							6,600	187	15	15	13	0.029	0.029
EV-10	13:00	21	-	1							3,100	158	5.8	2.9	13	0.024	0.024
"	13:30	21	-	1							2,600	150	4.6	2.3	14	0.025	0.012
"	14:30	21	-	1							2,200	147	3.8	3.8	14	0.024	0.024
"	15:30	21	-	1							2,200	147	3.8	3.8	13	0.023	0.023
"	16:30	21	-	1							2,000	148	3.5	3.5	14	0.025	0.025
"	17:30	21	-	1							1,800	147	3.1	3.1	14	0.024	0.024
"	18:30	21	-	1							1,800	147	3.1	3.1	13	0.023	0.023

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-2	2"	21.58	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-3	2"	18.04	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-4	2"	21.35	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-5	2"	29.57	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-6	2"	26.40	-	22.41	0.00	-	22.39	0.00	0.02	-	-
EV-7	2"	25.70	-	23.27	0.00	-	23.49	0.00	-0.22	-	-
EV-8	2"	29.65	-	27.60	0.00	-	27.57	0.00	0.03	-	-
EV-9	2"	25.70	N/A	DRY	N/A	-	24.43	0.00	>+1.27	0 (closed)	25
EV-10	2"	30.67	-	27.62	0.00	-	28.85	0.00	-1.23	0 (closed)	30
EV-11	2"	22.00	-	20.89	0.00	-	20.92	0.00	-0.03	-	-

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	151
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	115	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	17	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site Drums	
Manifest Number:	N/A	
Total Liquids Removed:	95	gallons

Time:	6:00-18:30
# Pumps:	2
RPM:	800

Offgas Treatment Information		
Atmospheric Exhaust:	0.35	pound
Destruction Efficiency:	99.70%	percent

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Comments: Extraction on EV-10 began at 12:30.

EV-9 Mass Removal = 92 lbs.

EV-10 Mass Removal = 23 lbs.

Liquids removed EV-10 = 76 gallons; EV-9 = 19 gallons.

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 14 Date: 03/17/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

EXTRACTION FROM EV-9
DIFFERENTIAL PRESSURE DATA

		Well Designation:									
		EV-2	EV-5	EV-4	EV-10	EV-11	EV-8	EV-1	EV-7	EV-3	EV-6
Nearest Extraction Well:		EV-9	EV-9	EV-9	EV-9	EV-9	EV-9	EV-9	EV-9	EV-9	EV-9
Approximate Distance:		7 feet	7 feet	8 feet	12 feet	13 feet	13 feet	16 feet	19 feet	19 feet	33 feet
Time	Elapsed Time	Differential Pressures (inches of water):									
7:00	1.0 hr.	-1.04	-0.96	-1.05	-2.28	-0.12	-4.11	-0.42	-1.68	-0.38	-0.39
8:00	2.0 hrs.	-1.06	-0.93	-1.05	-2.25	-0.12	-4.05	-0.44	-1.62	-0.39	-0.38
9:00	3.0 hrs.	-1.00	-0.88	-1.01	-2.26	0.00	-3.98	-0.38	-1.70	-0.34	-0.32
10:00	4.0 hrs.	-1.02	-0.92	-1.03	-2.35	-0.11	-2.11	-0.41	-1.67	-0.38	-0.34
11:00	5.0 hrs.	-1.06	-0.97	-1.06	-2.32	-0.16	-3.96	-0.43	-1.61	-0.41	-0.38
Maximum Change:		-1.06	-0.97	-1.06	-2.35	-0.16	-4.11	-0.44	-1.70	-0.41	-0.39

GROUNDWATER DRAWDOWN DATA

		Well Designation:				
		EV-10	EV-11	EV-8	EV-7	EV-6
Nearest Extraction Well:		EV-9	EV-9	EV-9	EV-9	EV-9
Approximate Distance:		12 feet	13 feet	13 feet	19 feet	33 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):				
Prior to EFR®		27.62	20.89	27.60	23.27	22.41
11:30	5.5 hrs.	27.66	20.92	27.61	23.29	22.48
Maximum Change:		-0.04	-0.03	-0.01	-0.02	-0.07

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 14 Date: 03/17/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

EXTRACTION FROM EV-10
DIFFERENTIAL PRESSURE DATA

		Well Designation:									
		EV-5	EV-1	EV-4	EV-8	EV-9	EV-11	EV-3	EV-2	EV-7	EV-6
Nearest Extraction Well:		EV-10	EV-10	EV-10	EV-10	EV-10	EV-10	EV-10	EV-10	EV-10	EV-10
Approximate Distance:		4 feet	7 feet	8 feet	11 feet	12 feet	14 feet	16 feet	16 feet	18 feet	31 feet
Time	Elapsed Time	Differential Pressures (inches of water):									
13:30	1.0 hr.	-0.11	-0.56	-0.15	-0.21	-0.36	0.00	-0.29	-0.10	-0.22	-0.39
14:30	2.0 hrs.	-0.12	-0.60	-0.14	-0.22	-0.44	0.00	-0.29	-0.11	-0.22	-0.40
15:30	3.0 hrs.	-0.13	-0.61	-0.14	-0.23	-0.48	0.00	-0.29	-0.12	-0.23	-0.41
16:30	4.0 hrs.	-0.11	-0.63	-0.13	-0.23	-0.53	0.00	-0.29	-0.09	-0.23	-0.40
17:30	5.0 hrs.	-0.12	-0.63	-0.12	-0.22	-0.62	0.00	-0.29	-0.09	-0.21	-0.40
Maximum Change:		-0.13	-0.63	-0.15	-0.23	-0.62	0.00	-0.29	-0.12	-0.23	-0.41

GROUNDWATER DRAWDOWN DATA

		Well Designation:				
		EV-8	EV-9	EV-11	EV-7	EV-6
Nearest Extraction Well:		EV-10	EV-10	EV-10	EV-9	EV-10
Approximate Distance:		11 feet	12 feet	14 feet	18 feet	31 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):				
Prior to EFR®		27.61	24.43	20.92	23.29	22.48
18:00	5.5 hrs.	27.57	24.25	20.92	23.49	22.39
Maximum Change:		0.04	0.18	0.00	-0.20	0.09

EFR® FIELD DATA SHEET

Client: Triad Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 15
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 03/18/09

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	6:00	Inlet	EV-7	EV-6							Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-7	6:30	25	20	-							3,400	110	4.4	2.2	7	0.009	0.005
"	7:00	25	20	-							3,800	89	4.0	2.0	7	0.007	0.004
"	8:00	25	20	-							3,800	88	4.0	4.0	7	0.007	0.007
"	9:00	25	20	-							3,400	88	3.6	3.6	6	0.006	0.006
"	10:00	25	20	-							3,000	89	3.2	3.2	7	0.007	0.007
"	11:00	25	20	-							3,200	89	3.4	3.4	7	0.007	0.007
"	12:00	25	20	-							3,000	88	3.1	3.1	7	0.007	0.007
EV-6	13:00	25	-	17							1,600	80	1.5	0.8	6	0.006	0.003
"	13:30	25	-	17							1,400	80	1.3	0.7	6	0.006	0.003
"	14:30	25	-	17							1,200	81	1.2	1.2	7	0.007	0.007
"	15:30	25	-	17							1,000	82	1.0	1.0	6	0.006	0.006
"	16:30	25	-	17							1,200	80	1.1	1.1	6	0.006	0.006
"	17:30	25	-	17							1,200	82	1.2	1.2	6	0.006	0.006
"	18:30	25	-	17							1,200	82	1.2	1.2	6	0.006	0.006

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	N/A	DRY	N/A	N/A	DRY	N/A	0.00	-	-
EV-2	2"	21.58	N/A	DRY	N/A	N/A	DRY	N/A	0.00	-	-
EV-3	2"	18.04	N/A	DRY	N/A	N/A	DRY	N/A	0.00	-	-
EV-4	2"	21.35	N/A	DRY	N/A	N/A	DRY	N/A	0.00	-	-
EV-5	2"	29.57	N/A	DRY	N/A	N/A	DRY	N/A	0.00	-	-
EV-6	2"	26.40	-	22.30	0.00	N/A	DRY	N/A	>-4.10	0 (closed)	26
EV-7	2"	25.70	-	23.49	0.00	N/A	DRY	N/A	>-2.21	0 (closed)	26
EV-8	2"	29.65	-	27.55	0.00	-	27.54	0.00	0.01	-	-
EV-9	2"	25.70	-	24.28	0.00	-	24.32	0.00	-0.04	-	-
EV-10	2"	30.67	-	27.69	0.00	-	27.67	0.00	0.02	-	-
EV-11	2"	22.00	-	22.23	0.00	-	20.98	0.00	1.25	-	-

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	151
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	29	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	4.2	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site Drums	
Manifest Number:	N/A	
Total Liquids Removed:	<10	gallons

Time:	6:00-18:30
# Pumps:	2
RPM:	800

Offgas Treatment Information		
Atmospheric Exhaust:	0.07	pound
Destruction Efficiency:	99.75%	percent

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Comments: Extraction on EV-6 began at 12:30.

EV-7 Mass Removal=7 lbs.

EV-6 Mass Removal=22 lbs.

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 15 Date: 03/18/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

EXTRACTION FROM EV-7
DIFFERENTIAL PRESSURE DATA

		Well Designation:									
		EV-3	EV-8	EV-4	EV-1	EV-6	EV-2	EV-5	EV-10	EV-9	EV-11
Nearest Extraction Well:		EV-7	EV-7	EV-7	EV-7	EV-7	EV-7	EV-7	EV-7	EV-7	EV-7
Approximate Distance:		3 feet	8 feet	12 feet	14 feet	14 feet	16 feet	19 feet	19 feet	20 feet	31 feet
Time	Elapsed Time	Differential Pressures (inches of water):									
7:00	1.0 hr.	-0.17	-0.46	-0.17	0.00	0.00	-0.20	0.00	0.00	-0.30	0.00
8:00	2.0 hrs.	-0.23	-0.51	-0.21	-0.09	0.00	-0.25	0.00	0.00	-0.30	0.00
9:00	3.0 hrs.	-0.22	-0.51	-0.19	-0.04	0.00	-0.23	0.00	0.00	-0.31	0.00
10:00	4.0 hrs.	-0.21	-0.50	-0.18	0.00	0.00	-0.21	0.00	0.00	-0.33	0.00
11:00	5.0 hrs.	-0.22	-0.51	-0.20	0.00	0.00	-0.22	0.00	0.00	-0.34	0.00
Maximum Change:		-0.23	-0.51	-0.21	-0.09	0.00	-0.25	0.00	0.00	-0.34	0.00

GROUNDWATER DRAWDOWN DATA

		Well Designation:				
		EV-8	EV-6	EV-10	EV-9	EV-11
Nearest Extraction Well:		EV-7	EV-7	EV-7	EV-7	EV-7
Approximate Distance:		8 feet	14 feet	19 feet	20 feet	31 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):				
Prior to EFR®		27.55	22.30	27.69	24.28	22.23
11:30	5.5 hrs	27.54	22.24	27.67	24.29	20.98
Maximum Change:		0.01	0.06	0.02	-0.01	1.25

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 15 Date: 03/18/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

EXTRACTION FROM EV-6
DIFFERENTIAL PRESSURE DATA

		Well Designation:									
		EV-3	EV-7	EV-8	EV-4	EV-1	EV-2	EV-10	EV-5	EV-9	EV-11
Nearest Extraction Well:		EV-6	EV-6	EV-6	EV-6	EV-6	EV-6	EV-6	EV-6	EV-6	EV-6
Approximate Distance:		13 feet	13 feet	21 feet	25 feet	25 feet	30 feet	31 feet	32 feet	33 feet	43 feet
Time	Elapsed Time	Differential Pressures (inches of water):									
13:30	1.0 hr.	-0.23	-0.10	-0.10	-0.10	-0.23	0.00	-0.10	0.00	0.00	0.00
14:30	2.0 hrs.	-0.32	-0.16	-0.15	-0.16	-0.26	-0.11	-0.16	-0.09	-0.12	0.00
15:30	3.0 hrs.	-0.29	-0.17	-0.13	-0.13	-0.26	-0.12	-0.15	-0.09	-0.15	0.00
16:30	4.0 hrs.	-0.28	-0.14	-0.10	-0.10	-0.23	0.00	-0.11	0.00	-0.09	0.00
17:30	5.0 hrs.	-0.29	-0.13	-0.11	-0.10	-0.23	0.00	-0.11	0.00	-0.10	0.00
Maximum Change:		-0.32	-0.17	-0.15	-0.16	-0.26	-0.12	-0.16	-0.09	-0.15	0.00

GROUNDWATER DRAWDOWN DATA

		Well Designation:			
		EV-8	EV-10	EV-9	EV-11
Nearest Extraction Well:		EV-6	EV-6	EV-6	EV-6
Approximate Distance:		21 feet	31 feet	33 feet	43 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):			
Prior to EFR®		27.54	27.67	24.29	20.98
18:00	5.5 hrs	27.54	27.67	24.32	20.98
Maximum Change:		0.00	0.00	-0.03	0.00

EFR® FIELD DATA SHEET

Client: Triad Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 16
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 03/19/09

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	6:00	Inlet	EV-11								Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
EV-11	6:30	26	21								3,000	76	2.7	1.4	6	0.005	0.003
"	7:00	26	21								3,400	76	3.1	1.5	7	0.006	0.003
"	8:00	26	21								3,600	76	3.2	3.2	6	0.005	0.005
"	9:00	26	21								3,200	77	2.9	2.9	6	0.005	0.005
"	10:00	26	21								3,400	76	3.1	3.1	7	0.006	0.006
"	11:00	26	21								3,400	76	3.1	3.1	6	0.005	0.005
"	12:00	26	21								3,600	75	3.2	3.2	6	0.005	0.005

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-1	2"	20.85	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-2	2"	21.58	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-3	2"	18.04	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-4	2"	21.35	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-5	2"	29.57	N/A	DRY	N/A	N/A	DRY	N/A		-	-
EV-6	2"	26.40	-	26.03	0.00	-	26.03	0.00	0.00	-	-
EV-7	2"	25.70	-	25.31	0.00	-	25.68	0.00	-0.37	-	-
EV-8	2"	29.65	-	27.55	0.00	-	27.55	0.00	0.00	-	-
EV-9	2"	25.70	-	24.42	0.00	-	24.42	0.00	0.00	-	-
EV-10	2"	30.67	-	27.70	0.00	-	27.70	0.00	0.00	-	-
EV-11	2"	22.40	-	21.02	0.00	-	21.71	0.00	-0.69	0 (closed)	22

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	151
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	18	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	2.7	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site Drums	
Manifest Number:	N/A	
Total Liquids Removed:	47	gallons

Time:	6:00-12:00
# Pumps:	2
RPM:	800

Offgas Treatment Information		
Atmospheric Exhaust:	0.03	pound
Destruction Efficiency:	99.82%	percent

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Comments:

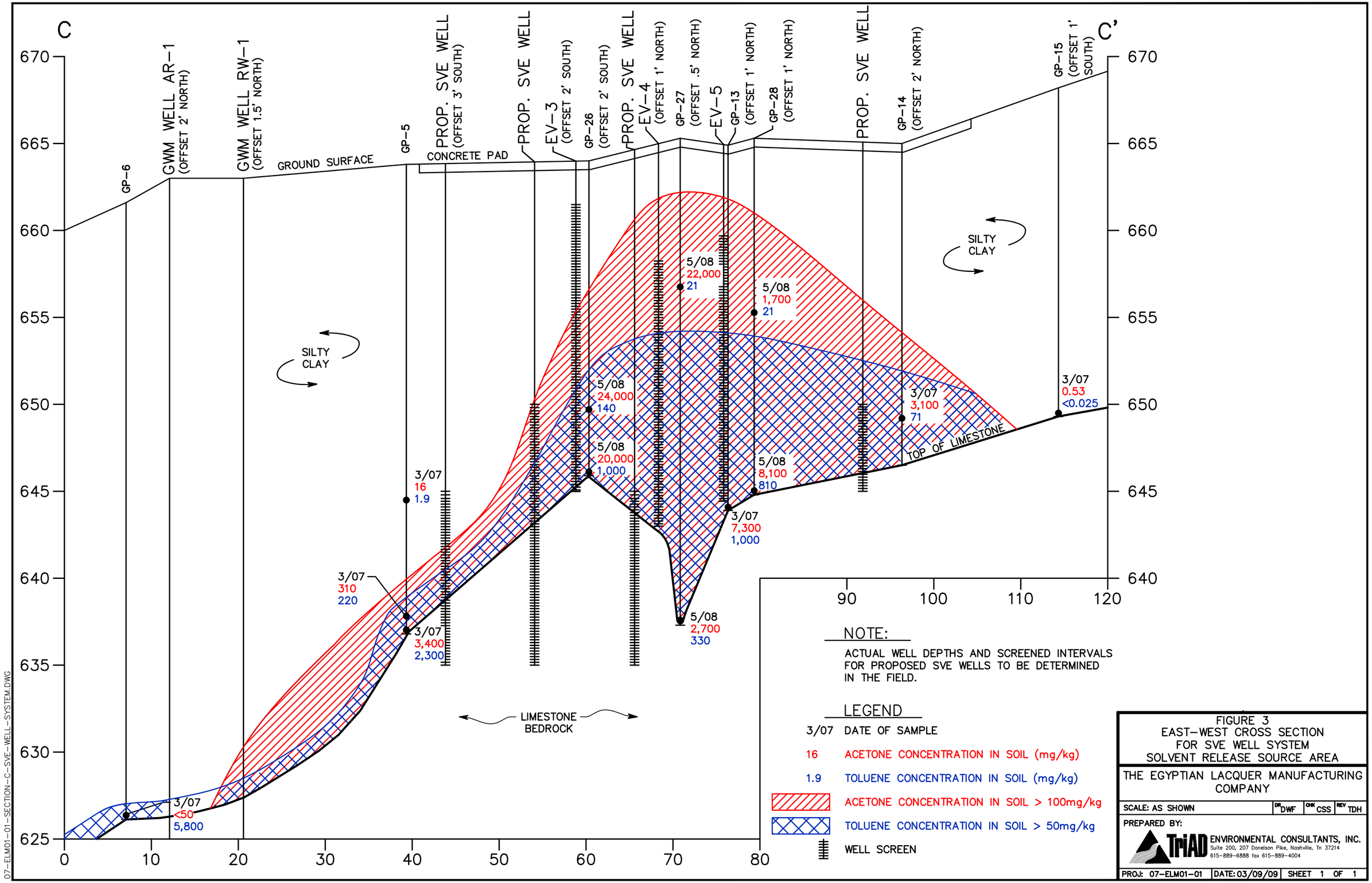
Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 16 Date: 03/19/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

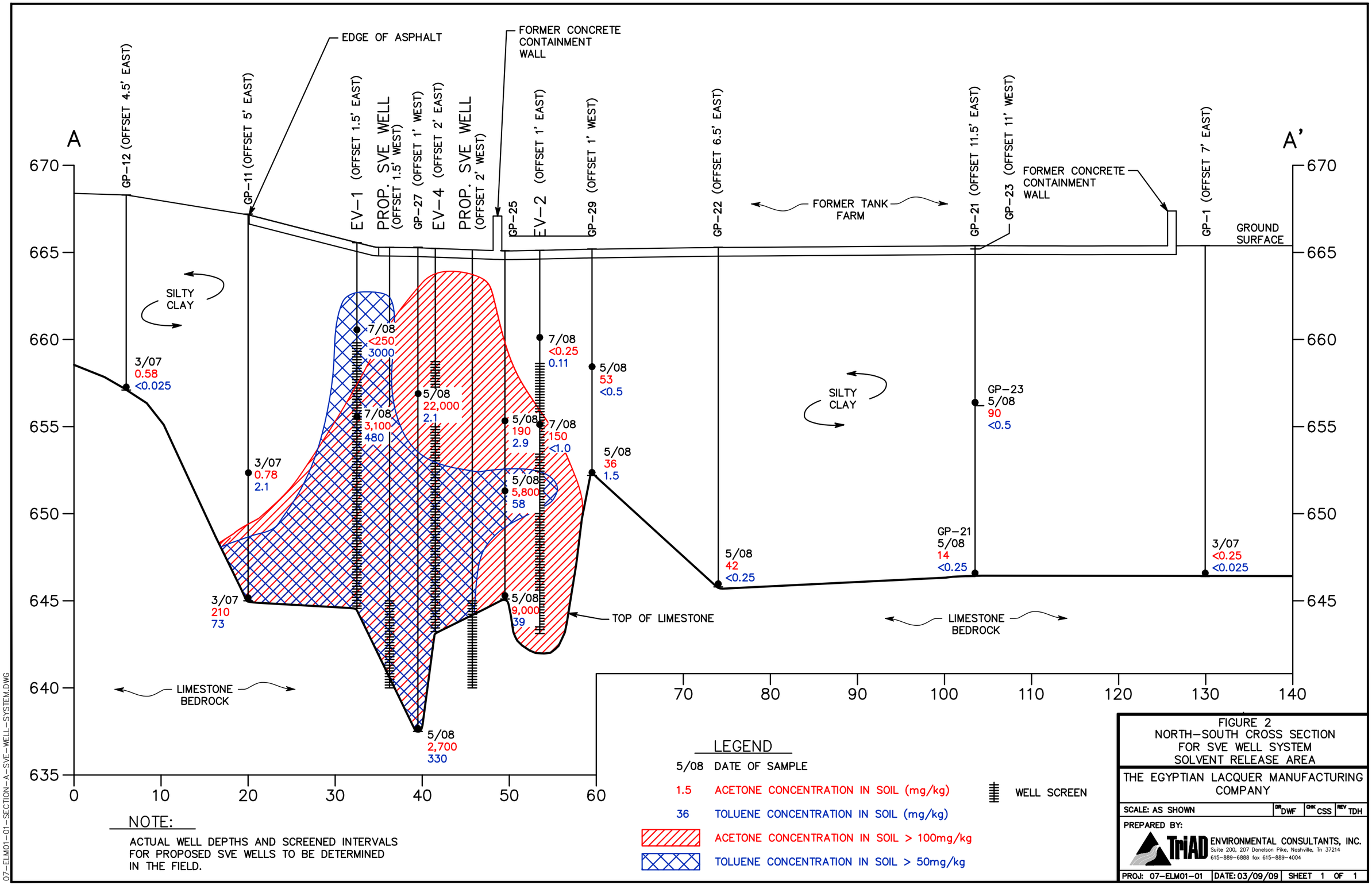
EXTRACTION FROM EV-11
DIFFERENTIAL PRESSURE DATA

		Well Designation:									
		EV-5	EV-10	EV-9	EV-4	EV-1	EV-2	EV-8	EV-3	EV-7	EV-6
Nearest Extraction Well:		EV-11	EV-11	EV-11	EV-11	EV-11	EV-11	EV-11	EV-11	EV-11	EV-11
Approximate Distance:		10 feet	13 feet	13 feet	18 feet	21 feet	20 feet	22 feet	29 feet	30 feet	45 feet
Time	Elapsed Time	Differential Pressures (inches of water):									
7:00	1.0 hr.	-0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8:00	2.0 hrs.	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9:00	3.0 hrs.	-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10:00	4.0 hrs.	-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11:00	5.0 hrs.	-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Change:		-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GROUNDWATER DRAWDOWN DATA

		Well Designation:				
		EV-10	EV-9	EV-8	EV-7	EV-6
Nearest Extraction Well:		EV-11	EV-11	EV-11	EV-11	EV-11
Approximate Distance:		13 feet	13 feet	22 feet	30 feet	45 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):				
Prior to EFR®		27.70	24.42	27.55	25.31	26.03
11:30	5.5 hrs.	27.70	24.42	27.55	25.68	26.03
Maximum Change:		0.00	0.00	0.00	-0.37	0.00


C
C'
670
665
660
655
650
645
640
635
630
625
0
10
20
30
40
50
60
70
80
90
100
110
120
GP-6
GWM WELL AR-1 (OFFSET 2' NORTH)
GWM WELL RW-1 (OFFSET 1.5' NORTH)
GROUND SURFACE
GP-5
CONCRETE PAD
PROP. SVE WELL (OFFSET 3' SOUTH)
PROP. SVE WELL
EV-3 (OFFSET 2' SOUTH)
GP-26 (OFFSET 2' SOUTH)
PROP. SVE WELL
EV-4 (OFFSET 1' NORTH)
GP-27 (OFFSET .5' NORTH)
EV-5
GP-13 (OFFSET 1' NORTH)
GP-28 (OFFSET 1' NORTH)
PROP. SVE WELL
GP-14 (OFFSET 2' NORTH)
GP-15 (OFFSET 1' SOUTH)
SILTY CLAY
SILTY CLAY
TOP OF LIMESTONE
LIMESTONE BEDROCK
3/07
<50
5,800
3/07
310
220
3/07
16
1.9
3/07
3,400
2,300
5/08
24,000
140
5/08
20,000
1,000
5/08
22,000
21
5/08
2,700
330
5/08
1,700
21
5/08
8,100
810
3/07
7,300
1,000
3/07
3,100
71
3/07
0.53
<0.025
NOTE:
ACTUAL WELL DEPTHS AND SCREENED INTERVALS FOR PROPOSED SVE WELLS TO BE DETERMINED IN THE FIELD.
LEGEND
3/07 DATE OF SAMPLE
16 ACETONE CONCENTRATION IN SOIL (mg/kg)
1.9 TOLUENE CONCENTRATION IN SOIL (mg/kg)
ACETONE CONCENTRATION IN SOIL > 100mg/kg
TOLUENE CONCENTRATION IN SOIL > 50mg/kg
WELL SCREEN
FIGURE 3
EAST-WEST CROSS SECTION
FOR SVE WELL SYSTEM
SOLVENT RELEASE SOURCE AREA
THE EGYPTIAN LACQUER MANUFACTURING COMPANY
SCALE: AS SHOWN
DR DWF
CHK CSS
REV TDH
PREPARED BY:
TriAD ENVIRONMENTAL CONSULTANTS, INC.
Suite 200, 207 Donelson Pike, Nashville, Tn 37214
615-889-6888 fax 615-889-4004
PROJ: 07-ELM01-01
DATE: 03/09/09
SHEET 1 OF 1
07-ELM01-01-SECTION-C-SVE-WELL-SYSTEM.DWG


A
A'
EDGE OF ASPHALT
FORMER CONCRETE CONTAINMENT WALL
GP-12 (OFFSET 4.5' EAST)
GP-11 (OFFSET 5' EAST)
EV-1 (OFFSET 1.5' EAST)
PROP. SVE WELL (OFFSET 1.5' WEST)
GP-27 (OFFSET 1' WEST)
EV-4 (OFFSET 2' EAST)
PROP. SVE WELL (OFFSET 2' WEST)
GP-25
EV-2 (OFFSET 1' EAST)
GP-29 (OFFSET 1' WEST)
GP-22 (OFFSET 6.5' EAST)
FORMER TANK FARM
GP-21 (OFFSET 11.5' EAST)
GP-23 (OFFSET 11' WEST)
FORMER CONCRETE CONTAINMENT WALL
GP-1 (OFFSET 7' EAST)
GROUND SURFACE
SILTY CLAY
SILTY CLAY
3/07 0.58 <0.025
3/07 0.78 2.1
3/07 210 73
7/08 <250 3000
7/08 3,100 480
5/08 22,000 2.1
5/08 190 2.9
7/08 150 <1.0
5/08 5,800 58
5/08 9,000 39
5/08 2,700 330
7/08 <0.25 0.11
5/08 53 <0.5
5/08 36 1.5
5/08 42 <0.25
GP-23 5/08 90 <0.5
GP-21 5/08 14 <0.25
3/07 <0.25 <0.025
TOP OF LIMESTONE
LIMESTONE BEDROCK
LIMESTONE BEDROCK
670
665
660
655
650
645
640
635
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
LEGEND
5/08 DATE OF SAMPLE
1.5 ACETONE CONCENTRATION IN SOIL (mg/kg)
36 TOLUENE CONCENTRATION IN SOIL (mg/kg)
ACETONE CONCENTRATION IN SOIL > 100mg/kg
TOLUENE CONCENTRATION IN SOIL > 50mg/kg
WELL SCREEN
NOTE:
ACTUAL WELL DEPTHS AND SCREENED INTERVALS FOR PROPOSED SVE WELLS TO BE DETERMINED IN THE FIELD.
FIGURE 2
NORTH-SOUTH CROSS SECTION
FOR SVE WELL SYSTEM
SOLVENT RELEASE AREA
THE EGYPTIAN LACQUER MANUFACTURING COMPANY
SCALE: AS SHOWN
DR DWF
CHK CSS
REV TDH
PREPARED BY:
TriAD ENVIRONMENTAL CONSULTANTS, INC.
Suite 200, 207 Donelson Pike, Nashville, Tn 37214
615-889-6888 fax 615-889-4004
PROJ: 07-ELM01-01
DATE: 03/09/09
SHEET 1 OF 1
07-ELM01-01-SECTION-A-SVE-WELL-SYSTEM.DWG

June 26, 2009, EcoVac Report

ECOVAC SERVICES
The World Leader in Mobile Dual-Phase/Multi-Phase Extraction and Patented SURFAC®/ISCO-EFR®/COSOLV® Technologies

June 26, 2009

Mr. T. Dwight Hinch
TriAD Environmental Consultants, Inc.
207 Donelson Pike, Suite 200
Nashville, Tennessee 37214
tdhinch@triadenv.com

Subject: **Enhanced Fluid Recovery (EFR®) Results**
Events No. 17 through 19
Egyptian Lacquer Manufacturing Company (ELMCO) Site
113 Ft. Granger Drive
Franklin, Tennessee

Dear Mr. Hinch:

Please find attached the data summary for the seventeenth, eighteenth, and nineteenth EFR® events conducted at the subject site on June 16, 17, and 18, 2009. Previous EFR® events have been conducted at the subject site between September 18, 2008 and March 19, 2009. The following summarizes the results of these EFR® events.

SUMMARY OF RESULTS

(Event No. 17 – June 16, 2009)

Separate-phase hydrocarbons (SPH) were not detected in the gauged monitor wells prior to, or upon completion of, conducting this EFR® event. EFR® was performed for eight hours at one extraction point, consisting of recovery well RW-1. Liquid was evacuated from EV-6, EV-7, EV-8, EV-9, EV-10, and EV-11 prior to EFR®.

A calculated total of 40 pounds of petroleum hydrocarbons (approximately 5.8 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate ranged from 2.8 to 6.8 pounds per hour during this event with a trend of decreasing removal rates throughout the event.

A dual internal combustion engine (DICE) unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 2,000 to 4,800 parts per million by volume (PPM_V) during this EFR® event. DICE flow rates ranged from 117 to 120 cubic feet per minute (CFM). The DICE released a calculated total of 0.09 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.79%.

105 Weatherstone Drive, Suite 610 – Woodstock, Georgia 30188
(770) 592-1001 - Fax (770) 592-1801
www.ecovacservices.com

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
RW-1	6 to 8 inches of mercury

Differential pressures were recorded during this event to assess the vacuum influence induced by EFR®. The differential pressure data is detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Distance from RW-1
AR-1	-0.15 inch of water	7 feet
EV-6	-0.17 inch of water	25 feet
MW-2	0.00 inch of water	37 feet
EV-7	0.00 inch of water	39 feet
EV-8	0.00 inch of water	39 feet
EV-3	0.00 inch of water	48 feet
MW-3	0.00 inch of water	90 feet

Groundwater levels were also recorded during this event to assess the groundwater drawdown induced during the event. The drawdown data is detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Distance from RW-1
AR-1	-0.35 feet	7 feet
MW-2	+1.71 feet	37 feet
MW-3	-0.35 feet	90 feet

Approximately 456 gallons of liquid were removed during this EFR® event and offloaded into on-site drums. SPH was not detected in the vacuum truck tank upon completion of this EFR® event.

(Event No. 18 – June 17, 2009)

SPH was not detected in the gauged wells prior to, or upon completion of, conducting this EFR® event. This EFR® event was performed for eight hours at one extraction point, consisting of AR-1.

A calculated total of 2.0 pounds of petroleum hydrocarbons (approximately 0.3 equivalent gallons of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate remained at 0.2 pound per hour during the event.

The DICE unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 200 to 280 PPM_V during this EFR® event. DICE flow rates ranged from 64 to 67 CFM. The DICE released a calculated total of 0.05 pound of hydrocarbons to the atmosphere, a destruction efficiency of 99.54%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
AR-1	17 to 18 inches of mercury

Differential pressures were recorded during this event to assess the vacuum influence induced by EFR®. The differential pressure data is detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Distance from AR-1
RW-1	0.00 inch of water	7 feet
EV-6	0.00 inch of water	32 feet
MW-2	0.00 inch of water	44 feet
EV-7	0.00 inch of water	46 feet
EV-8	0.00 inch of water	46 feet
EV-3	0.00 inch of water	55 feet
MW-3	0.00 inch of water	89 feet

Groundwater levels were also recorded during this event to assess the groundwater drawdown induced during the event. The drawdown data is detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Distance from AR-1
RW-1	-0.87 feet	7 feet
MW-2	0.00 feet	44 feet
MW-3	-0.35 feet	89 feet

Approximately 285 gallons of liquid were removed during this EFR® event and offloaded into on-site drums. SPH was not detected in the vacuum truck tank upon completion of this EFR® event.

(Event No. 19 – June 19, 2009)

SPH was not detected in the gauged wells prior to, or upon completion of, conducting this EFR® event. This EFR® event was performed for eight hours at one extraction point, consisting of monitor well MW-3.

A calculated total of 1.6 pounds of petroleum hydrocarbons (approximately 0.2 equivalent gallon of acetone and toluene) was removed during this EFR® event. The hydrocarbon removal rate ranged from 0.1 to 0.2 pound per hour during the event.

The DICE unit was utilized throughout the event to treat offgas vapors from the vacuum truck. Vapor concentrations to the DICE ranged from 180 to 320 PPM_V during this EFR® event. DICE flow rates ranged from 62 to 66 CFM. The DICE released a calculated total of 0.05 pound of hydrocarbons to the atmosphere, a destruction efficiency of 97.11%.

The range of vacuum readings recorded at the extraction wells during this EFR® event are detailed in the EFR® Field Data Sheet and summarized below:

Extraction Well	Vacuum Reading
MW-3	20 inches of mercury

Differential pressures were recorded during this event to assess the vacuum influence induced by EFR®. The differential pressure data is detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Distance from MW-3
AR-1	0.00 inch of water	89 feet
RW-1	0.00 inch of water	90 feet
EV-6	0.00 inch of water	96 feet
MW-2	0.00 inch of water	133 feet
EV-7	0.00 inch of water	144 feet
EV-8	0.00 inch of water	156 feet
EV-3	0.00 inch of water	158 feet

Groundwater levels were also recorded during this event to assess the groundwater drawdown induced during the event. The drawdown data is detailed in the attached table and summarized below:

Monitor Well	Maximum Change	Distance from MW-3
AR-1	0.02 feet	89 feet
RW-1	0.01 feet	90 feet
MW-2	-0.03 feet	133 feet

Measurable liquid was not evacuated during extraction from MW-3. Less than five gallons of liquid were evacuated from the well points of EV-7 and EV-8 and offloaded into an on-site drum.

Sincerely,

EcoVac Services

David M. Goodrich, P.G.

EFR® FIELD DATA SHEET

Client: Triad Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 17
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 06/16/09

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	8:30	Inlet	RW-1								Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
RW-1	9:00	27	6								4,800	119	6.8	3.4	6	0.008	0.004
"	9:30	25	8								4,600	118	6.4	3.2	6	0.008	0.004
"	10:30	25	8								4,000	116	5.5	5.5	7	0.010	0.010
"	11:30	24	8								4,000	117	5.6	5.6	6	0.008	0.008
"	12:30	24	8								3,000	120	4.3	4.3	6	0.009	0.009
"	13:30	24	8								2,600	119	3.7	3.7	6	0.008	0.008
"	14:30	24	8								2,200	118	3.1	3.1	6	0.008	0.008
"	15:30	24	8								2,000	119	2.8	2.8	6	0.008	0.008
"	16:30	24	8								2,000	118	2.8	8.4	6	0.008	0.025

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
EV-6	2"		-	22.35	0.00	-	DRY	N/A		-	-
EV-7	2"		-	24.56	0.00	-	DRY	N/A		-	-
EV-8	2"		-	23.67	0.00	-	DRY	N/A		-	-
EV-9	2"		-	23.76	0.00	-	DRY	N/A		-	-
EV-10	2"		-	27.83	0.00	-	DRY	N/A		-	-
EV-11	2"		-	21.78	0.00	-	DRY	N/A		-	-
RW-1	4"		-	39.16	0.00	-	43.55	0.00	-4.39	0	45
AR-1	2"		-	38.98	0.00	-	39.33	0.00	-0.35	-	-
MW-2	2"		-	43.69	0.00	-	41.98	0.00	1.71	-	-
MW-3	2"		-	32.48	0.00	-	32.32	0.00	0.16	-	-

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	151
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	40	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	5.8	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site Drums	
Manifest Number:	N/A	
Total Liquids Removed:	456	gallons

Time:	8:30-16:30
# Pumps:	2
RPM:	1,000

Offgas Treatment Information		
Atmospheric Exhaust:	0.09	pound
Destruction Efficiency:	99.79%	percent

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Comments: Evacuated liquid from EV-6 to EV-11 prior to EFR®.

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 17 Date: 06/16/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:						
		AR-1	EV-6	MW-2	EV-7	EV-8	EV-3	MW-3
Nearest Extraction Well:		RW-1	RW-1	RW-1	RW-1	RW-1	RW-1	RW-1
Approximate Distance:		7 feet	25 feet	37 feet	39 feet	39 feet	48 feet	90 feet
Time	Elapsed Time	Differential Pressures (inches of water):						
9:30	1.0 hr.	0.00	-0.12	0.00	0.00	0.00	0.00	0.00
10:30	2.0 hrs.	0.00	-0.14	0.00	0.00	0.00	0.00	0.00
11:30	3.0 hrs.	0.00	-0.17	0.00	0.00	0.00	0.00	0.00
12:30	4.0 hrs.	0.00	-0.14	0.00	0.00	0.00	0.00	0.00
13:30	5.0 hrs.	-0.15	-0.12	0.00	0.00	0.00	0.00	0.00
14:30	6.0 hrs.	-0.10	-0.14	0.00	0.00	0.00	0.00	0.00
15:30	7.0 hrs.	0.00	-0.14	0.00	0.00	0.00	0.00	0.00
Maximum Change:		-0.15	-0.17	0.00	0.00	0.00	0.00	0.00

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		AR-1	MW-2	MW-3
Nearest Extraction Well:		RW-1	RW-1	RW-1
Approximate Distance:		7 feet	37 feet	90 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):		
Prior to EFR®		38.98	43.69	32.48
16:30	8.0 hrs.	39.33	41.98	32.32
Maximum Change:		-0.35	1.71	-0.35

EFR® FIELD DATA SHEET

Client: Triad Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 18
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 06/17/09

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	5:45	Inlet	AR-1								Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
AR-1	6:15	25	17								280	66	0.2	0.1	6	0.005	0.002
"	6:45	25	17								200	64	0.2	0.1	6	0.005	0.002
"	7:45	25	17								200	64	0.2	0.2	7	0.005	0.005
"	8:45	25	17								240	64	0.2	0.2	6	0.005	0.005
"	9:45	25	17								240	64	0.2	0.2	6	0.005	0.005
"	10:45	25	17								240	65	0.2	0.2	6	0.005	0.005
"	11:45	25	18								280	67	0.2	0.2	7	0.006	0.006
"	12:45	25	18								280	66	0.2	0.2	7	0.005	0.005
"	13:45	25	18								280	66	0.2	0.7	6	0.005	0.014

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
RW-1	4"		-	39.06	0.00	-	39.93	0.00	-0.87	-	-
AR-1	2"		-	38.78	0.00	-	47.90	0.00	-9.12	<3	50
MW-2	2"		-	42.00	0.00	-	42.00	0.00	0.00	-	-
MW-3	2"		-	32.24	0.00	-	32.26	0.00	-0.02	-	-

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	151
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	2.0	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	0.3	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site Drums	
Manifest Number:	N/A	
Total Liquids Removed:	285	gallons

Time:	5:45-13:45
# Pumps:	1
RPM:	1,000

Offgas Treatment Information		
Atmospheric Exhaust:	0.05	pound
Destruction Efficiency:	97.54%	percent

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Comments:

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 18 Date: 06/17/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:						
		RW-1	EV-6	MW-2	EV-7	EV-8	EV-3	MW-3
Nearest Extraction Well:		AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1
Approximate Distance:		7 feet	32 feet	44 feet	46 feet	46 feet	55 feet	89 feet
Time	Elapsed Time	Differential Pressures (inches of water):						
6:45	1.0 hr.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7:45	2.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8:45	3.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9:45	4.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10:45	5.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11:45	6.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12:45	7.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Change:		0.00	0.00	0.00	0.00	0.00	0.00	0.00

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		RW-1	MW-2	MW-3
Nearest Extraction Well:		AR-1	AR-1	AR-1
Approximate Distance:		7 feet	44 feet	89 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):		
Prior to EFR®		39.06	42.00	32.24
13:45	8.0 hrs.	39.93	42.00	32.26
Maximum Change:		-0.87	0.00	-0.35

EFR® FIELD DATA SHEET

Client: Triad Environmental	Facility Name: Egyptian Lacquer Manufacturing Company	Event #: 19
Facility Address: 113 Ft Granger Drive, Franklin, Tennessee	Technician: West	Date: 06/18/09

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in. Hg)									DICE Inlet				DICE Exhaust		
Start Time:	5:45	Inlet	MW-3								Concen-tration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS	Concen-tration PPM	Emissions Rate LBS/HR	Interval Emissions LBS
MW-3	6:15	25	20								320	64	0.2	0.1	6	0.005	0.002
"	6:45	25	20								220	62	0.2	0.1	7	0.005	0.003
"	7:45	25	20								220	64	0.2	0.2	6	0.005	0.005
"	8:45	25	20								240	66	0.2	0.2	6	0.005	0.005
"	9:45	25	20								240	65	0.2	0.2	6	0.005	0.005
"	10:45	25	20								220	66	0.2	0.2	6	0.005	0.005
"	11:45	25	20								200	65	0.2	0.2	6	0.005	0.005
"	12:45	25	20								200	65	0.2	0.2	7	0.005	0.005
"	13:45	25	20								180	65	0.1	0.4	6	0.005	0.014

Well Gauging Data:			Before EFR® Event			After EFR® Event			Corr. DTW	Breather	Stinger
Well No.	Diam.	TD (ft)	DTS (ft)	DTW (ft)	SPH (ft)	DTS (ft)	DTW (ft)	SPH (ft)	Change (ft)	Port (CFM)	Depth (ft)
AR-1	2"		-	38.69	0.00	-	38.67	0.00	0.02	-	-
RW-1	4"		-	39.10	0.00	-	39.09	0.00	0.01	-	-
MW-2	2"		-	42.01	0.00	-	42.04	0.00	-0.03	-	-
MW-3	2"		-	52.26	0.00	-	40.66	0.00	11.60	<3	40 feet

Vacuum Truck Information	
Subcontractor:	AllVac
Truck Operator:	Kessler
Truck No.:	151
Vacuum Pumps:	Becker
Pump Type:	Twin LC-44s
Tank Capacity (gal.):	2,894
Stack I.D. (inches)	3.0

Recovery/Disposal Information		
Hydrocarbons Removed (vapor):	1.6	pounds
Hydrocarbons Removed (liquid):	0	gallons
Total Hydrocarbons Removed:	0.2	equiv. gal.
Molecular Weight Utilized:	75	g/mole
Disposal Facility:	On-Site Drums	
Manifest Number:	N/A	
Total Liquids Removed:	0	gallons

Time:	5:45-13:45
# Pumps:	1
RPM:	900

Offgas Treatment Information		
Atmospheric Exhaust:	0.05	pound
Destruction Efficiency:	97.11%	percent

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Comments: Less than five gallons of liquid were evacuated from EV-7 and EV-8's well points.

Differential Pressure and Groundwater Drawdown Data Recorded During EFR®
Event #: 19 Date: 06/18/09
ELMCO; 113 Ft. Grainger Road
Franklin, Tennessee

DIFFERENTIAL PRESSURE DATA

		Well Designation:						
		AR-1	RW-1	EV-6	MW-2	EV-7	EV-8	EV-3
Nearest Extraction Well:		MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Approximate Distance:		89 feet	90 feet	96 feet	133 feet	144 feet	156 feet	158 feet
Time	Elapsed Time	Differential Pressures (inches of water):						
6:45	1.0 hr.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7:45	2.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8:45	3.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9:45	4.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10:45	5.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11:45	6.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12:45	7.0 hrs.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Change:		0.00	0.00	0.00	0.00	0.00	0.00	0.00

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		AR-1	RW-1	MW-2
Nearest Extraction Well:		MW-3	MW-3	MW-3
Approximate Distance:		89 feet	90 feet	133 feet
Time	Elapsed Time	Depth to Liquid (feet below top of casing):		
Prior to EFR®		38.69	39.10	42.01
13:45	8.0 hrs.	38.67	39.09	42.04
Maximum Change:		0.02	0.01	-0.03

November 22, 2008, EcoVac Report

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November 22, 2008 via E-mail

To: Kerry Mattox, ELMCO
Cc: William Penny, T. Dwight Hinch, Chris Scott; Ed Ossi
Subject: **Summary of DICE Startup Operations at ELMCO Facility, Franklin, TN**

EcoVac Services Inc. has completed the startup of the DICE unit at ELMCO as of Friday November 21, 2008. The startup began on Monday, November 10, 2008 and the unit ran with both engines for part of the first week and one engine for part of the week. An unforeseen problem developed with one engine which could not be fixed on site so the DICE unit was brought back to the shop and the problematic engine was replaced with a new one on November 17-19, 2008.

The DICE unit was returned to the ELMCO facility and restarted on Thursday, November 20, 2008 at 5 PM central time. The startup is now complete and the DICE unit will operate under the lease agreement going forward. There will be no lease charges for the week the DICE was not running as was stated in my previous email correspondence. The lease term will start as of Friday, November 21, 2008.

During the startup phase approximately 1351 pounds (194 equivalent gallons of Toluene/Acetone mixture at 6.95 pounds per gallon) of VOC's were extracted and destroyed by the DICE unit. At the completion of the startup the concentrations were steady at 22,000 ppmv and a flow rate of 149 CFM yielding and average mass removal rate of 39 pounds per hour. This mass removal if maintained equates to a contaminant recovery rate of approximately 5.6 gallons per hour, 134 gallons per day, 938 gallons per week, and 4,020 gallons per 30 day period.

The emissions on the DICE unit were measured and recorded during startup. The hydrocarbon measured 3 to 6 ppmv on engine one and 4 to 8 ppmv on engine two. At 8 ppmv the destruction efficiency is 99.96%. The Carbon Dioxide readings were below 0.01% on both engines. The vacuums recorded in the extraction wells (in inches of water) at the end of the startup phase were EV-1 = 35.2, EV-2 = 45, and EV-4 = 53. The vacuum on the DICE inlet was at 90 inches of water. EcoVac personnel are scheduled to do the normal monthly maintenance on the DICE unit on December 11-12, 2008.

Sincerely,

David M. Goodrich, PG
Project Manager

105 Weatherstone Drive, Suite 610 – Woodstock, Georgia 30188
(770) 592-1001 - Fax (770) 592-1801
www.ecovacservices.com

December 19, 2008, EcoVac Report

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December 19, 2008

Kerry Mattox, ELMCO
Cc: William Penny, T. Dwight Hinch, Chris Scott; Ed Ossi
Subject: **Summary of Monthly DICE Operations at ELMCO Facility, Franklin, TN**

We have completed the first monthly servicing of the DICE unit at your facility. The service was performed on December 11-12, 2008. The continuous remediation phase with the DICE unit began on November 21, 2008. The DICE unit did not operate for three days this month (November 22-25, 2008) and your lease rate was reduced, based on our contract, such that you were not charged for those three days.

At the start of the lease period the DICE unit was removing approximately 35 pounds per hour of volatile organic compounds (VOC's) consisting of a mixture of acetone and toluene. At the time the first service was completed on December 19, 2008 the mass removal rate of VOC's had decreased to 22 pounds per hour. Based on these data the mass of VOC's removed during this period was approximately 1,673 equivalent gallons of acetone/toluene liquid. This calculation used an average VOC mass removal rate of 28.5 pounds per hour for 408 hours yielding 11,628 pounds at 6.95 pounds per gallon. During this period your removal cost was approximately $6.00 per gallon to which you would have to add your propane cost. The DICE destruction efficiency is running at approximately 99.94 percent based on our Horiba measurements.

It is anticipated that EcoVac personnel will return to your facility to perform service and collect data on January 8-9, 2009. If the mass removal rate has decreased below 17.5 pounds per hour by this date we will shut off one ICE and leave one running to reduce the propane usage.

Starting with the initial well testing in June of this year through December 12, 2008, data collected by EcoVac Services indicate that EFR® and DICE operations have removed and destroyed approximately 2,863 equivalent gallons of acetone/toluene from the source area. We are pleased with the progress to date and appreciate the opportunity to assist you on this project.

Sincerely,

David M. Goodrich, PG
Project Manager

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January 21, 2009, EcoVac Report

ECOVAC SERVICES

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January 21, 2009

Kerry Mattox, ELMCO
Cc: William Penny, T. Dwight Hinch, Chris Scott; Ed Ossi
Subject: **Summary of Monthly DICE Operations at ELMCO Facility, Franklin, TN**

We have completed the second monthly servicing of the DICE unit at your facility. The service was performed on January 8-9, 2009. The continuous remediation phase with the DICE unit began on November 21, 2008. The DICE unit did not operate for five days this month (December 24-28, 2008) and your lease rate was reduced, based on our contract, such that you were not charged for those five days. It is anticipated that EcoVac personnel will return to your facility to perform service and collect data on February 9-10, 2009.

The previous monthly summary letter detailed the mass removal since the completion of the startup phase and the beginning of the continuous operation phase of the DICE unit on November 25, 2008. From 11/25/08 to 12/12/08 the DICE removed 11,629 pounds (1,673 equivalent gallons of acetone/toluene vapors. From 12/13/08 to 12/19/08 the DICE removed 2,999 pounds (431 equivalent gallons). From 12/20/08 to 12/23/08 the DICE removed 1,227 pounds (177 equivalent gallons). From 12/29/08 to 1/8/09 the DICE removed 1,896 pounds (272 equivalent gallons).

The of mass removal rate (MRR) has continued to decline as expected, starting at 35 pounds per hour on 11/25/08. On 12/12/08 the MRR was 22 pounds per hour, on 12/19/08 the MRR was 13.7 pounds per hour, on 12/23/08 the MRR was 11.85 pounds per hour, on 12/29/08 the MRR was 10 pounds per hour, on 1/8/09 the MRR was 5.8 pounds per hour.

During the January 2009 maintenance visit EcoVac performed short well tests on EV-3 yielding 5,000 ppmv at 74 CFM (4.4 pounds per hour) and on EV-5 yielding 3,200 ppmv at 70 CFM (2.6 pounds per hour). Based on these data the EV-3 was added to the extraction array such that at the end of the maintenance visit the MRR was 6000 ppmv at 86.7 CFM (6.2 pounds per hour) with extraction from EV-1, EV-2, EV-3 and EV-4 simultaneously.

Starting with the initial well testing in June of this year through January 8, 2009, data collected by EcoVac Services indicate that EFR® and DICE operations have removed and destroyed approximately 3,743 equivalent gallons of acetone/toluene from the source area. We are pleased with the progress to date and appreciate the opportunity to assist you on this project.

Sincerely,

David M. Goodrich, PG
Project Manager

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February 20, 2009, EcoVac Report

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February 20, 2009

Kerry Mattox, ELMCO
Cc: William Penny, T. Dwight Hinch, Chris Scott; Ed Ossi
Subject: **Summary of Monthly DICE Operations at ELMCO Facility, Franklin, TN**

We have completed the third monthly servicing of the DICE unit at your facility. The service was performed on February 10, 2009. The continuous remediation phase with the DICE unit began on November 21, 2008. The DICE unit did not operate for three days this month (January 21-22, and February 2, 2009) and your lease rate was reduced, based on our contract, such that you were not charged for those three days. The existing lease expires as of February 21, 2009.

The previous monthly summary letter detailed the mass removal since the completion of the startup phase and the beginning of the continuous operation phase of the DICE unit on November 25, 2008. From 11/25/08 to 12/12/08 the DICE removed 11,629 pounds (1,673 equivalent gallons of acetone/toluene vapors. From 12/13/08 to 12/19/08 the DICE removed 2,999 pounds (431 equivalent gallons). From 12/20/08 to 12/23/08 the DICE removed 1,227 pounds (177 equivalent gallons). From 12/29/08 to 1/8/09 the DICE removed 1,896 pounds (272 equivalent gallons). From 1/9/09 to 2/10/09 the DICE removed 4,495 pounds (647 equivalent gallons).

The of mass removal rate (MRR) has continued to decline as expected, starting at 35 pounds per hour on 11/25/08. On 12/12/08 the MRR was 22 pounds per hour, on 12/19/08 the MRR was 13.7 pounds per hour, on 12/23/08 the MRR was 11.85 pounds per hour, on 12/29/08 the MRR was 10 pounds per hour, on 1/8/09 the MRR was 5.8 pounds per hour. Upon adding well EV-3 to the extraction array on 1/8/09 the MRR increased to 6.2 pounds per hour on 1/9/09 and increased to 6.9 pounds per hour on 2/3/09 and then decreased to 3.8 pounds per hour on 2/10/09.

Starting with the initial well testing in June of this year through February 10, 2009, data collected by EcoVac Services indicate that EFR® and DICE operations have removed and destroyed approximately 4,390 equivalent gallons of acetone/toluene from the source area. We are pleased with the progress to date and appreciate the opportunity to assist you on this project.

Sincerely,

David M. Goodrich, PG
Project Manager

105 Weatherstone Drive, Suite 610 – Woodstock, Georgia 30188
(770) 592-1001 - Fax (770) 592-1801
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April 21, 2009, EcoVac Report

ECOVAC SERVICES
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April 21, 2009

Kerry Mattox, ELMCO
Cc: William Penny, T. Dwight Hinch, Chris Scott; Ed Ossi
Subject: **Summary of Monthly DICE Operations at ELMCO Facility, Franklin, TN**

We have completed the monthly servicing of the DICE unit at your facility following the restart of the unit for continuous extraction on March 19, 2009. The service was performed on April 20 and 21, 2009. The DICE unit did not operate between February 21, 2009 and March 19, 2009 during which time six new EV wells (EV-6 through 11) were installed and tested. The DICE unit did not operate for three days this month (April 6, 7, and 8, 2009) and your lease rate was reduced, based on our contract, such that you were not charged for those three days.

Starting with the initial well testing by EcoVac in June of 2008 through February 10, 2009, data collected by EcoVac Services indicate that EFR® and DICE operations have removed and destroyed approximately 4,390 equivalent gallons of acetone/toluene from the source area. Between February 10 and 21, 2009 the DICE removed 1003 pounds (144 equivalent gallons). After the new wells were installed, the well testing phase using EFR® (March 16, 17, and 18, 2009) removed 353 pounds (51 equivalent gallons). A twenty-hour DICE test using both engines (3/18-19/2009) followed the well testing with EFR® and removed 260 pounds (37 equivalent gallons).

The testing having been completed, (see EcoVac report of March 26, 2009), the DICE was configured for continuous operation extracting from wells EV-1, 2, 4, 8, and 9 on March 19, 2009. The mass removal rate began at 8.3 pounds per hour (8,000 ppmv at 87 CFM). This MRR utilizing the new extraction well configuration indicates an increase of 118% (3.8 to 8.3 pounds per hour).

The DICE unit was not operational for three days (April 6-8, 2009) and was restarted on April 9, 2009 with a MRR of 5.3 pounds per hour (6,800 ppmv at 66 CFM). The average MRR for this period (3/19/09 to 4/9/09) was 6.8 pounds per hour for 432 hours of operation yielding a removal of 2,938 pounds (423 equivalent gallons). Prior to performing the routine servicing MRR data was collected on April 20, 2009. The MRR on this date was measured at 4.9 pounds per hour (4,400 ppmv at 93 CFM). The average MRR for the period (4/10/09 to 4/20/09) was 5.1 pounds per hour for 240 hours yielding a removal of 1,224 pounds (176 equivalent gallons). For the time period starting on 2/10/09 through 4/20/09 approximately 5,778 pounds (831 equivalent gallons) were removed by EFR® well testing and DICE operations.

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Based on this data the cumulative equivalent gallons removed by EFR® and DICE extraction at this facility through April 20, 2009 equals approximately 5,221 equivalent gallons. The next monthly servicing and data collection is scheduled for May 18-19, 2009. EcoVac appreciates the opportunity to provide remediation services to ELMCO on this project.

.

Sincerely,

David M. Goodrich, PG
Project Manager

May 18, 2009, EcoVac Report

ECOVAC SERVICES
The World Leader in Mobile Dual-Phase/Multi-Phase Extraction
Patented SURFAC®/ISCO-EFR®/COSOLV® Technologies

May 18, 2009

Kerry Mattox, ELMCO
Cc: William Penny, T. Dwight Hinch, Chris Scott; Ed Ossi
Subject: **Summary of Monthly DICE Operations at ELMCO Facility, Franklin, TN**

EcoVac Services Inc has completed operation of the DICE unit at your facility pursuant to your instructions on this date. The unit was shut off and removed from the site on May 18, 2009. The DICE unit did not operate for three days this month (April 29, 30, and May 19, 2009) and your lease rate was reduced, based on our contract, such that you were not charged for those three days.

Starting with the initial well testing by EcoVac in June of 2008 through May 18, 2009, data collected by EcoVac Services indicate that EFR® and DICE operations have removed and destroyed approximately 5,627 equivalent gallons of acetone/toluene from the source area.

The mass removal rate (MRR) data for the final monthly lease period is as follows. On April 20, 2009 the MRR was 4.9 pounds per hour (4,400 ppmv at 93 CFM); on May 1, 2009 the MRR was 5.4 pounds per hour (5,000 ppmv at 91 CFM); and prior to shutting down the DICE the MRR was 4.25 pounds per hour (3,800 ppmv at 94 CFM).

EcoVac Services appreciates the opportunity to assist you on this site with additional extraction and injection of surfactants and/or chemical oxidants should it be required.

Sincerely,

David M. Goodrich, PG
Project Manager

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Appendix 2

Source Area Vapor Extraction Wells and Soil Analytical Data

Boring Logs of EV Wells

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LOG OF BORING NO. AH-2 (EV-1)

Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Miller Drilling
Project No	07-ELM01-01	Date	7/15/08	**Driller**	Orlando Crenshaw
Boring Location	~ 9 ft south of GP-27, south side of former tank farm			**Geologist**	Chris Scott
Surface Elevation	665.6			**Rig**	CME-85
Refusal *Depth*	21	*Elev.*	644.6	**Auger Size**	4 ¼ inch ID
Footage Sampled	NA			**Bit Size**	6 ¼ inch auger
Top of Rock *Depth*	21	*Elev.*	644.6		
Began Coring *Depth*	NA	*Elev.*	NA		
Footage Cored	NA				
Bottom of Hole *Depth*	21	*Elev.*	644.6		

( ) Air Rotary (X) Power Auger ( ) Coring ( ) Geoprobe

Weather

High Temperature: 90°F Precip: none
Low Temperature: 65°F

Water Level

First Encountered: NA
On Completion: Dry 24 Hours: Dry

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	% Return	PID/OVM (ppm)	Descriptions and Remarks
Auger cuttings	0	4	--	> 3,000	Gravel and soil mix to ~ 1 ft, then Clay, silty, m. red br., sl. moist w/ strong solvent odor by 4 ft.
Split Spoon	4	6	100	>9,999	Clay, silty, sandy, m. yel. br., v. sl. moist w/ strong solvent odor
Auger cuttings	6	9	--	--	Ditto
Split Spoon	9	11	100	4,600	Clay, silty, m. yel. br., moist w/ strong solvent odor
Auger cuttings	11	21	--	--	Little recovery
					Set well EV-1, 15-ft screen from 6 to 21 ft bgs, sand to 4 ft, bentonite to 1 ft
					Sample AH-2 4-6 @ 1335
					Sample AH-2 9-11 @ 1345

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. AH-3 (EV-2)

Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Miller Drilling
Project No	07-ELM01-01	Date	7/16/08	**Driller**	Orlando Crenshaw
Boring Location	Near GP-25, south side of former tank farm			**Geologist**	Chris Scott
Surface Elevation	664.9			**Rig**	CME-85
Refusal *Depth*	22	*Elev.*	642.9	**Auger Size**	4 ¼ inch ID
Footage Sampled	NA			**Bit Size**	6 ¼ inch auger
Top of Rock *Depth*	22	*Elev.*	642.9		
Began Coring *Depth*	NA	*Elev.*	NA		
Footage Cored	NA				
Bottom of Hole *Depth*	22	*Elev.*	642.9		

( ) Air Rotary (X) Power Auger ( ) Coring ( ) Geoprobe

Weather

High Temperature: 90°F Precip: none
Low Temperature: 65°F

Water Level

First Encountered: NA
On Completion: Dry 24 Hours: Dry

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	% Return	PID/OVM (ppm)	Descriptions and Remarks
Auger cuttings	0	4	--	0.0	Concrete 0 – 0.3, then gravel to ~1 ft, then Clay, silty, m. yel br., sl. moist
Split Spoon	4	6	100	47.8	Ditto to 5 ft, then Clay, silty, m. to dk. yel. br., sl. moist
Auger cuttings	6	9	--	0.0	Ditto
Split Spoon	9	11	100	264	Clay, silty, m. yel. br., sl. moist w/ v. sl. solvent odor
Auger cuttings	11	22	--	high	Clay, silty, m. yel-red-br, sl. moist, few rock frags,, solvent odor, OVM >9,999 in parts (see log of GP-25)
					Set well EV-2, 15-ft screen from 7 to 22 ft bgs, sand to 5 ft, bentonite to 1 ft
					Sample AH-3 4-6 @ 1130
					Sample AH-3 9-11 @ 1140

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. AH-4 (EV-3)

Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Miller Drilling
Project No	07-ELM01-01	Date	7/16/08	**Driller**	Orlando Crenshaw
Boring Location	Near GP-26, south side of former tank farm			**Geologist**	Chris Scott
Surface Elevation	664.7			**Rig**	CME-85
Refusal *Depth*	19	*Elev.*	645.7	**Auger Size**	4 ¼ inch ID
Footage Sampled	NA			**Bit Size**	6 ¼ inch auger
Top of Rock *Depth*	19	*Elev.*	645.7		
Began Coring *Depth*	NA	*Elev.*	NA		
Footage Cored	NA				
Bottom of Hole *Depth*	19	*Elev.*	645.7		

( ) Air Rotary (X) Power Auger ( ) Coring ( ) Geoprobe

Weather

High Temperature: 90°F Precip: none
Low Temperature: 65°F

Water Level

First Encountered: NA
On Completion: Dry 24 Hours: Dry

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	% Return	PID/OVM (ppm)	Descriptions and Remarks
Auger cuttings	0	19	--	>9,999 on some cuttings	Clay, silty, br. to ~ 3 ft, then Clay, silty, m. to dk. yel. br., sl. moist, some moist zones, solvent odor (see log of GP-26)
					Set well EV-3, 15-ft screen from 3.5 to 18.5 ft bgs, sand to 1.5 ft, bentonite to 0.5 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. AH-5 (EV-4)

Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Miller Drilling
Project No	07-ELM01-01	Date	7/16/08	**Driller**	Orlando Crenshaw
Boring Location	Near GP-27, south side of former tank farm			**Geologist**	Chris Scott
Surface Elevation	664.9			**Rig**	CME-85
Refusal *Depth*	22	*Elev.*	642.9	**Auger Size**	4 ¼ inch ID
Footage Sampled	NA			**Bit Size**	6 ¼ inch auger
Top of Rock *Depth*	22	*Elev.*	642.9		
Began Coring *Depth*	NA	*Elev.*	NA		
Footage Cored	NA				
Bottom of Hole *Depth*	22	*Elev.*	642.9		

( ) Air Rotary (X) Power Auger ( ) Coring ( ) Geoprobe

Weather

High Temperature: 90°F Precip: none
Low Temperature: 65°F

Water Level

First Encountered: NA
On Completion: Dry 24 Hours: Dry

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	% Return	PID/OVM (ppm)	Descriptions and Remarks
Auger cuttings	0	22	--	>9,999 on some cuttings	0 to 3 ft, Clay, silty, dk. br., wet
					3 to 15, Clay, silty, .m br. to dk. yel. br., v.moist, solvent odor, then Clay, silty, dk. yel. br., moist, solvent odor (see log of GP-27)
					Set well EV-4, 15-ft screen from 7 to 22 ft bgs, sand to 4.7 ft, bentonite to 1 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. AH-6 (EV-5)

Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Miller Drilling
Project No	07-ELM01-01	Date	7/16/08	**Driller**	Orlando Crenshaw
Boring Location	Near GP-28, south side of former tank farm			**Geologist**	Chris Scott
Surface Elevation	665.0			**Rig**	CME-85
Refusal *Depth*	20.5	*Elev.*	644.5	**Auger Size**	4 ¼ inch ID
Footage Sampled	NA			**Bit Size**	6 ¼ inch auger
Top of Rock *Depth*	20.5	*Elev.*	644.5		
Began Coring *Depth*	NA	*Elev.*	NA		
Footage Cored	NA				
Bottom of Hole *Depth*	20.5	*Elev.*	644.5		

( ) Air Rotary (X) Power Auger ( ) Coring ( ) Geoprobe

Weather

High Temperature: 90°F Precip: none
Low Temperature: 65°F

Water Level

First Encountered: NA
On Completion: Dry 24 Hours: Dry

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	% Return	PID/OVM (ppm)	Descriptions and Remarks
Auger cuttings	0	20.5	--	>9,999 on some cuttings	0 to 0.5 ft, mix of concrete rubble and Clay, dk. br., silty
					0.5 to 3, Clay, silty, .m to dk. br. moist to v.moist, solvent odor, then Clay, silty, dk. yel. br., moist to v. moist, solvent odor (see log of GP-28)
					Set well EV-5, 15-ft screen from 5.5 to 20.5 ft bgs, sand to 3 ft, bentonite to 0.5 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. EV-6
Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Boart Longyear
Project No	07-ELM01-01	Date	3/10/09	**Driller**	Jason Greer
Boring Location	Approx. 15 ft west of EV-3			**Geologist**	Chris Scott
Surface Elevation	Approx. 664			**Rig**	MiniSonic
Refusal *Depth*	NA	*Elev.*	NA	**Auger Size**	NA
Footage Sampled	NA			**Bit Size**	6 inch
Top of Rock *Depth*	21	*Elev.*	Approx. 643		
Began Coring *Depth*	0	*Elev.*	Approx 664		
Footage Cored	NA				
Bottom of Hole *Depth*	28	*Elev.*	Approx. 643		

( ) Air Rotary ( ) Power Auger ( ) Coring ( ) Geoprobe (X) Sonic

Weather

High Temperature: 80°F Precip: none
Low Temperature: 65°F

Water Level

First Encountered: NA
On Completion: Dry 24 Hours: Dry

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	Recovery	PID/OVM (ppm)	Descriptions and Remarks
Sonic Core	0	5	4 ft	11.2 @ 2 ft	0 to 0.5, Asphalt and gravel, then 0.5 to 4 Clay, silty, m. br., organics (roots) in upper 1 ft, then 4 to 4.5 Clay, silty, dk. yel. br. w/ chert frags
				1.1 @ 4 ft	
Sonic Core	5	10	5 ft	86.0 @ 6ft	5 to 15 Clay, silty, sandy, m. yel. br., moist
				0.4 @ 8ft	
Sonic Core	10	20		0.5 @ 10ft	
				-- @ 12ft	
				-- @ 14ft	15 to 19 Clay, silty, m. yel. br., moist
				0.9 @ 16ft	
				21 @ 18ft	19 to 21 Clay, sandy, silty, m. yel. br. to lt. gray, moist
Sonic Core	20	28		1,500 @ 20ft	
				>9,999 @ 21ft	Rock at 21 ft. Limestone, soft drilling at 22 – 22.5, 23 – 23.5, 24 to 25, hard drilling to 28
				673 @ 24ft	
				103 @ 26ft	
					Sample EV-6 19 – 20 @ 8:20
					Set EV-6 10 ft screen 17 to 27 ft, sand to 14.5 ft, bentonite to 1 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. EV-7
Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Boart Longyear
Project No	07-ELM01-01	Date	3/10/09	**Driller**	Jason Greer
Boring Location	Approx. 5 ft west of EV-3			**Geologist**	Chris Scott
Surface Elevation	Approx. 665			**Rig**	MiniSonic
Refusal *Depth*	NA	*Elev.*	NA	**Auger Size**	NA
Footage Sampled	NA			**Bit Size**	6 inch
Top of Rock *Depth*	20.5	*Elev.*	Approx. 644.5		
Began Coring *Depth*	0	*Elev.*	Approx 665		
Footage Cored	NA				
Bottom of Hole *Depth*	27	*Elev.*	Approx. 638		

( ) Air Rotary ( ) Power Auger ( ) Coring ( ) Geoprobe (X) Sonic

Weather

High Temperature: 80°F Precip: none
Low Temperature: 65°F

Water Level

First Encountered: NA
On Completion: Dry 24 Hours: Dry

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	Recovery	PID/OVM (ppm)	Descriptions and Remarks
Sonic Core	0	5	4 ft	3,200 @ 3ft	0 to 0.5, Asphalt and gravel, then 0.5 to 4 Clay, silty, dk. gray, moist then 4 to 5 Clay, sandy, silty, m. yel. br. w/ solvent odor
				10 @ 4 ft	
Sonic Core	5	9	4 ft	>9,999 @ 5ft	Ditto to 9 ft. Rock at 9 ft. Moved 2 ft north.
				21 @ 8 ft	
Sonic Core	0	5	5 ft	33 @ 2ft	0 to 0.5, Asphalt and gravel, then 0.5 to 4 Clay, silty, m. yel. br., w/chert, moist then 4 to 5 Clay, silty, m. br., sl. moist
				0.2 @ 4ft	
Sonic Core	5	7	2 ft	43 @ 5ft	Rock at 6 ft. Fracture at 6.5. Stopped at 7. Moved 3 ft SW toward EV-3
Sonic Core	0	5	5 ft	2.3 @ 2ft	0 to 0.5, Asphalt and gravel, then 0.5 to 2 Clay, silty, dk. br., sl. moist then 2 to 5 Clay, silty, m. yel. br., sl. moist
				0.6 @ 4ft	
Sonic Core	5	10	5 ft	1,159 @ 6ft	Clay, silty, sandy, m. yel. br., sl. moist
				783 @ 8ft	
				9.7 @ 10ft	
Sonic Core	10	20	10 ft	>5,000 @ 18ft	Clay, silty, yel. br., moist w/ some chert
				>9,999 @ 19ft	Sample EV-7 19 – 20 @ 17:10
Sonic Core	20	27	7 ft	4,000 – 7,000 @ 20 – 24 ft	Rock at 20.5. Soft Drilling 22 – 23 ft.
				4,000 – 6,000 @ 24 – 27 ft	
					Set EV-7 10 ft screen 17 to 27 ft, sand to 15 ft, bentonite to 1 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. EV-8
Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Boart Longyear
Project No	07-ELM01-01	Date	3/11/09	**Driller**	Jason Greer
Boring Location	Approx. 3.5 ft west of EV-4			**Geologist**	Chris Scott
Surface Elevation	Approx. 665			**Rig**	MiniSonic
Refusal *Depth*	NA	*Elev.*	NA	**Auger Size**	NA
Footage Sampled	NA			**Bit Size**	6 inch
Top of Rock *Depth*	21	*Elev.*	Approx. 644		
Began Coring *Depth*	0	*Elev.*	Approx 665		
Footage Cored	NA				
Bottom of Hole *Depth*	32	*Elev.*	Approx. 633		

( ) Air Rotary ( ) Power Auger ( ) Coring ( ) Geoprobe (X) Sonic

Weather

High Temperature: 50°F Precip: Tr
Low Temperature: 45°F

Water Level

First Encountered: ~ 30 ft
On Completion: 26.5 24 Hours: --

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	Recovery	PID/OVM (ppm)	Descriptions and Remarks
Sonic Core	0	5	3 ft	>3,000 @ 2ft	0 to 0.5, Asphalt and gravel, then 0.5 to 2 Clay, silty, m. br., organics (roots), then 2 to 5 Clay, silty, m. yel. br.
				>9,999 @ 4ft	
Sonic Core	5	10	5 ft	1,500 @ 6ft	5 to 6 Clay, silty, m. yel. br.
				197 @ 8 ft	6 to 21 Clay, sandy, silty, m. yel. br., varying sand, some rock frags, v. moist to moist
Sonic Core	10	20		373 @ 10ft	
				150 @ 12ft	
				2,500 @ 14ft	
				>9,999 @ 16ft	
				>9,999 @ 18ft	
Sonic Core	20	24		>9,999 @ 20ft	Sample EV-8 21 @ 8:30
				1,216 @ 22ft	Rock at 21 ft. Limestone, soft drilling at 22.5 – 23.5, 25 – 25.5, fractures at 30 and 31
				6,000 @ 24ft	Water level 26.5 at completion, bailed ~1.5 gals, water level ~28.5
				125 @ 27ft	
				1,416 @ 32ft	
					Set EV-8 15 ft screen 15 to 30 ft, sand to 13 ft, bentonite to <1 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. EV-9
Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Boart Longyear
Project No	07-ELM01-01	Date	3/11/09	**Driller**	Jason Greer
Boring Location	Approx. 7 ft southeast of EV-2			**Geologist**	Chris Scott
Surface Elevation	Approx. 665			**Rig**	MiniSonic
Refusal *Depth*	NA	*Elev.*	NA	**Auger Size**	NA
Footage Sampled	NA			**Bit Size**	6 inch
Top of Rock *Depth*	25	*Elev.*	Approx. 640		
Began Coring *Depth*	0	*Elev.*	Approx 665		
Footage Cored	NA				
Bottom of Hole *Depth*	27	*Elev.*	Approx. 638		

( ) Air Rotary ( ) Power Auger ( ) Coring ( ) Geoprobe (X) Sonic

Weather

High Temperature: 50°F Precip: Tr
Low Temperature: 45°F

Water Level

First Encountered: NA
On Completion: -- 24 Hours: --

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	Recovery	PID/OVM (ppm)	Descriptions and Remarks
Sonic Core	0	5	3.5 ft	36.3 @ 2ft	0 to 0.5, Asphalt, concrete and gravel, then 0.5 to 1 Clay, silty, m. br., moist, then 1 to 5 Clay, silty, sandy, m. yel. br., sl. moist to moist
				11.5 @ 4ft	
Sonic Core	5	10	5 ft	-- @ 6ft	5 to 10 Clay, silty, sandy, m. yel. br., sl. moist to moist, less sand from 8 to 10. Sample EV-9 9-10 @ 11:15
				80.3 @ 8 ft	6 to 21 Clay, sandy, silty, m. yel. br., varying sand, some rock frags, v. moist to moist
Sonic Core	10	20	7 ft	123 @ 10ft	Clay, sandy, silty, moist
				-- @ 12ft	
				266 @ 14ft	
				267 @ 16ft	
				289 @ 18ft	
Sonic Core	20	25	4 ft	>6,000 @ 20ft	Clay, sandy, silty, moist to 24 ft, then Clay, sandy, dk. yel. br. w/ rock frags. Sample EV-9 25 @ 11:30
				>9,999 @ 22ft	
				>9,999 @ 24ft	
Sonic Core	25	27	2 ft	1,500 @ 26ft	Rock at 25 ft. Limestone. No drilling breaks to 27. Dry.
				144 @ 27ft	
					Set EV-9 10 ft screen 16 to 26 ft, sand to 14 ft, bentonite to 1 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

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LOG OF BORING NO. EV-10
Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Boart Longyear
Project No	07-ELM01-01	Date	3/11/09	**Driller**	Jason Greer
Boring Location	Approx. 7 ft southeast of EV-2			**Geologist**	Chris Scott
Surface Elevation	Approx. 665			**Rig**	MiniSonic
Refusal *Depth*	NA	*Elev.*	NA	**Auger Size**	NA
Footage Sampled	NA			**Bit Size**	6 inch
Top of Rock *Depth*	29	*Elev.*	Approx. 636		
Began Coring *Depth*	0	*Elev.*	Approx 665		
Footage Cored	NA				
Bottom of Hole *Depth*	32	*Elev.*	Approx. 633		

( ) Air Rotary ( ) Power Auger ( ) Coring ( ) Geoprobe (X) Sonic

Weather

High Temperature: 50°F Precip: Tr
Low Temperature: 45°F

Water Level

First Encountered: 25
On Completion: -- 24 Hours: --

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	Recovery	PID/OVM (ppm)	Descriptions and Remarks
Sonic Core	0	5	4 ft	>9,999 @ 2ft	0 to 0.5, Asphalt and gravel, then 0.5 to 2 Clay, silty, m. to dk. br.,w organics (roots), sl. moist, then 2 to 5 Clay, sandy, silty, m. yel. br., sl. moist
				>3,700 @ 4ft	Sample EV-10 5 @ 13:30
Sonic Core	5	10	5 ft	155 @ 6ft	Ditto, to v. moist. Sample EV-10 10 @ 13:35
				540 @ 8 ft	
Sonic Core	10	20	6 ft	560 @ 10ft	Ditto, rock frags toward bottom
				-- @ 12ft	
				-- @ 14ft	
				3,400 @ 16ft	
				507 @ 18ft	
Sonic Core	20	25	3 ft	>6,800 @ 20ft	Ditto, moist to v. moist to 24, then more sand w/ rock frags. Very soft drilling 20 to 25 ft. Possible soil void.
				>9,999 @ 23ft	
				>9,999 @ 25ft	
Sonic Core	25	29	4 ft	>9,999 @ 27ft	Clay, sandy, lt. to dk. gray w/ rock frags, wet
Sonic Core	29	30	1 ft	>9,999 @ 29ft	Rock at 29 ft. Limestone. No drilling breaks to 32. Dry.
Sonic Core	30	32	2 ft	2,500 @ 30ft	Set EV-10 10 ft screen 20 to 30 ft, sand to 17.5 ft, bentonite to <1 ft
					Took 39 bags of sand.

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

TriAD Environmental Consultants
207 Donelson Pike, Suite 200
Nashville, TN 37214
(615) 889-6888

LOG OF BORING NO. EV-11
Sheet 1 of 1

Project	ELMCO			**Drilling Co.**	Boart Longyear
Project No	07-ELM01-01	Date	3/11/09	**Driller**	Jason Greer
Boring Location	Approx. 10 ft east of EV-5			**Geologist**	Chris Scott
Surface Elevation	Approx. 665			**Rig**	MiniSonic
Refusal *Depth*	NA	*Elev.*	NA	**Auger Size**	NA
Footage Sampled	NA			**Bit Size**	6 inch
Top of Rock *Depth*	20.5	*Elev.*	Approx. 644.5		
Began Coring *Depth*	0	*Elev.*	Approx 665		
Footage Cored	NA				
Bottom of Hole *Depth*	24	*Elev.*	Approx. 641		

( ) Air Rotary ( ) Power Auger ( ) Coring ( ) Geoprobe (X) Sonic

Weather

High Temperature: 50°F Precip: Tr
Low Temperature: 45°F

Water Level

First Encountered: NA
On Completion: -- 24 Hours: --

Sample Type / No.	Depth (ft bgs) From	Depth (ft bgs) To	Recovery	PID/OVM (ppm)	Descriptions and Remarks
Sonic Core	0	5	2 ft	127 @ 5ft	0 to 0.5, Asphalt and gravel, then 0.5 to 5 Clay, sandy, silty, m. yel. br., moist
Sonic Core	5	10	4 ft	6.7 @ 8ft	Clay, sandy, silty, m. yel. br., moist
				76 @ 10ft	Ditto, to v. moist. Sample EV-10 10 @ 13:35
				-- @ 12 ft	
Sonic Core	10	20	10 ft	746 @ 14ft	Ditto, rock frags
				36 @ 16ft	Sample EV-11 16 @ 16:25
				134 @ 18ft	
				>9,999 @ 20ft	
Sonic Core	20	24	4 ft		Rock at 20.5. No drilling breaks. Dry
					Set EV-11 5 ft screen 17 to 22 ft, sand to 13 ft, bentonite to <1 ft

Notes:
bgs – below ground surface.
asl – above sea level
ft – feet
btoc – below top of casing
m. – medium
ppm – parts per million
br - brown
yel - yellow
sl. – slightly

Soil Laboratory Report
January 2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

February 02, 2009 4:52:03PM

Client: Triad Env. Consultants (6921)
207 Donelson Pike, Suite 200
Nashville, TN 37214
Attn: Jason Unkefer

Work Order: NSA1538
Project Name: Triad Env. Consultants
Project Nbr: [none]
P/O Nbr:
Date Received: 01/22/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
BP-8 40-44	NSA1538-01	01/20/09 11:35
GP-29 23-25	NSA1538-02	01/21/09 14:45
GP-30 14-15	NSA1538-03	01/21/09 15:45

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Additional Laboratory Comments:
Samples received at 13.9 degrees Celsius.

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSA1538-01 (BP-8 40-44 - Soil) Sampled: 01/20/09 11:35								
General Chemistry Parameters								
% Dry Solids	**77.0**		%	0.500	1	01/26/09 09:46	SW-846	9012692
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**85.2**		mg/kg	21.8	200	01/27/09 16:18	SW846 8260B	9012636
Benzene	**0.00713**		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Bromobenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Bromochloromethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Bromodichloromethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Bromoform	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Bromomethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
2-Butanone	ND		mg/kg	0.0490	1	01/26/09 19:23	SW846 8260B	9012741
sec-Butylbenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
n-Butylbenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
tert-Butylbenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Carbon disulfide	ND		mg/kg	0.00490	1	01/26/09 19:23	SW846 8260B	9012741
Carbon Tetrachloride	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Chlorobenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Chlorodibromomethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Chloroethane	ND		mg/kg	0.00490	1	01/26/09 19:23	SW846 8260B	9012741
Chloroform	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Chloromethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
2-Chlorotoluene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
4-Chlorotoluene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.00490	1	01/26/09 19:23	SW846 8260B	9012741
1,2-Dibromoethane (EDB)	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Dibromomethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,4-Dichlorobenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,3-Dichlorobenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,2-Dichlorobenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Dichlorodifluoromethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,1-Dichloroethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,2-Dichloroethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
cis-1,2-Dichloroethene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,1-Dichloroethene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
trans-1,2-Dichloroethene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,3-Dichloropropane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,2-Dichloropropane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
2,2-Dichloropropane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
cis-1,3-Dichloropropene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
trans-1,3-Dichloropropene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,1-Dichloropropene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Ethylbenzene	**0.0259**		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Hexachlorobutadiene	ND		mg/kg	0.00490	1	01/26/09 19:23	SW846 8260B	9012741
2-Hexanone	ND		mg/kg	0.0490	1	01/26/09 19:23	SW846 8260B	9012741

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

ANALYTICAL REPORT

Sample ID: NSA1538-01 (BP-8 40-44 - Soil) - cont. Sampled: 01/20/09 11:35

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Isopropylbenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
p-Isopropyltoluene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Methyl tert-Butyl Ether	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Methylene Chloride	ND		mg/kg	0.00980	1	01/26/09 19:23	SW846 8260B	9012741
4-Methyl-2-pentanone	ND		mg/kg	0.0490	1	01/26/09 19:23	SW846 8260B	9012741
Naphthalene	ND		mg/kg	0.00490	1	01/26/09 19:23	SW846 8260B	9012741
n-Propylbenzene	**0.00265**		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Styrene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Tetrachloroethene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Toluene	**282**		mg/kg	21.8	5000	01/27/09 16:49	SW846 8260B	9012636
1,2,3-Trichlorobenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,2,4-Trichlorobenzene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,1,2-Trichloroethane	ND		mg/kg	0.00490	1	01/26/09 19:23	SW846 8260B	9012741
1,1,1-Trichloroethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Trichloroethene	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Trichlorofluoromethane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,2,3-Trichloropropane	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,3,5-Trimethylbenzene	**0.0118**		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
1,2,4-Trimethylbenzene	**0.0718**		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Vinyl chloride	ND		mg/kg	0.00196	1	01/26/09 19:23	SW846 8260B	9012741
Xylenes, total	**0.0995**		mg/kg	0.00490	1	01/26/09 19:23	SW846 8260B	9012741
Surr: 1,2-Dichloroethane-d4 (41-150%)	*125 %*					*01/26/09 19:23*	*SW846 8260B*	*9012741*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*114 %*					*01/27/09 16:18*	*SW846 8260B*	*9012636*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*114 %*					*01/27/09 16:49*	*SW846 8260B*	*9012636*
Surr: Dibromofluoromethane (55-139%)	*107 %*					*01/26/09 19:23*	*SW846 8260B*	*9012741*
Surr: Dibromofluoromethane (55-139%)	*104 %*					*01/27/09 16:18*	*SW846 8260B*	*9012636*
Surr: Dibromofluoromethane (55-139%)	*104 %*					*01/27/09 16:49*	*SW846 8260B*	*9012636*
Surr: Toluene-d8 (57-148%)	*98 %*					*01/26/09 19:23*	*SW846 8260B*	*9012741*
Surr: Toluene-d8 (57-148%)	*112 %*					*01/27/09 16:18*	*SW846 8260B*	*9012636*
Surr: Toluene-d8 (57-148%)	*113 %*					*01/27/09 16:49*	*SW846 8260B*	*9012636*
Surr: 4-Bromofluorobenzene (58-150%)	*113 %*					*01/26/09 19:23*	*SW846 8260B*	*9012741*
Surr: 4-Bromofluorobenzene (58-150%)	*106 %*					*01/27/09 16:18*	*SW846 8260B*	*9012636*
Surr: 4-Bromofluorobenzene (58-150%)	*106 %*					*01/27/09 16:49*	*SW846 8260B*	*9012636*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSA1538-02 (GP-29 23-25 - Soil) Sampled: 01/21/09 14:45								
General Chemistry Parameters								
% Dry Solids	**74.2**		%	0.500	1	01/26/09 09:46	SW-846	9012692
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**49600**	PX	mg/kg	12000	250000	01/30/09 21:06	SW846 8260B	9013158
Benzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Bromobenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Bromochloromethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Bromodichloromethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Bromoform	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Bromomethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
2-Butanone	**66.3**	PX	mg/kg	9.56	200	01/29/09 20:14	SW846 8260B	9013425
sec-Butylbenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
n-Butylbenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
tert-Butylbenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Carbon disulfide	ND	PX	mg/kg	0.239	50	01/27/09 18:21	SW846 8260B	9012636
Carbon Tetrachloride	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Chlorobenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Chlorodibromomethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Chloroethane	ND	PX	mg/kg	0.239	50	01/27/09 18:21	SW846 8260B	9012636
Chloroform	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Chloromethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
2-Chlorotoluene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
4-Chlorotoluene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,2-Dibromo-3-chloropropane	ND	PX	mg/kg	0.239	50	01/27/09 18:21	SW846 8260B	9012636
1,2-Dibromoethane (EDB)	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Dibromomethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,4-Dichlorobenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,3-Dichlorobenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,2-Dichlorobenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Dichlorodifluoromethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,1-Dichloroethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,2-Dichloroethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
cis-1,2-Dichloroethene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,1-Dichloroethene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
trans-1,2-Dichloroethene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,3-Dichloropropane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,2-Dichloropropane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
2,2-Dichloropropane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
cis-1,3-Dichloropropene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
trans-1,3-Dichloropropene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,1-Dichloropropene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Ethylbenzene	ND	PX, RL1	mg/kg	0.382	200	01/29/09 20:14	SW846 8260B	9013425
Hexachlorobutadiene	ND	PX	mg/kg	0.239	50	01/27/09 18:21	SW846 8260B	9012636
2-Hexanone	ND	PX	mg/kg	2.39	50	01/27/09 18:21	SW846 8260B	9012636

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

ANALYTICAL REPORT

Sample ID: NSA1538-02 (GP-29 23-25 - Soil) - cont. Sampled: 01/21/09 14:45

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Isopropylbenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
p-Isopropyltoluene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Methyl tert-Butyl Ether	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Methylene Chloride	ND	PX	mg/kg	0.478	50	01/27/09 18:21	SW846 8260B	9012636
4-Methyl-2-pentanone	ND	PX	mg/kg	2.39	50	01/27/09 18:21	SW846 8260B	9012636
Naphthalene	ND	PX, RL1	mg/kg	0.956	200	01/29/09 20:14	SW846 8260B	9013425
n-Propylbenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Styrene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,1,1,2-Tetrachloroethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,1,2,2-Tetrachloroethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Tetrachloroethene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Toluene	**1140**	PX	mg/kg	95.6	50000	01/29/09 21:15	SW846 8260B	9013425
1,2,3-Trichlorobenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,2,4-Trichlorobenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,1,2-Trichloroethane	ND	PX	mg/kg	0.239	50	01/27/09 18:21	SW846 8260B	9012636
1,1,1-Trichloroethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Trichloroethene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Trichlorofluoromethane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,2,3-Trichloropropane	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,3,5-Trimethylbenzene	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
1,2,4-Trimethylbenzene	ND	PX, RL1	mg/kg	0.382	200	01/29/09 20:14	SW846 8260B	9013425
Vinyl chloride	ND	PX	mg/kg	0.0956	50	01/27/09 18:21	SW846 8260B	9012636
Xylenes, total	ND	PX, RL1	mg/kg	0.956	200	01/29/09 20:14	SW846 8260B	9013425
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*01/27/09 18:21*	*SW846 8260B*	*9012636*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*101 %*					*01/29/09 20:14*	*SW846 8260B*	*9013425*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*99 %*					*01/29/09 21:15*	*SW846 8260B*	*9013425*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*105 %*					*01/30/09 21:06*	*SW846 8260B*	*9013158*
Surr: Dibromofluoromethane (55-139%)	*101 %*					*01/27/09 18:21*	*SW846 8260B*	*9012636*
Surr: Dibromofluoromethane (55-139%)	*101 %*					*01/29/09 20:14*	*SW846 8260B*	*9013425*
Surr: Dibromofluoromethane (55-139%)	*102 %*					*01/29/09 21:15*	*SW846 8260B*	*9013425*
Surr: Dibromofluoromethane (55-139%)	*104 %*					*01/30/09 21:06*	*SW846 8260B*	*9013158*
Surr: Toluene-d8 (57-148%)	*103 %*					*01/27/09 18:21*	*SW846 8260B*	*9012636*
Surr: Toluene-d8 (57-148%)	*94 %*					*01/29/09 20:14*	*SW846 8260B*	*9013425*
Surr: Toluene-d8 (57-148%)	*94 %*					*01/29/09 21:15*	*SW846 8260B*	*9013425*
Surr: Toluene-d8 (57-148%)	*95 %*					*01/30/09 21:06*	*SW846 8260B*	*9013158*
Surr: 4-Bromofluorobenzene (58-150%)	*110 %*					*01/27/09 18:21*	*SW846 8260B*	*9012636*
Surr: 4-Bromofluorobenzene (58-150%)	*99 %*					*01/29/09 20:14*	*SW846 8260B*	*9013425*
Surr: 4-Bromofluorobenzene (58-150%)	*98 %*					*01/29/09 21:15*	*SW846 8260B*	*9013425*
Surr: 4-Bromofluorobenzene (58-150%)	*97 %*					*01/30/09 21:06*	*SW846 8260B*	*9013158*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSA1538-03 (GP-30 14-15 - Soil) Sampled: 01/21/09 15:45								
General Chemistry Parameters								
% Dry Solids	**69.8**		%	0.500	1	01/26/09 09:46	SW-846	9012692
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**5460**	PX	mg/kg	445	10000	01/29/09 21:45	SW846 8260B	9013425
Benzene	**0.00730**	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Bromobenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Bromochloromethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Bromodichloromethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Bromoform	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Bromomethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
2-Butanone	**9.91**	PX	mg/kg	4.45	100	01/29/09 18:12	SW846 8260B	9013425
sec-Butylbenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
n-Butylbenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
tert-Butylbenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Carbon disulfide	ND	PX	mg/kg	0.00454	1	01/27/09 17:20	SW846 8260B	9012636
Carbon Tetrachloride	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Chlorobenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Chlorodibromomethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Chloroethane	ND	PX	mg/kg	0.00454	1	01/27/09 17:20	SW846 8260B	9012636
Chloroform	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Chloromethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
2-Chlorotoluene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
4-Chlorotoluene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,2-Dibromo-3-chloropropane	ND	PX	mg/kg	0.00454	1	01/27/09 17:20	SW846 8260B	9012636
1,2-Dibromoethane (EDB)	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Dibromomethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,4-Dichlorobenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,3-Dichlorobenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,2-Dichlorobenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Dichlorodifluoromethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,1-Dichloroethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,2-Dichloroethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
cis-1,2-Dichloroethene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,1-Dichloroethene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
trans-1,2-Dichloroethene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,3-Dichloropropane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,2-Dichloropropane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
2,2-Dichloropropane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
cis-1,3-Dichloropropene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
trans-1,3-Dichloropropene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,1-Dichloropropene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Ethylbenzene	**0.156**	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Hexachlorobutadiene	ND	PX	mg/kg	0.00454	1	01/27/09 17:20	SW846 8260B	9012636
2-Hexanone	ND	PX	mg/kg	0.0454	1	01/27/09 17:20	SW846 8260B	9012636

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Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

ANALYTICAL REPORT

Sample ID: NSA1538-03 (GP-30 14-15 - Soil) - cont. Sampled: 01/21/09 15:45

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Isopropylbenzene	**0.00523**	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
p-Isopropyltoluene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Methyl tert-Butyl Ether	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Methylene Chloride	ND	PX	mg/kg	0.00907	1	01/27/09 17:20	SW846 8260B	9012636
4-Methyl-2-pentanone	ND	PX	mg/kg	4.45	100	01/29/09 18:12	SW846 8260B	9013425
Naphthalene	ND	PX	mg/kg	0.00454	1	01/27/09 17:20	SW846 8260B	9012636
n-Propylbenzene	**0.00531**	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Styrene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,1,1,2-Tetrachloroethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,1,2,2-Tetrachloroethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Tetrachloroethene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Toluene	**40.4**	PX	mg/kg	1.78	1000	01/29/09 18:42	SW846 8260B	9013425
1,2,3-Trichlorobenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,2,4-Trichlorobenzene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,1,2-Trichloroethane	ND	PX	mg/kg	0.00454	1	01/27/09 17:20	SW846 8260B	9012636
1,1,1-Trichloroethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Trichloroethene	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Trichlorofluoromethane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,2,3-Trichloropropane	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,3,5-Trimethylbenzene	**0.0131**	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
1,2,4-Trimethylbenzene	**0.0753**	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Vinyl chloride	ND	PX	mg/kg	0.00181	1	01/27/09 17:20	SW846 8260B	9012636
Xylenes, total	**1.86**	PX	mg/kg	0.445	100	01/29/09 18:12	SW846 8260B	9013425
Surr: 1,2-Dichloroethane-d4 (41-150%)	*115 %*					*01/27/09 17:20*	*SW846 8260B*	*9012636*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*101 %*					*01/29/09 18:12*	*SW846 8260B*	*9013425*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*101 %*					*01/29/09 18:42*	*SW846 8260B*	*9013425*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*96 %*					*01/29/09 21:45*	*SW846 8260B*	*9013425*
Surr: Dibromofluoromethane (55-139%)	*106 %*					*01/27/09 17:20*	*SW846 8260B*	*9012636*
Surr: Dibromofluoromethane (55-139%)	*100 %*					*01/29/09 18:12*	*SW846 8260B*	*9013425*
Surr: Dibromofluoromethane (55-139%)	*101 %*					*01/29/09 18:42*	*SW846 8260B*	*9013425*
Surr: Dibromofluoromethane (55-139%)	*101 %*					*01/29/09 21:45*	*SW846 8260B*	*9013425*
Surr: Toluene-d8 (57-148%)	*85 %*					*01/27/09 17:20*	*SW846 8260B*	*9012636*
Surr: Toluene-d8 (57-148%)	*96 %*					*01/29/09 18:12*	*SW846 8260B*	*9013425*
Surr: Toluene-d8 (57-148%)	*95 %*					*01/29/09 18:42*	*SW846 8260B*	*9013425*
Surr: Toluene-d8 (57-148%)	*96 %*					*01/29/09 21:45*	*SW846 8260B*	*9013425*
Surr: 4-Bromofluorobenzene (58-150%)	*113 %*					*01/27/09 17:20*	*SW846 8260B*	*9012636*
Surr: 4-Bromofluorobenzene (58-150%)	*96 %*					*01/29/09 18:12*	*SW846 8260B*	*9013425*
Surr: 4-Bromofluorobenzene (58-150%)	*98 %*					*01/29/09 18:42*	*SW846 8260B*	*9013425*
Surr: 4-Bromofluorobenzene (58-150%)	*101 %*					*01/29/09 21:45*	*SW846 8260B*	*9013425*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9012741	NSA1538-01	5.10	5.00	01/20/09 11:35	JRL	EPA 5035
SW846 8260B	9012636	NSA1538-01RE1	2.29	5.00	01/20/09 11:35	JRL	EPA 5035
SW846 8260B	9012636	NSA1538-01RE2	2.29	5.00	01/20/09 11:35	JRL	EPA 5035
SW846 8260B	9012636	NSA1538-02	5.23	5.00	01/23/09 09:42	JRL	EPA 5035
SW846 8260B	9013425	NSA1538-02RE1	5.23	5.00	01/23/09 09:42	JRL	EPA 5035
SW846 8260B	9013425	NSA1538-02RE2	5.23	5.00	01/23/09 09:42	JRL	EPA 5035
SW846 8260B	9013425	NSA1538-02RE3	5.23	5.00	01/23/09 09:42	JRL	EPA 5035
SW846 8260B	9013158	NSA1538-02RE4	5.23	5.00	01/23/09 09:42	JRL	EPA 5035
SW846 8260B	9012636	NSA1538-03	5.51	5.00	01/23/09 09:50	JRL	EPA 5035
SW846 8260B	9013425	NSA1538-03RE1	5.62	5.00	01/23/09 09:50	JRL	EPA 5035
SW846 8260B	9013425	NSA1538-03RE2	5.62	5.00	01/23/09 09:50	JRL	EPA 5035
SW846 8260B	9013425	NSA1538-03RE3	5.62	5.00	01/23/09 09:50	JRL	EPA 5035

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Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9012636-BLK1						
Acetone	<0.0250		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Benzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Bromobenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Bromochloromethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Bromodichloromethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Bromoform	<0.000530		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Bromomethane	<0.00157		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
2-Butanone	<0.00500		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
sec-Butylbenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
n-Butylbenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
tert-Butylbenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Carbon disulfide	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Carbon Tetrachloride	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Chlorobenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Chlorodibromomethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Chloroethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Chloroform	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Chloromethane	<0.000880		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
2-Chlorotoluene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
4-Chlorotoluene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2-Dibromo-3-chloropropane	<0.00100		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2-Dibromoethane (EDB)	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Dibromomethane	<0.000540		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,4-Dichlorobenzene	<0.000640		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,3-Dichlorobenzene	<0.000530		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2-Dichlorobenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Dichlorodifluoromethane	<0.000930		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,1-Dichloroethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2-Dichloroethane	<0.000800		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
cis-1,2-Dichloroethene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,1-Dichloroethene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
trans-1,2-Dichloroethene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,3-Dichloropropane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2-Dichloropropane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
2,2-Dichloropropane	<0.000420		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
cis-1,3-Dichloropropene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
trans-1,3-Dichloropropene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,1-Dichloropropene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Ethylbenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Hexachlorobutadiene	<0.000630		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
2-Hexanone	<0.00407		mg/kg	9012636	9012636-BLK1	01/27/09 15:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9012636-BLK1						
Isopropylbenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
p-Isopropyltoluene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Methyl tert-Butyl Ether	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Methylene Chloride	<0.00348		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
4-Methyl-2-pentanone	<0.00426		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Naphthalene	<0.00151		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
n-Propylbenzene	<0.000530		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Styrene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,1,1,2-Tetrachloroethane	<0.000500		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,1,2,2-Tetrachloroethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Tetrachloroethene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Toluene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2,3-Trichlorobenzene	<0.000660		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2,4-Trichlorobenzene	<0.000650		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,1,2-Trichloroethane	<0.00102		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,1,1-Trichloroethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Trichloroethene	<0.000280		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Trichlorofluoromethane	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2,3-Trichloropropane	<0.000550		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,3,5-Trimethylbenzene	<0.000670		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
1,2,4-Trimethylbenzene	<0.00127		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Vinyl chloride	<0.000710		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Xylenes, total	<0.00172		mg/kg	9012636	9012636-BLK1	01/27/09 15:16
Surrogate: 1,2-Dichloroethane-d4	121%			9012636	9012636-BLK1	01/27/09 15:16
Surrogate: Dibromofluoromethane	107%			9012636	9012636-BLK1	01/27/09 15:16
Surrogate: Toluene-d8	112%			9012636	9012636-BLK1	01/27/09 15:16
Surrogate: 4-Bromofluorobenzene	107%			9012636	9012636-BLK1	01/27/09 15:16
9012741-BLK1						
Acetone	<0.0250		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Benzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Bromobenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Bromochloromethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Bromodichloromethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Bromoform	<0.000530		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Bromomethane	<0.00157		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
2-Butanone	<0.00500		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
sec-Butylbenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
n-Butylbenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
tert-Butylbenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Carbon disulfide	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9012741-BLK1						
Carbon Tetrachloride	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Chlorobenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Chlorodibromomethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Chloroethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Chloroform	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Chloromethane	<0.000880		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
2-Chlorotoluene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
4-Chlorotoluene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2-Dibromo-3-chloropropane	<0.00100		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2-Dibromoethane (EDB)	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Dibromomethane	<0.000540		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,4-Dichlorobenzene	<0.000640		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,3-Dichlorobenzene	<0.000530		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2-Dichlorobenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Dichlorodifluoromethane	<0.000930		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,1-Dichloroethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2-Dichloroethane	<0.000800		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
cis-1,2-Dichloroethene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,1-Dichloroethene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
trans-1,2-Dichloroethene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,3-Dichloropropane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2-Dichloropropane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
2,2-Dichloropropane	<0.000420		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
cis-1,3-Dichloropropene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
trans-1,3-Dichloropropene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,1-Dichloropropene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Ethylbenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Hexachlorobutadiene	<0.000630		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
2-Hexanone	<0.00407		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Isopropylbenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
p-Isopropyltoluene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Methyl tert-Butyl Ether	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Methylene Chloride	<0.00348		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
4-Methyl-2-pentanone	<0.00426		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Naphthalene	<0.00151		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
n-Propylbenzene	<0.000530		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Styrene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,1,1,2-Tetrachloroethane	<0.000500		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,1,2,2-Tetrachloroethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Tetrachloroethene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Toluene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9012741-BLK1						
1,2,3-Trichlorobenzene	<0.000660		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2,4-Trichlorobenzene	<0.000650		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,1,2-Trichloroethane	<0.00102		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,1,1-Trichloroethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Trichloroethene	<0.000280		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Trichlorofluoromethane	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2,3-Trichloropropane	<0.000550		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,3,5-Trimethylbenzene	<0.000670		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
1,2,4-Trimethylbenzene	<0.00127		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Vinyl chloride	<0.000710		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Xylenes, total	<0.00172		mg/kg	9012741	9012741-BLK1	01/26/09 15:16
Surrogate: 1,2-Dichloroethane-d4	121%			9012741	9012741-BLK1	01/26/09 15:16
Surrogate: Dibromofluoromethane	109%			9012741	9012741-BLK1	01/26/09 15:16
Surrogate: Toluene-d8	113%			9012741	9012741-BLK1	01/26/09 15:16
Surrogate: 4-Bromofluorobenzene	109%			9012741	9012741-BLK1	01/26/09 15:16
9013158-BLK1						
Acetone	<0.0250		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Benzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Bromobenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Bromochloromethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Bromodichloromethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Bromoform	<0.000530		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Bromomethane	<0.00157		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
2-Butanone	<0.00500		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
sec-Butylbenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
n-Butylbenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
tert-Butylbenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Carbon disulfide	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Carbon Tetrachloride	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Chlorobenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Chlorodibromomethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Chloroethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Chloroform	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Chloromethane	<0.000880		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
2-Chlorotoluene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
4-Chlorotoluene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2-Dibromo-3-chloropropane	<0.00100		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2-Dibromoethane (EDB)	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Dibromomethane	<0.000540		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,4-Dichlorobenzene	<0.000640		mg/kg	9013158	9013158-BLK1	01/30/09 20:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9013158-BLK1						
1,3-Dichlorobenzene	<0.000530		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2-Dichlorobenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Dichlorodifluoromethane	<0.000930		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,1-Dichloroethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2-Dichloroethane	<0.000800		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
cis-1,2-Dichloroethene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,1-Dichloroethene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
trans-1,2-Dichloroethene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,3-Dichloropropane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2-Dichloropropane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
2,2-Dichloropropane	<0.000420		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
cis-1,3-Dichloropropene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
trans-1,3-Dichloropropene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,1-Dichloropropene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Ethylbenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Hexachlorobutadiene	<0.000630		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
2-Hexanone	<0.00407		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Isopropylbenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
p-Isopropyltoluene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Methyl tert-Butyl Ether	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Methylene Chloride	<0.00348		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
4-Methyl-2-pentanone	<0.00426		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Naphthalene	<0.00151		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
n-Propylbenzene	<0.000530		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Styrene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,1,1,2-Tetrachloroethane	<0.000500		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,1,2,2-Tetrachloroethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Tetrachloroethene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Toluene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2,3-Trichlorobenzene	<0.000660		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2,4-Trichlorobenzene	<0.000650		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,1,2-Trichloroethane	<0.00102		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,1,1-Trichloroethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Trichloroethene	<0.000280		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Trichlorofluoromethane	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2,3-Trichloropropane	<0.000550		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,3,5-Trimethylbenzene	<0.000670		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
1,2,4-Trimethylbenzene	<0.00127		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Vinyl chloride	<0.000710		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Xylenes, total	<0.00172		mg/kg	9013158	9013158-BLK1	01/30/09 20:05
Surrogate: 1,2-Dichloroethane-d4	111%			9013158	9013158-BLK1	01/30/09 20:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9013158-BLK1						
Surrogate: Dibromofluoromethane	103%			9013158	9013158-BLK1	01/30/09 20:05
Surrogate: Toluene-d8	93%			9013158	9013158-BLK1	01/30/09 20:05
Surrogate: 4-Bromofluorobenzene	99%			9013158	9013158-BLK1	01/30/09 20:05
9013425-BLK1						
Acetone	<0.0250		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Benzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Bromobenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Bromochloromethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Bromodichloromethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Bromoform	<0.000530		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Bromomethane	<0.00157		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
2-Butanone	<0.00500		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
sec-Butylbenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
n-Butylbenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
tert-Butylbenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Carbon disulfide	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Carbon Tetrachloride	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Chlorobenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Chlorodibromomethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Chloroethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Chloroform	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Chloromethane	<0.000880		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
2-Chlorotoluene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
4-Chlorotoluene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2-Dibromo-3-chloropropane	<0.00100		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2-Dibromoethane (EDB)	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Dibromomethane	<0.000540		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,4-Dichlorobenzene	<0.000640		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,3-Dichlorobenzene	<0.000530		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2-Dichlorobenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Dichlorodifluoromethane	<0.000930		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,1-Dichloroethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2-Dichloroethane	<0.000800		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
cis-1,2-Dichloroethene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,1-Dichloroethene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
trans-1,2-Dichloroethene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,3-Dichloropropane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2-Dichloropropane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
2,2-Dichloropropane	<0.000420		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
cis-1,3-Dichloropropene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9013425-BLK1						
trans-1,3-Dichloropropene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,1-Dichloropropene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Ethylbenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Hexachlorobutadiene	<0.000630		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
2-Hexanone	<0.00407		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Isopropylbenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
p-Isopropyltoluene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Methyl tert-Butyl Ether	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Methylene Chloride	<0.00348		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
4-Methyl-2-pentanone	<0.00426		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Naphthalene	<0.00151		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
n-Propylbenzene	<0.000530		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Styrene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,1,1,2-Tetrachloroethane	<0.000500		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,1,2,2-Tetrachloroethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Tetrachloroethene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Toluene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2,3-Trichlorobenzene	<0.000660		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2,4-Trichlorobenzene	<0.000650		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,1,2-Trichloroethane	<0.00102		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,1,1-Trichloroethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Trichloroethene	<0.000280		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Trichlorofluoromethane	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2,3-Trichloropropane	<0.000550		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,3,5-Trimethylbenzene	<0.000670		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
1,2,4-Trimethylbenzene	<0.00127		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Vinyl chloride	<0.000710		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Xylenes, total	<0.00172		mg/kg	9013425	9013425-BLK1	01/29/09 15:08
Surrogate: 1,2-Dichloroethane-d4	103%			9013425	9013425-BLK1	01/29/09 15:08
Surrogate: Dibromofluoromethane	104%			9013425	9013425-BLK1	01/29/09 15:08
Surrogate: Toluene-d8	97%			9013425	9013425-BLK1	01/29/09 15:08
Surrogate: 4-Bromofluorobenzene	101%			9013425	9013425-BLK1	01/29/09 15:08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters									
9012692-DUP1									
% Dry Solids	85.7	85.4		%	0.4	20	9012692	NSA1531-01	01/26/09 09:46

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9012636-BS1								
Acetone	250	257		ug/kg	103%	49 - 150	9012636	01/27/09 13:44
Benzene	50.0	50.7		ug/kg	101%	76 - 130	9012636	01/27/09 13:44
Bromobenzene	50.0	54.5		ug/kg	109%	80 - 128	9012636	01/27/09 13:44
Bromochloromethane	50.0	49.9		ug/kg	100%	70 - 135	9012636	01/27/09 13:44
Bromodichloromethane	50.0	50.6		ug/kg	101%	78 - 135	9012636	01/27/09 13:44
Bromoform	50.0	51.4		ug/kg	103%	67 - 143	9012636	01/27/09 13:44
Bromomethane	50.0	49.5		ug/kg	99%	58 - 150	9012636	01/27/09 13:44
2-Butanone	250	246		ug/kg	98%	61 - 143	9012636	01/27/09 13:44
sec-Butylbenzene	50.0	52.7		ug/kg	105%	80 - 134	9012636	01/27/09 13:44
n-Butylbenzene	50.0	57.2		ug/kg	114%	71 - 141	9012636	01/27/09 13:44
tert-Butylbenzene	50.0	51.6		ug/kg	103%	79 - 132	9012636	01/27/09 13:44
Carbon disulfide	50.0	53.6		ug/kg	107%	70 - 134	9012636	01/27/09 13:44
Carbon Tetrachloride	50.0	56.3		ug/kg	113%	75 - 137	9012636	01/27/09 13:44
Chlorobenzene	50.0	53.4		ug/kg	107%	80 - 121	9012636	01/27/09 13:44
Chlorodibromomethane	50.0	52.7		ug/kg	105%	77 - 130	9012636	01/27/09 13:44
Chloroethane	50.0	52.7		ug/kg	105%	62 - 149	9012636	01/27/09 13:44
Chloroform	50.0	54.3		ug/kg	109%	75 - 130	9012636	01/27/09 13:44
Chloromethane	50.0	39.7		ug/kg	79%	35 - 130	9012636	01/27/09 13:44
2-Chlorotoluene	50.0	55.9		ug/kg	112%	80 - 131	9012636	01/27/09 13:44
4-Chlorotoluene	50.0	58.8		ug/kg	118%	80 - 129	9012636	01/27/09 13:44
1,2-Dibromo-3-chloropropane	50.0	50.0		ug/kg	100%	62 - 142	9012636	01/27/09 13:44
1,2-Dibromoethane (EDB)	50.0	54.5		ug/kg	109%	81 - 130	9012636	01/27/09 13:44
Dibromomethane	50.0	52.7		ug/kg	105%	77 - 133	9012636	01/27/09 13:44
1,4-Dichlorobenzene	50.0	58.6		ug/kg	117%	75 - 128	9012636	01/27/09 13:44
1,3-Dichlorobenzene	50.0	58.7		ug/kg	117%	79 - 128	9012636	01/27/09 13:44
1,2-Dichlorobenzene	50.0	57.5		ug/kg	115%	80 - 130	9012636	01/27/09 13:44
Dichlorodifluoromethane	50.0	40.2		ug/kg	80%	11 - 129	9012636	01/27/09 13:44
1,1-Dichloroethane	50.0	52.9		ug/kg	106%	68 - 150	9012636	01/27/09 13:44
1,2-Dichloroethane	50.0	58.5		ug/kg	117%	72 - 132	9012636	01/27/09 13:44
cis-1,2-Dichloroethene	50.0	54.9		ug/kg	110%	77 - 132	9012636	01/27/09 13:44
1,1-Dichloroethene	50.0	52.6		ug/kg	105%	75 - 133	9012636	01/27/09 13:44
trans-1,2-Dichloroethene	50.0	53.1		ug/kg	106%	79 - 133	9012636	01/27/09 13:44
1,3-Dichloropropane	50.0	59.3		ug/kg	119%	80 - 125	9012636	01/27/09 13:44
1,2-Dichloropropane	50.0	47.3		ug/kg	95%	75 - 124	9012636	01/27/09 13:44
2,2-Dichloropropane	50.0	55.3		ug/kg	111%	59 - 144	9012636	01/27/09 13:44
cis-1,3-Dichloropropene	50.0	56.0		ug/kg	112%	80 - 137	9012636	01/27/09 13:44
trans-1,3-Dichloropropene	50.0	56.1		ug/kg	112%	75 - 133	9012636	01/27/09 13:44
1,1-Dichloropropene	50.0	55.7		ug/kg	111%	76 - 133	9012636	01/27/09 13:44
Ethylbenzene	50.0	55.2		ug/kg	110%	80 - 128	9012636	01/27/09 13:44
Hexachlorobutadiene	50.0	50.5		ug/kg	101%	60 - 150	9012636	01/27/09 13:44
2-Hexanone	250	305		ug/kg	122%	63 - 149	9012636	01/27/09 13:44

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9012636-BS1								
Isopropylbenzene	50.0	57.8		ug/kg	116%	74 - 131	9012636	01/27/09 13:44
p-Isopropyltoluene	50.0	52.7		ug/kg	105%	75 - 133	9012636	01/27/09 13:44
Methyl tert-Butyl Ether	50.0	53.6		ug/kg	107%	67 - 130	9012636	01/27/09 13:44
Methylene Chloride	50.0	50.0		ug/kg	100%	65 - 144	9012636	01/27/09 13:44
4-Methyl-2-pentanone	250	271		ug/kg	109%	64 - 142	9012636	01/27/09 13:44
Naphthalene	50.0	60.0		ug/kg	120%	63 - 144	9012636	01/27/09 13:44
n-Propylbenzene	50.0	55.3		ug/kg	111%	80 - 131	9012636	01/27/09 13:44
Styrene	50.0	58.4		ug/kg	117%	80 - 144	9012636	01/27/09 13:44
1,1,1,2-Tetrachloroethane	50.0	54.4		ug/kg	109%	80 - 129	9012636	01/27/09 13:44
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/kg	105%	73 - 139	9012636	01/27/09 13:44
Tetrachloroethene	50.0	61.4		ug/kg	123%	76 - 128	9012636	01/27/09 13:44
Toluene	50.0	56.5		ug/kg	113%	80 - 125	9012636	01/27/09 13:44
1,2,3-Trichlorobenzene	50.0	57.2		ug/kg	114%	64 - 136	9012636	01/27/09 13:44
1,2,4-Trichlorobenzene	50.0	63.5		ug/kg	127%	58 - 145	9012636	01/27/09 13:44
1,1,2-Trichloroethane	50.0	57.7		ug/kg	115%	80 - 127	9012636	01/27/09 13:44
1,1,1-Trichloroethane	50.0	54.7		ug/kg	109%	76 - 134	9012636	01/27/09 13:44
Trichloroethene	50.0	51.2		ug/kg	102%	75 - 131	9012636	01/27/09 13:44
Trichlorofluoromethane	50.0	60.5		ug/kg	121%	63 - 130	9012636	01/27/09 13:44
1,2,3-Trichloropropane	50.0	53.6		ug/kg	107%	66 - 129	9012636	01/27/09 13:44
1,3,5-Trimethylbenzene	50.0	55.5		ug/kg	111%	78 - 133	9012636	01/27/09 13:44
1,2,4-Trimethylbenzene	50.0	53.3		ug/kg	107%	76 - 135	9012636	01/27/09 13:44
Vinyl chloride	50.0	46.0		ug/kg	92%	58 - 134	9012636	01/27/09 13:44
o-Xylene	50.0	56.9		ug/kg	114%	79 - 131	9012636	01/27/09 13:44
m,p-Xylene	100	115		ug/kg	115%	78 - 131	9012636	01/27/09 13:44
Xylenes, total	150	172		ug/kg	115%	79 - 130	9012636	01/27/09 13:44
Diisopropyl Ether	50.0	55.4		ug/kg	111%	69 - 132	9012636	01/27/09 13:44
1,2-Dichloroethene (total)	100	108		ug/kg	108%	78 - 132	9012636	01/27/09 13:44
1,1,2-Trifluorotrichloroethane	50.0	61.4		ug/kg	123%	73 - 126	9012636	01/27/09 13:44
Surrogate: 1,2-Dichloroethane-d4	50.0	61.3			123%	41 - 150	9012636	01/27/09 13:44
Surrogate: Dibromofluoromethane	50.0	53.6			107%	55 - 139	9012636	01/27/09 13:44
Surrogate: Toluene-d8	50.0	55.0			110%	57 - 148	9012636	01/27/09 13:44
Surrogate: 4-Bromofluorobenzene	50.0	51.3			103%	58 - 150	9012636	01/27/09 13:44
Fluorobenzene	50.0	50.0		ug/kg	99%	50 - 200	9012636	01/27/09 13:44
Chlorobenzene-d5	50.0	50.0		ug/kg	94%	50 - 200	9012636	01/27/09 13:44
1,4-Dichlorobenzene-d4	50.0	50.0		ug/kg	97%	50 - 200	9012636	01/27/09 13:44
9012741-BS1								
Acetone	250	238		ug/kg	95%	49 - 150	9012741	01/26/09 13:10
Benzene	50.0	44.5		ug/kg	89%	76 - 130	9012741	01/26/09 13:10
Bromobenzene	50.0	46.3		ug/kg	93%	80 - 128	9012741	01/26/09 13:10
Bromochloromethane	50.0	44.3		ug/kg	89%	70 - 135	9012741	01/26/09 13:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9012741-BS1								
Bromodichloromethane	50.0	45.2		ug/kg	90%	78 - 135	9012741	01/26/09 13:10
Bromoform	50.0	46.3		ug/kg	93%	67 - 143	9012741	01/26/09 13:10
Bromomethane	50.0	41.3		ug/kg	83%	58 - 150	9012741	01/26/09 13:10
2-Butanone	250	229		ug/kg	92%	61 - 143	9012741	01/26/09 13:10
sec-Butylbenzene	50.0	46.4		ug/kg	93%	80 - 134	9012741	01/26/09 13:10
n-Butylbenzene	50.0	50.2		ug/kg	100%	71 - 141	9012741	01/26/09 13:10
tert-Butylbenzene	50.0	46.1		ug/kg	92%	79 - 132	9012741	01/26/09 13:10
Carbon disulfide	50.0	46.9		ug/kg	94%	70 - 134	9012741	01/26/09 13:10
Carbon Tetrachloride	50.0	48.0		ug/kg	96%	75 - 137	9012741	01/26/09 13:10
Chlorobenzene	50.0	45.2		ug/kg	90%	80 - 121	9012741	01/26/09 13:10
Chlorodibromomethane	50.0	47.0		ug/kg	94%	77 - 130	9012741	01/26/09 13:10
Chloroethane	50.0	46.2		ug/kg	92%	62 - 149	9012741	01/26/09 13:10
Chloroform	50.0	46.8		ug/kg	94%	75 - 130	9012741	01/26/09 13:10
Chloromethane	50.0	36.8		ug/kg	74%	35 - 130	9012741	01/26/09 13:10
2-Chlorotoluene	50.0	45.5		ug/kg	91%	80 - 131	9012741	01/26/09 13:10
4-Chlorotoluene	50.0	46.2		ug/kg	92%	80 - 129	9012741	01/26/09 13:10
1,2-Dibromo-3-chloropropane	50.0	45.0		ug/kg	90%	62 - 142	9012741	01/26/09 13:10
1,2-Dibromoethane (EDB)	50.0	47.4		ug/kg	95%	81 - 130	9012741	01/26/09 13:10
Dibromomethane	50.0	46.4		ug/kg	93%	77 - 133	9012741	01/26/09 13:10
1,4-Dichlorobenzene	50.0	46.0		ug/kg	92%	75 - 128	9012741	01/26/09 13:10
1,3-Dichlorobenzene	50.0	46.6		ug/kg	93%	79 - 128	9012741	01/26/09 13:10
1,2-Dichlorobenzene	50.0	47.0		ug/kg	94%	80 - 130	9012741	01/26/09 13:10
Dichlorodifluoromethane	50.0	40.9		ug/kg	82%	11 - 129	9012741	01/26/09 13:10
1,1-Dichloroethane	50.0	45.7		ug/kg	91%	68 - 150	9012741	01/26/09 13:10
1,2-Dichloroethane	50.0	50.5		ug/kg	101%	72 - 132	9012741	01/26/09 13:10
cis-1,2-Dichloroethene	50.0	47.5		ug/kg	95%	77 - 132	9012741	01/26/09 13:10
1,1-Dichloroethene	50.0	45.2		ug/kg	90%	75 - 133	9012741	01/26/09 13:10
trans-1,2-Dichloroethene	50.0	49.1		ug/kg	98%	79 - 133	9012741	01/26/09 13:10
1,3-Dichloropropane	50.0	43.5		ug/kg	87%	80 - 125	9012741	01/26/09 13:10
1,2-Dichloropropane	50.0	42.1		ug/kg	84%	75 - 124	9012741	01/26/09 13:10
2,2-Dichloropropane	50.0	47.4		ug/kg	95%	59 - 144	9012741	01/26/09 13:10
cis-1,3-Dichloropropene	50.0	51.0		ug/kg	102%	80 - 137	9012741	01/26/09 13:10
trans-1,3-Dichloropropene	50.0	50.3		ug/kg	101%	75 - 133	9012741	01/26/09 13:10
1,1-Dichloropropene	50.0	47.3		ug/kg	95%	76 - 133	9012741	01/26/09 13:10
Ethylbenzene	50.0	45.8		ug/kg	92%	80 - 128	9012741	01/26/09 13:10
Hexachlorobutadiene	50.0	53.5		ug/kg	107%	60 - 150	9012741	01/26/09 13:10
2-Hexanone	250	240		ug/kg	96%	63 - 149	9012741	01/26/09 13:10
Isopropylbenzene	50.0	48.9		ug/kg	98%	74 - 131	9012741	01/26/09 13:10
p-Isopropyltoluene	50.0	45.6		ug/kg	91%	75 - 133	9012741	01/26/09 13:10
Methyl tert-Butyl Ether	50.0	47.5		ug/kg	95%	67 - 130	9012741	01/26/09 13:10
Methylene Chloride	50.0	44.5		ug/kg	89%	65 - 144	9012741	01/26/09 13:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9012741-BS1								
4-Methyl-2-pentanone	250	262		ug/kg	105%	64 - 142	9012741	01/26/09 13:10
Naphthalene	50.0	50.8		ug/kg	102%	63 - 144	9012741	01/26/09 13:10
n-Propylbenzene	50.0	46.2		ug/kg	92%	80 - 131	9012741	01/26/09 13:10
Styrene	50.0	48.7		ug/kg	97%	80 - 144	9012741	01/26/09 13:10
1,1,1,2-Tetrachloroethane	50.0	46.5		ug/kg	93%	80 - 129	9012741	01/26/09 13:10
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/kg	92%	73 - 139	9012741	01/26/09 13:10
Tetrachloroethene	50.0	41.8		ug/kg	84%	76 - 128	9012741	01/26/09 13:10
Toluene	50.0	49.8		ug/kg	100%	80 - 125	9012741	01/26/09 13:10
1,2,3-Trichlorobenzene	50.0	47.7		ug/kg	95%	64 - 136	9012741	01/26/09 13:10
1,2,4-Trichlorobenzene	50.0	49.9		ug/kg	100%	58 - 145	9012741	01/26/09 13:10
1,1,2-Trichloroethane	50.0	41.3		ug/kg	83%	80 - 127	9012741	01/26/09 13:10
1,1,1-Trichloroethane	50.0	47.3		ug/kg	95%	76 - 134	9012741	01/26/09 13:10
Trichloroethene	50.0	44.1		ug/kg	88%	75 - 131	9012741	01/26/09 13:10
Trichlorofluoromethane	50.0	50.7		ug/kg	101%	63 - 130	9012741	01/26/09 13:10
1,2,3-Trichloropropane	50.0	42.1		ug/kg	84%	66 - 129	9012741	01/26/09 13:10
1,3,5-Trimethylbenzene	50.0	46.2		ug/kg	92%	78 - 133	9012741	01/26/09 13:10
1,2,4-Trimethylbenzene	50.0	44.2		ug/kg	88%	76 - 135	9012741	01/26/09 13:10
Vinyl chloride	50.0	42.2		ug/kg	84%	58 - 134	9012741	01/26/09 13:10
Xylenes, total	150	143		ug/kg	95%	79 - 130	9012741	01/26/09 13:10
Surrogate: 1,2-Dichloroethane-d4	50.0	63.2			126%	41 - 150	9012741	01/26/09 13:10
Surrogate: Dibromofluoromethane	50.0	53.4			107%	55 - 139	9012741	01/26/09 13:10
Surrogate: Toluene-d8	50.0	56.8			114%	57 - 148	9012741	01/26/09 13:10
Surrogate: 4-Bromofluorobenzene	50.0	51.4			103%	58 - 150	9012741	01/26/09 13:10
9013158-BS1								
Acetone	250	348		ug/kg	139%	49 - 150	9013158	01/30/09 18:32
Benzene	50.0	55.7		ug/kg	111%	76 - 130	9013158	01/30/09 18:32
Bromobenzene	50.0	48.0		ug/kg	96%	80 - 128	9013158	01/30/09 18:32
Bromochloromethane	50.0	56.1		ug/kg	112%	70 - 135	9013158	01/30/09 18:32
Bromodichloromethane	50.0	54.3		ug/kg	109%	78 - 135	9013158	01/30/09 18:32
Bromoform	50.0	57.5		ug/kg	115%	67 - 143	9013158	01/30/09 18:32
Bromomethane	50.0	62.6		ug/kg	125%	58 - 150	9013158	01/30/09 18:32
2-Butanone	250	320		ug/kg	128%	61 - 143	9013158	01/30/09 18:32
sec-Butylbenzene	50.0	50.8		ug/kg	102%	80 - 134	9013158	01/30/09 18:32
n-Butylbenzene	50.0	51.2		ug/kg	102%	71 - 141	9013158	01/30/09 18:32
tert-Butylbenzene	50.0	51.0		ug/kg	102%	79 - 132	9013158	01/30/09 18:32
Carbon disulfide	50.0	54.2		ug/kg	108%	70 - 134	9013158	01/30/09 18:32
Carbon Tetrachloride	50.0	54.4		ug/kg	109%	75 - 137	9013158	01/30/09 18:32
Chlorobenzene	50.0	51.4		ug/kg	103%	80 - 121	9013158	01/30/09 18:32
Chlorodibromomethane	50.0	51.9		ug/kg	104%	77 - 130	9013158	01/30/09 18:32
Chloroethane	50.0	52.4		ug/kg	105%	62 - 149	9013158	01/30/09 18:32

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9013158-BS1								
Chloroform	50.0	54.6		ug/kg	109%	75 - 130	9013158	01/30/09 18:32
Chloromethane	50.0	40.0		ug/kg	80%	35 - 130	9013158	01/30/09 18:32
2-Chlorotoluene	50.0	49.1		ug/kg	98%	80 - 131	9013158	01/30/09 18:32
4-Chlorotoluene	50.0	49.6		ug/kg	99%	80 - 129	9013158	01/30/09 18:32
1,2-Dibromo-3-chloropropane	50.0	55.6		ug/kg	111%	62 - 142	9013158	01/30/09 18:32
1,2-Dibromoethane (EDB)	50.0	51.9		ug/kg	104%	81 - 130	9013158	01/30/09 18:32
Dibromomethane	50.0	56.4		ug/kg	113%	77 - 133	9013158	01/30/09 18:32
1,4-Dichlorobenzene	50.0	51.4		ug/kg	103%	75 - 128	9013158	01/30/09 18:32
1,3-Dichlorobenzene	50.0	50.8		ug/kg	102%	79 - 128	9013158	01/30/09 18:32
1,2-Dichlorobenzene	50.0	51.7		ug/kg	103%	80 - 130	9013158	01/30/09 18:32
Dichlorodifluoromethane	50.0	29.9		ug/kg	60%	11 - 129	9013158	01/30/09 18:32
1,1-Dichloroethane	50.0	54.1		ug/kg	108%	68 - 150	9013158	01/30/09 18:32
1,2-Dichloroethane	50.0	54.7		ug/kg	109%	72 - 132	9013158	01/30/09 18:32
cis-1,2-Dichloroethene	50.0	55.6		ug/kg	111%	77 - 132	9013158	01/30/09 18:32
1,1-Dichloroethene	50.0	54.0		ug/kg	108%	75 - 133	9013158	01/30/09 18:32
trans-1,2-Dichloroethene	50.0	54.8		ug/kg	110%	79 - 133	9013158	01/30/09 18:32
1,3-Dichloropropane	50.0	51.5		ug/kg	103%	80 - 125	9013158	01/30/09 18:32
1,2-Dichloropropane	50.0	52.2		ug/kg	104%	75 - 124	9013158	01/30/09 18:32
2,2-Dichloropropane	50.0	51.2		ug/kg	102%	59 - 144	9013158	01/30/09 18:32
cis-1,3-Dichloropropene	50.0	50.7		ug/kg	101%	80 - 137	9013158	01/30/09 18:32
trans-1,3-Dichloropropene	50.0	49.8		ug/kg	100%	75 - 133	9013158	01/30/09 18:32
1,1-Dichloropropene	50.0	55.8		ug/kg	112%	76 - 133	9013158	01/30/09 18:32
Ethylbenzene	50.0	50.4		ug/kg	101%	80 - 128	9013158	01/30/09 18:32
Hexachlorobutadiene	50.0	53.0		ug/kg	106%	60 - 150	9013158	01/30/09 18:32
2-Hexanone	250	288		ug/kg	115%	63 - 149	9013158	01/30/09 18:32
Isopropylbenzene	50.0	53.7		ug/kg	107%	74 - 131	9013158	01/30/09 18:32
p-Isopropyltoluene	50.0	49.8		ug/kg	100%	75 - 133	9013158	01/30/09 18:32
Methyl tert-Butyl Ether	50.0	56.7		ug/kg	113%	67 - 130	9013158	01/30/09 18:32
Methylene Chloride	50.0	55.1		ug/kg	110%	65 - 144	9013158	01/30/09 18:32
4-Methyl-2-pentanone	250	269		ug/kg	108%	64 - 142	9013158	01/30/09 18:32
Naphthalene	50.0	49.8		ug/kg	100%	63 - 144	9013158	01/30/09 18:32
n-Propylbenzene	50.0	49.6		ug/kg	99%	80 - 131	9013158	01/30/09 18:32
Styrene	50.0	54.3		ug/kg	109%	80 - 144	9013158	01/30/09 18:32
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/kg	106%	80 - 129	9013158	01/30/09 18:32
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/kg	105%	73 - 139	9013158	01/30/09 18:32
Tetrachloroethene	50.0	51.4		ug/kg	103%	76 - 128	9013158	01/30/09 18:32
Toluene	50.0	50.0		ug/kg	100%	80 - 125	9013158	01/30/09 18:32
1,2,3-Trichlorobenzene	50.0	51.5		ug/kg	103%	64 - 136	9013158	01/30/09 18:32
1,2,4-Trichlorobenzene	50.0	52.0		ug/kg	104%	58 - 145	9013158	01/30/09 18:32
1,1,2-Trichloroethane	50.0	51.3		ug/kg	103%	80 - 127	9013158	01/30/09 18:32
1,1,1-Trichloroethane	50.0	54.8		ug/kg	110%	76 - 134	9013158	01/30/09 18:32

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9013158-BS1								
Trichloroethene	50.0	56.2		ug/kg	112%	75 - 131	9013158	01/30/09 18:32
Trichlorofluoromethane	50.0	49.4		ug/kg	99%	63 - 130	9013158	01/30/09 18:32
1,2,3-Trichloropropane	50.0	49.0		ug/kg	98%	66 - 129	9013158	01/30/09 18:32
1,3,5-Trimethylbenzene	50.0	49.6		ug/kg	99%	78 - 133	9013158	01/30/09 18:32
1,2,4-Trimethylbenzene	50.0	49.9		ug/kg	100%	76 - 135	9013158	01/30/09 18:32
Vinyl chloride	50.0	45.4		ug/kg	91%	58 - 134	9013158	01/30/09 18:32
Xylenes, total	150	150		ug/kg	100%	79 - 130	9013158	01/30/09 18:32
Surrogate: 1,2-Dichloroethane-d4	50.0	50.6			101%	41 - 150	9013158	01/30/09 18:32
Surrogate: Dibromofluoromethane	50.0	51.1			102%	55 - 139	9013158	01/30/09 18:32
Surrogate: Toluene-d8	50.0	47.1			94%	57 - 148	9013158	01/30/09 18:32
Surrogate: 4-Bromofluorobenzene	50.0	49.4			99%	58 - 150	9013158	01/30/09 18:32
9013425-BS1								
Acetone	250	241		ug/kg	97%	49 - 150	9013425	01/29/09 13:03
Benzene	50.0	52.2		ug/kg	104%	76 - 130	9013425	01/29/09 13:03
Bromobenzene	50.0	45.0		ug/kg	90%	80 - 128	9013425	01/29/09 13:03
Bromochloromethane	50.0	51.4		ug/kg	103%	70 - 135	9013425	01/29/09 13:03
Bromodichloromethane	50.0	50.1		ug/kg	100%	78 - 135	9013425	01/29/09 13:03
Bromoform	50.0	50.8		ug/kg	102%	67 - 143	9013425	01/29/09 13:03
Bromomethane	50.0	56.9		ug/kg	114%	58 - 150	9013425	01/29/09 13:03
2-Butanone	250	247		ug/kg	99%	61 - 143	9013425	01/29/09 13:03
sec-Butylbenzene	50.0	50.1		ug/kg	100%	80 - 134	9013425	01/29/09 13:03
n-Butylbenzene	50.0	52.9		ug/kg	106%	71 - 141	9013425	01/29/09 13:03
tert-Butylbenzene	50.0	48.8		ug/kg	98%	79 - 132	9013425	01/29/09 13:03
Carbon disulfide	50.0	52.7		ug/kg	105%	70 - 134	9013425	01/29/09 13:03
Carbon Tetrachloride	50.0	52.3		ug/kg	105%	75 - 137	9013425	01/29/09 13:03
Chlorobenzene	50.0	48.7		ug/kg	97%	80 - 121	9013425	01/29/09 13:03
Chlorodibromomethane	50.0	48.6		ug/kg	97%	77 - 130	9013425	01/29/09 13:03
Chloroethane	50.0	51.6		ug/kg	103%	62 - 149	9013425	01/29/09 13:03
Chloroform	50.0	51.5		ug/kg	103%	75 - 130	9013425	01/29/09 13:03
Chloromethane	50.0	38.4		ug/kg	77%	35 - 130	9013425	01/29/09 13:03
2-Chlorotoluene	50.0	48.1		ug/kg	96%	80 - 131	9013425	01/29/09 13:03
4-Chlorotoluene	50.0	48.1		ug/kg	96%	80 - 129	9013425	01/29/09 13:03
1,2-Dibromo-3-chloropropane	50.0	47.2		ug/kg	94%	62 - 142	9013425	01/29/09 13:03
1,2-Dibromoethane (EDB)	50.0	47.8		ug/kg	96%	81 - 130	9013425	01/29/09 13:03
Dibromomethane	50.0	50.7		ug/kg	101%	77 - 133	9013425	01/29/09 13:03
1,4-Dichlorobenzene	50.0	51.3		ug/kg	103%	75 - 128	9013425	01/29/09 13:03
1,3-Dichlorobenzene	50.0	51.0		ug/kg	102%	79 - 128	9013425	01/29/09 13:03
1,2-Dichlorobenzene	50.0	51.0		ug/kg	102%	80 - 130	9013425	01/29/09 13:03
Dichlorodifluoromethane	50.0	32.1		ug/kg	64%	11 - 129	9013425	01/29/09 13:03
1,1-Dichloroethane	50.0	50.8		ug/kg	102%	68 - 150	9013425	01/29/09 13:03

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9013425-BS1								
1,2-Dichloroethane	50.0	49.4		ug/kg	99%	72 - 132	9013425	01/29/09 13:03
cis-1,2-Dichloroethene	50.0	51.9		ug/kg	104%	77 - 132	9013425	01/29/09 13:03
1,1-Dichloroethene	50.0	51.3		ug/kg	103%	75 - 133	9013425	01/29/09 13:03
trans-1,2-Dichloroethene	50.0	52.6		ug/kg	105%	79 - 133	9013425	01/29/09 13:03
1,3-Dichloropropane	50.0	47.2		ug/kg	94%	80 - 125	9013425	01/29/09 13:03
1,2-Dichloropropane	50.0	47.9		ug/kg	96%	75 - 124	9013425	01/29/09 13:03
2,2-Dichloropropane	50.0	49.4		ug/kg	99%	59 - 144	9013425	01/29/09 13:03
cis-1,3-Dichloropropene	50.0	47.8		ug/kg	96%	80 - 137	9013425	01/29/09 13:03
trans-1,3-Dichloropropene	50.0	46.6		ug/kg	93%	75 - 133	9013425	01/29/09 13:03
1,1-Dichloropropene	50.0	51.6		ug/kg	103%	76 - 133	9013425	01/29/09 13:03
Ethylbenzene	50.0	48.8		ug/kg	98%	80 - 128	9013425	01/29/09 13:03
Hexachlorobutadiene	50.0	55.8		ug/kg	112%	60 - 150	9013425	01/29/09 13:03
2-Hexanone	250	226		ug/kg	91%	63 - 149	9013425	01/29/09 13:03
Isopropylbenzene	50.0	51.6		ug/kg	103%	74 - 131	9013425	01/29/09 13:03
p-Isopropyltoluene	50.0	50.8		ug/kg	102%	75 - 133	9013425	01/29/09 13:03
Methyl tert-Butyl Ether	50.0	51.9		ug/kg	104%	67 - 130	9013425	01/29/09 13:03
Methylene Chloride	50.0	50.2		ug/kg	100%	65 - 144	9013425	01/29/09 13:03
4-Methyl-2-pentanone	250	219		ug/kg	88%	64 - 142	9013425	01/29/09 13:03
Naphthalene	50.0	46.4		ug/kg	93%	63 - 144	9013425	01/29/09 13:03
n-Propylbenzene	50.0	48.6		ug/kg	97%	80 - 131	9013425	01/29/09 13:03
Styrene	50.0	52.4		ug/kg	105%	80 - 144	9013425	01/29/09 13:03
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/kg	98%	80 - 129	9013425	01/29/09 13:03
1,1,2,2-Tetrachloroethane	50.0	44.3		ug/kg	89%	73 - 139	9013425	01/29/09 13:03
Tetrachloroethene	50.0	49.3		ug/kg	99%	76 - 128	9013425	01/29/09 13:03
Toluene	50.0	47.4		ug/kg	95%	80 - 125	9013425	01/29/09 13:03
1,2,3-Trichlorobenzene	50.0	53.4		ug/kg	107%	64 - 136	9013425	01/29/09 13:03
1,2,4-Trichlorobenzene	50.0	57.5		ug/kg	115%	58 - 145	9013425	01/29/09 13:03
1,1,2-Trichloroethane	50.0	47.8		ug/kg	96%	80 - 127	9013425	01/29/09 13:03
1,1,1-Trichloroethane	50.0	51.6		ug/kg	103%	76 - 134	9013425	01/29/09 13:03
Trichloroethene	50.0	54.0		ug/kg	108%	75 - 131	9013425	01/29/09 13:03
Trichlorofluoromethane	50.0	47.0		ug/kg	94%	63 - 130	9013425	01/29/09 13:03
1,2,3-Trichloropropane	50.0	39.8		ug/kg	80%	66 - 129	9013425	01/29/09 13:03
1,3,5-Trimethylbenzene	50.0	50.4		ug/kg	101%	78 - 133	9013425	01/29/09 13:03
1,2,4-Trimethylbenzene	50.0	50.4		ug/kg	101%	76 - 135	9013425	01/29/09 13:03
Vinyl chloride	50.0	42.6		ug/kg	85%	58 - 134	9013425	01/29/09 13:03
Xylenes, total	150	148		ug/kg	98%	79 - 130	9013425	01/29/09 13:03
Surrogate: 1,2-Dichloroethane-d4	50.0	48.5			97%	41 - 150	9013425	01/29/09 13:03
Surrogate: Dibromofluoromethane	50.0	51.4			103%	55 - 139	9013425	01/29/09 13:03
Surrogate: Toluene-d8	50.0	47.1			94%	57 - 148	9013425	01/29/09 13:03
Surrogate: 4-Bromofluorobenzene	50.0	48.6			97%	58 - 150	9013425	01/29/09 13:03

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012636-BSD1												
Acetone		233		ug/kg	250	93%	49 - 150	10	45	9012636		01/27/09 14:15
Benzene		51.1		ug/kg	50.0	102%	76 - 130	0.8	43	9012636		01/27/09 14:15
Bromobenzene		55.8		ug/kg	50.0	112%	80 - 128	2	50	9012636		01/27/09 14:15
Bromochloromethane		50.4		ug/kg	50.0	101%	70 - 135	0.9	32	9012636		01/27/09 14:15
Bromodichloromethane		51.5		ug/kg	50.0	103%	78 - 135	2	37	9012636		01/27/09 14:15
Bromoform		49.4		ug/kg	50.0	99%	67 - 143	4	50	9012636		01/27/09 14:15
Bromomethane		53.6		ug/kg	50.0	107%	58 - 150	8	50	9012636		01/27/09 14:15
2-Butanone		224		ug/kg	250	90%	61 - 143	9	43	9012636		01/27/09 14:15
sec-Butylbenzene		56.1		ug/kg	50.0	112%	80 - 134	6	50	9012636		01/27/09 14:15
n-Butylbenzene		59.4		ug/kg	50.0	119%	71 - 141	4	50	9012636		01/27/09 14:15
tert-Butylbenzene		55.7		ug/kg	50.0	111%	79 - 132	8	50	9012636		01/27/09 14:15
Carbon disulfide		52.8		ug/kg	50.0	106%	70 - 134	1	47	9012636		01/27/09 14:15
Carbon Tetrachloride		56.5		ug/kg	50.0	113%	75 - 137	0.4	44	9012636		01/27/09 14:15
Chlorobenzene		53.6		ug/kg	50.0	107%	80 - 121	0.4	44	9012636		01/27/09 14:15
Chlorodibromomethane		61.2		ug/kg	50.0	122%	77 - 130	15	45	9012636		01/27/09 14:15
Chloroethane		53.0		ug/kg	50.0	106%	62 - 149	0.7	50	9012636		01/27/09 14:15
Chloroform		55.5		ug/kg	50.0	111%	75 - 130	2	36	9012636		01/27/09 14:15
Chloromethane		41.1		ug/kg	50.0	82%	35 - 130	3	50	9012636		01/27/09 14:15
2-Chlorotoluene		55.5		ug/kg	50.0	111%	80 - 131	0.7	50	9012636		01/27/09 14:15
4-Chlorotoluene		56.7		ug/kg	50.0	113%	80 - 129	4	50	9012636		01/27/09 14:15
1,2-Dibromo-3-chloropropane		45.6		ug/kg	50.0	91%	62 - 142	9	50	9012636		01/27/09 14:15
1,2-Dibromoethane (EDB)		61.8		ug/kg	50.0	124%	81 - 130	12	50	9012636		01/27/09 14:15
Dibromomethane		51.8		ug/kg	50.0	104%	77 - 133	2	45	9012636		01/27/09 14:15
1,4-Dichlorobenzene		55.1		ug/kg	50.0	110%	75 - 128	6	50	9012636		01/27/09 14:15
1,3-Dichlorobenzene		57.4		ug/kg	50.0	115%	79 - 128	2	50	9012636		01/27/09 14:15
1,2-Dichlorobenzene		56.1		ug/kg	50.0	112%	80 - 130	2	50	9012636		01/27/09 14:15
Dichlorodifluoromethane		41.1		ug/kg	50.0	82%	11 - 129	2	43	9012636		01/27/09 14:15
1,1-Dichloroethane		53.6		ug/kg	50.0	107%	68 - 150	1	37	9012636		01/27/09 14:15
1,2-Dichloroethane		57.8		ug/kg	50.0	116%	72 - 132	1	44	9012636		01/27/09 14:15
cis-1,2-Dichloroethene		55.6		ug/kg	50.0	111%	77 - 132	1	35	9012636		01/27/09 14:15
1,1-Dichloroethene		52.4		ug/kg	50.0	105%	75 - 133	0.5	41	9012636		01/27/09 14:15
trans-1,2-Dichloroethene		56.8		ug/kg	50.0	114%	79 - 133	7	37	9012636		01/27/09 14:15
1,3-Dichloropropane		56.1		ug/kg	50.0	112%	80 - 125	6	44	9012636		01/27/09 14:15
1,2-Dichloropropane		47.8		ug/kg	50.0	96%	75 - 124	1	35	9012636		01/27/09 14:15
2,2-Dichloropropane		56.3		ug/kg	50.0	113%	59 - 144	2	33	9012636		01/27/09 14:15
cis-1,3-Dichloropropene		53.6		ug/kg	50.0	107%	80 - 137	5	43	9012636		01/27/09 14:15
trans-1,3-Dichloropropene		52.8		ug/kg	50.0	106%	75 - 133	6	50	9012636		01/27/09 14:15
1,1-Dichloropropene		54.4		ug/kg	50.0	109%	76 - 133	2	41	9012636		01/27/09 14:15
Ethylbenzene		54.7		ug/kg	50.0	109%	80 - 128	1	48	9012636		01/27/09 14:15
Hexachlorobutadiene		58.5		ug/kg	50.0	117%	60 - 150	15	50	9012636		01/27/09 14:15
2-Hexanone		265		ug/kg	250	106%	63 - 149	14	50	9012636		01/27/09 14:15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012636-BSD1												
Isopropylbenzene		58.4		ug/kg	50.0	117%	74 - 131	1	50	9012636		01/27/09 14:15
p-Isopropyltoluene		55.4		ug/kg	50.0	111%	75 - 133	5	50	9012636		01/27/09 14:15
Methyl tert-Butyl Ether		52.2		ug/kg	50.0	104%	67 - 130	3	45	9012636		01/27/09 14:15
Methylene Chloride		50.0		ug/kg	50.0	100%	65 - 144	0.1	39	9012636		01/27/09 14:15
4-Methyl-2-pentanone		243		ug/kg	250	97%	64 - 142	11	50	9012636		01/27/09 14:15
Naphthalene		54.9		ug/kg	50.0	110%	63 - 144	9	50	9012636		01/27/09 14:15
n-Propylbenzene		55.7		ug/kg	50.0	111%	80 - 131	0.6	50	9012636		01/27/09 14:15
Styrene		57.9		ug/kg	50.0	116%	80 - 144	0.9	50	9012636		01/27/09 14:15
1,1,1,2-Tetrachloroethane		53.0		ug/kg	50.0	106%	80 - 129	2	43	9012636		01/27/09 14:15
1,1,2,2-Tetrachloroethane		49.8		ug/kg	50.0	100%	73 - 139	5	50	9012636		01/27/09 14:15
Tetrachloroethene		57.8		ug/kg	50.0	116%	76 - 128	6	45	9012636		01/27/09 14:15
Toluene		53.7		ug/kg	50.0	107%	80 - 125	5	44	9012636		01/27/09 14:15
1,2,3-Trichlorobenzene		56.7		ug/kg	50.0	113%	64 - 136	0.8	50	9012636		01/27/09 14:15
1,2,4-Trichlorobenzene		61.7		ug/kg	50.0	123%	58 - 145	3	50	9012636		01/27/09 14:15
1,1,2-Trichloroethane		54.6		ug/kg	50.0	109%	80 - 127	5	41	9012636		01/27/09 14:15
1,1,1-Trichloroethane		56.1		ug/kg	50.0	112%	76 - 134	3	39	9012636		01/27/09 14:15
Trichloroethene		51.2		ug/kg	50.0	102%	75 - 131	0.02	40	9012636		01/27/09 14:15
Trichlorofluoromethane		59.7		ug/kg	50.0	119%	63 - 130	1	42	9012636		01/27/09 14:15
1,2,3-Trichloropropane		45.2		ug/kg	50.0	90%	66 - 129	17	50	9012636		01/27/09 14:15
1,3,5-Trimethylbenzene		55.5		ug/kg	50.0	111%	78 - 133	0.04	50	9012636		01/27/09 14:15
1,2,4-Trimethylbenzene		52.9		ug/kg	50.0	106%	76 - 135	0.8	50	9012636		01/27/09 14:15
Vinyl chloride		47.0		ug/kg	50.0	94%	58 - 134	2	41	9012636		01/27/09 14:15
Xylenes, total		171		ug/kg	150	114%	79 - 130	0.6	48	9012636		01/27/09 14:15
Surrogate: 1,2-Dichloroethane-d4		60.5		ug/kg	50.0	121%	41 - 150			9012636		01/27/09 14:15
Surrogate: Dibromofluoromethane		54.0		ug/kg	50.0	108%	55 - 139			9012636		01/27/09 14:15
Surrogate: Toluene-d8		52.7		ug/kg	50.0	105%	57 - 148			9012636		01/27/09 14:15
Surrogate: 4-Bromofluorobenzene		52.5		ug/kg	50.0	105%	58 - 150			9012636		01/27/09 14:15
9012741-BSD1												
Acetone		216		ug/kg	250	87%	49 - 150	10	45	9012741		01/26/09 13:41
Benzene		44.2		ug/kg	50.0	88%	76 - 130	0.7	43	9012741		01/26/09 13:41
Bromobenzene		44.7		ug/kg	50.0	89%	80 - 128	4	50	9012741		01/26/09 13:41
Bromochloromethane		43.8		ug/kg	50.0	88%	70 - 135	1	32	9012741		01/26/09 13:41
Bromodichloromethane		44.7		ug/kg	50.0	89%	78 - 135	1	37	9012741		01/26/09 13:41
Bromoform		44.0		ug/kg	50.0	88%	67 - 143	5	50	9012741		01/26/09 13:41
Bromomethane		42.2		ug/kg	50.0	84%	58 - 150	2	50	9012741		01/26/09 13:41
2-Butanone		213		ug/kg	250	85%	61 - 143	7	43	9012741		01/26/09 13:41
sec-Butylbenzene		46.4		ug/kg	50.0	93%	80 - 134	0.2	50	9012741		01/26/09 13:41
n-Butylbenzene		50.5		ug/kg	50.0	101%	71 - 141	0.6	50	9012741		01/26/09 13:41
tert-Butylbenzene		44.6		ug/kg	50.0	89%	79 - 132	3	50	9012741		01/26/09 13:41
Carbon disulfide		45.5		ug/kg	50.0	91%	70 - 134	3	47	9012741		01/26/09 13:41

TestAmerica
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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012741-BSD1												
Carbon Tetrachloride		47.0		ug/kg	50.0	94%	75 - 137	2	44	9012741		01/26/09 13:41
Chlorobenzene		44.5		ug/kg	50.0	89%	80 - 121	2	44	9012741		01/26/09 13:41
Chlorodibromomethane		45.3		ug/kg	50.0	91%	77 - 130	4	45	9012741		01/26/09 13:41
Chloroethane		44.8		ug/kg	50.0	90%	62 - 149	3	50	9012741		01/26/09 13:41
Chloroform		46.5		ug/kg	50.0	93%	75 - 130	0.6	36	9012741		01/26/09 13:41
Chloromethane		35.3		ug/kg	50.0	71%	35 - 130	4	50	9012741		01/26/09 13:41
2-Chlorotoluene		44.8		ug/kg	50.0	90%	80 - 131	2	50	9012741		01/26/09 13:41
4-Chlorotoluene		46.0		ug/kg	50.0	92%	80 - 129	0.3	50	9012741		01/26/09 13:41
1,2-Dibromo-3-chloropropane		44.5		ug/kg	50.0	89%	62 - 142	1	50	9012741		01/26/09 13:41
1,2-Dibromoethane (EDB)		46.6		ug/kg	50.0	93%	81 - 130	2	50	9012741		01/26/09 13:41
Dibromomethane		45.2		ug/kg	50.0	90%	77 - 133	3	45	9012741		01/26/09 13:41
1,4-Dichlorobenzene		45.6		ug/kg	50.0	91%	75 - 128	1	50	9012741		01/26/09 13:41
1,3-Dichlorobenzene		46.6		ug/kg	50.0	93%	79 - 128	0.09	50	9012741		01/26/09 13:41
1,2-Dichlorobenzene		46.4		ug/kg	50.0	93%	80 - 130	1	50	9012741		01/26/09 13:41
Dichlorodifluoromethane		38.9		ug/kg	50.0	78%	11 - 129	5	43	9012741		01/26/09 13:41
1,1-Dichloroethane		45.2		ug/kg	50.0	90%	68 - 150	1	37	9012741		01/26/09 13:41
1,2-Dichloroethane		49.5		ug/kg	50.0	99%	72 - 132	2	44	9012741		01/26/09 13:41
cis-1,2-Dichloroethene		46.3		ug/kg	50.0	93%	77 - 132	2	35	9012741		01/26/09 13:41
1,1-Dichloroethene		43.3		ug/kg	50.0	87%	75 - 133	4	41	9012741		01/26/09 13:41
trans-1,2-Dichloroethene		44.2		ug/kg	50.0	88%	79 - 133	11	37	9012741		01/26/09 13:41
1,3-Dichloropropane		42.3		ug/kg	50.0	85%	80 - 125	3	44	9012741		01/26/09 13:41
1,2-Dichloropropane		41.7		ug/kg	50.0	83%	75 - 124	0.9	35	9012741		01/26/09 13:41
2,2-Dichloropropane		46.3		ug/kg	50.0	93%	59 - 144	2	33	9012741		01/26/09 13:41
cis-1,3-Dichloropropene		49.8		ug/kg	50.0	100%	80 - 137	2	43	9012741		01/26/09 13:41
trans-1,3-Dichloropropene		49.1		ug/kg	50.0	98%	75 - 133	2	50	9012741		01/26/09 13:41
1,1-Dichloropropene		46.1		ug/kg	50.0	92%	76 - 133	3	41	9012741		01/26/09 13:41
Ethylbenzene		45.0		ug/kg	50.0	90%	80 - 128	2	48	9012741		01/26/09 13:41
Hexachlorobutadiene		54.5		ug/kg	50.0	109%	60 - 150	2	50	9012741		01/26/09 13:41
2-Hexanone		227		ug/kg	250	91%	63 - 149	5	50	9012741		01/26/09 13:41
Isopropylbenzene		47.8		ug/kg	50.0	96%	74 - 131	2	50	9012741		01/26/09 13:41
p-Isopropyltoluene		45.4		ug/kg	50.0	91%	75 - 133	0.4	50	9012741		01/26/09 13:41
Methyl tert-Butyl Ether		46.4		ug/kg	50.0	93%	67 - 130	2	45	9012741		01/26/09 13:41
Methylene Chloride		43.6		ug/kg	50.0	87%	65 - 144	2	39	9012741		01/26/09 13:41
4-Methyl-2-pentanone		241		ug/kg	250	96%	64 - 142	8	50	9012741		01/26/09 13:41
Naphthalene		49.1		ug/kg	50.0	98%	63 - 144	3	50	9012741		01/26/09 13:41
n-Propylbenzene		45.2		ug/kg	50.0	90%	80 - 131	2	50	9012741		01/26/09 13:41
Styrene		48.1		ug/kg	50.0	96%	80 - 144	1	50	9012741		01/26/09 13:41
1,1,1,2-Tetrachloroethane		45.5		ug/kg	50.0	91%	80 - 129	2	43	9012741		01/26/09 13:41
1,1,2,2-Tetrachloroethane		44.0		ug/kg	50.0	88%	73 - 139	5	50	9012741		01/26/09 13:41
Tetrachloroethene		41.6		ug/kg	50.0	83%	76 - 128	0.6	45	9012741		01/26/09 13:41
Toluene		48.2		ug/kg	50.0	96%	80 - 125	3	44	9012741		01/26/09 13:41

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012741-BSD1												
1,2,3-Trichlorobenzene		47.7		ug/kg	50.0	95%	64 - 136	0.1	50	9012741		01/26/09 13:41
1,2,4-Trichlorobenzene		51.4		ug/kg	50.0	103%	58 - 145	3	50	9012741		01/26/09 13:41
1,1,2-Trichloroethane		43.3		ug/kg	50.0	87%	80 - 127	5	41	9012741		01/26/09 13:41
1,1,1-Trichloroethane		46.5		ug/kg	50.0	93%	76 - 134	2	39	9012741		01/26/09 13:41
Trichloroethene		42.6		ug/kg	50.0	85%	75 - 131	3	40	9012741		01/26/09 13:41
Trichlorofluoromethane		49.8		ug/kg	50.0	100%	63 - 130	2	42	9012741		01/26/09 13:41
1,2,3-Trichloropropane		44.6		ug/kg	50.0	89%	66 - 129	6	50	9012741		01/26/09 13:41
1,3,5-Trimethylbenzene		45.5		ug/kg	50.0	91%	78 - 133	2	50	9012741		01/26/09 13:41
1,2,4-Trimethylbenzene		43.7		ug/kg	50.0	87%	76 - 135	0.9	50	9012741		01/26/09 13:41
Vinyl chloride		40.8		ug/kg	50.0	82%	58 - 134	3	41	9012741		01/26/09 13:41
Xylenes, total		140		ug/kg	150	93%	79 - 130	2	48	9012741		01/26/09 13:41
Surrogate: 1,2-Dichloroethane-d4		62.6		ug/kg	50.0	125%	41 - 150			9012741		01/26/09 13:41
Surrogate: Dibromofluoromethane		52.9		ug/kg	50.0	106%	55 - 139			9012741		01/26/09 13:41
Surrogate: Toluene-d8		56.6		ug/kg	50.0	113%	57 - 148			9012741		01/26/09 13:41
Surrogate: 4-Bromofluorobenzene		51.3		ug/kg	50.0	103%	58 - 150			9012741		01/26/09 13:41
9013158-BSD1												
Acetone		352		ug/kg	250	141%	49 - 150	1	45	9013158		01/30/09 19:02
Benzene		56.6		ug/kg	50.0	113%	76 - 130	2	43	9013158		01/30/09 19:02
Bromobenzene		45.7		ug/kg	50.0	91%	80 - 128	5	50	9013158		01/30/09 19:02
Bromochloromethane		55.5		ug/kg	50.0	111%	70 - 135	1	32	9013158		01/30/09 19:02
Bromodichloromethane		54.3		ug/kg	50.0	109%	78 - 135	0.06	37	9013158		01/30/09 19:02
Bromoform		56.9		ug/kg	50.0	114%	67 - 143	1	50	9013158		01/30/09 19:02
Bromomethane		62.5		ug/kg	50.0	125%	58 - 150	0.1	50	9013158		01/30/09 19:02
2-Butanone		330		ug/kg	250	132%	61 - 143	3	43	9013158		01/30/09 19:02
sec-Butylbenzene		50.2		ug/kg	50.0	100%	80 - 134	1	50	9013158		01/30/09 19:02
n-Butylbenzene		49.4		ug/kg	50.0	99%	71 - 141	4	50	9013158		01/30/09 19:02
tert-Butylbenzene		55.9		ug/kg	50.0	112%	79 - 132	9	50	9013158		01/30/09 19:02
Carbon disulfide		55.0		ug/kg	50.0	110%	70 - 134	2	47	9013158		01/30/09 19:02
Carbon Tetrachloride		55.2		ug/kg	50.0	110%	75 - 137	1	44	9013158		01/30/09 19:02
Chlorobenzene		50.9		ug/kg	50.0	102%	80 - 121	0.9	44	9013158		01/30/09 19:02
Chlorodibromomethane		51.3		ug/kg	50.0	103%	77 - 130	1	45	9013158		01/30/09 19:02
Chloroethane		51.6		ug/kg	50.0	103%	62 - 149	2	50	9013158		01/30/09 19:02
Chloroform		55.7		ug/kg	50.0	111%	75 - 130	2	36	9013158		01/30/09 19:02
Chloromethane		39.8		ug/kg	50.0	80%	35 - 130	0.4	50	9013158		01/30/09 19:02
2-Chlorotoluene		48.3		ug/kg	50.0	97%	80 - 131	1	50	9013158		01/30/09 19:02
4-Chlorotoluene		49.1		ug/kg	50.0	98%	80 - 129	1	50	9013158		01/30/09 19:02
1,2-Dibromo-3-chloropropane		57.5		ug/kg	50.0	115%	62 - 142	3	50	9013158		01/30/09 19:02
1,2-Dibromoethane (EDB)		53.4		ug/kg	50.0	107%	81 - 130	3	50	9013158		01/30/09 19:02
Dibromomethane		56.7		ug/kg	50.0	113%	77 - 133	0.7	45	9013158		01/30/09 19:02
1,4-Dichlorobenzene		50.6		ug/kg	50.0	101%	75 - 128	1	50	9013158		01/30/09 19:02

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013158-BSD1												
1,3-Dichlorobenzene		50.0		ug/kg	50.0	100%	79 - 128	2	50	9013158		01/30/09 19:02
1,2-Dichlorobenzene		51.7		ug/kg	50.0	103%	80 - 130	0.02	50	9013158		01/30/09 19:02
Dichlorodifluoromethane		29.2		ug/kg	50.0	58%	11 - 129	2	43	9013158		01/30/09 19:02
1,1-Dichloroethane		53.9		ug/kg	50.0	108%	68 - 150	0.4	37	9013158		01/30/09 19:02
1,2-Dichloroethane		55.8		ug/kg	50.0	112%	72 - 132	2	44	9013158		01/30/09 19:02
cis-1,2-Dichloroethene		56.2		ug/kg	50.0	112%	77 - 132	1	35	9013158		01/30/09 19:02
1,1-Dichloroethene		57.0		ug/kg	50.0	114%	75 - 133	5	41	9013158		01/30/09 19:02
trans-1,2-Dichloroethene		55.3		ug/kg	50.0	111%	79 - 133	1	37	9013158		01/30/09 19:02
1,3-Dichloropropane		51.0		ug/kg	50.0	102%	80 - 125	0.8	44	9013158		01/30/09 19:02
1,2-Dichloropropane		53.9		ug/kg	50.0	108%	75 - 124	3	35	9013158		01/30/09 19:02
2,2-Dichloropropane		51.3		ug/kg	50.0	103%	59 - 144	0.4	33	9013158		01/30/09 19:02
cis-1,3-Dichloropropene		49.5		ug/kg	50.0	99%	80 - 137	2	43	9013158		01/30/09 19:02
trans-1,3-Dichloropropene		49.2		ug/kg	50.0	98%	75 - 133	1	50	9013158		01/30/09 19:02
1,1-Dichloropropene		56.8		ug/kg	50.0	114%	76 - 133	2	41	9013158		01/30/09 19:02
Ethylbenzene		50.4		ug/kg	50.0	101%	80 - 128	0.1	48	9013158		01/30/09 19:02
Hexachlorobutadiene		52.6		ug/kg	50.0	105%	60 - 150	0.8	50	9013158		01/30/09 19:02
2-Hexanone		287		ug/kg	250	115%	63 - 149	0.3	50	9013158		01/30/09 19:02
Isopropylbenzene		53.5		ug/kg	50.0	107%	74 - 131	0.4	50	9013158		01/30/09 19:02
p-Isopropyltoluene		49.2		ug/kg	50.0	98%	75 - 133	1	50	9013158		01/30/09 19:02
Methyl tert-Butyl Ether		58.1		ug/kg	50.0	116%	67 - 130	3	45	9013158		01/30/09 19:02
Methylene Chloride		55.9		ug/kg	50.0	112%	65 - 144	1	39	9013158		01/30/09 19:02
4-Methyl-2-pentanone		267		ug/kg	250	107%	64 - 142	1	50	9013158		01/30/09 19:02
Naphthalene		39.3		ug/kg	50.0	79%	63 - 144	23	50	9013158		01/30/09 19:02
n-Propylbenzene		48.7		ug/kg	50.0	97%	80 - 131	2	50	9013158		01/30/09 19:02
Styrene		54.6		ug/kg	50.0	109%	80 - 144	0.6	50	9013158		01/30/09 19:02
1,1,1,2-Tetrachloroethane		52.1		ug/kg	50.0	104%	80 - 129	1	43	9013158		01/30/09 19:02
1,1,2,2-Tetrachloroethane		51.1		ug/kg	50.0	102%	73 - 139	3	50	9013158		01/30/09 19:02
Tetrachloroethene		49.7		ug/kg	50.0	99%	76 - 128	3	45	9013158		01/30/09 19:02
Toluene		49.8		ug/kg	50.0	100%	80 - 125	0.4	44	9013158		01/30/09 19:02
1,2,3-Trichlorobenzene		49.5		ug/kg	50.0	99%	64 - 136	4	50	9013158		01/30/09 19:02
1,2,4-Trichlorobenzene		50.3		ug/kg	50.0	101%	58 - 145	3	50	9013158		01/30/09 19:02
1,1,2-Trichloroethane		50.0		ug/kg	50.0	100%	80 - 127	3	41	9013158		01/30/09 19:02
1,1,1-Trichloroethane		55.4		ug/kg	50.0	111%	76 - 134	1	39	9013158		01/30/09 19:02
Trichloroethene		56.1		ug/kg	50.0	112%	75 - 131	0.1	40	9013158		01/30/09 19:02
Trichlorofluoromethane		49.5		ug/kg	50.0	99%	63 - 130	0.08	42	9013158		01/30/09 19:02
1,2,3-Trichloropropane		48.5		ug/kg	50.0	97%	66 - 129	1	50	9013158		01/30/09 19:02
1,3,5-Trimethylbenzene		50.0		ug/kg	50.0	100%	78 - 133	0.7	50	9013158		01/30/09 19:02
1,2,4-Trimethylbenzene		49.3		ug/kg	50.0	99%	76 - 135	1	50	9013158		01/30/09 19:02
Vinyl chloride		45.6		ug/kg	50.0	91%	58 - 134	0.5	41	9013158		01/30/09 19:02
Xylenes, total		152		ug/kg	150	101%	79 - 130	1	48	9013158		01/30/09 19:02
Surrogate: 1,2-Dichloroethane-d4		50.7		ug/kg	50.0	101%	41 - 150			9013158		01/30/09 19:02

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013158-BSD1												
Surrogate: Dibromofluoromethane		52.0		ug/kg	50.0	104%	55 - 139			9013158		01/30/09 19:02
Surrogate: Toluene-d8		47.0		ug/kg	50.0	94%	57 - 148			9013158		01/30/09 19:02
Surrogate: 4-Bromofluorobenzene		49.0		ug/kg	50.0	98%	58 - 150			9013158		01/30/09 19:02
9013425-BSD1												
Acetone		224		ug/kg	250	90%	49 - 150	7	45	9013425		01/29/09 13:34
Benzene		47.5		ug/kg	50.0	95%	76 - 130	9	43	9013425		01/29/09 13:34
Bromobenzene		43.2		ug/kg	50.0	86%	80 - 128	4	50	9013425		01/29/09 13:34
Bromochloromethane		46.3		ug/kg	50.0	93%	70 - 135	11	32	9013425		01/29/09 13:34
Bromodichloromethane		46.0		ug/kg	50.0	92%	78 - 135	9	37	9013425		01/29/09 13:34
Bromoform		47.2		ug/kg	50.0	94%	67 - 143	7	50	9013425		01/29/09 13:34
Bromomethane		51.0		ug/kg	50.0	102%	58 - 150	11	50	9013425		01/29/09 13:34
2-Butanone		233		ug/kg	250	93%	61 - 143	6	43	9013425		01/29/09 13:34
sec-Butylbenzene		45.7		ug/kg	50.0	91%	80 - 134	9	50	9013425		01/29/09 13:34
n-Butylbenzene		48.1		ug/kg	50.0	96%	71 - 141	9	50	9013425		01/29/09 13:34
tert-Butylbenzene		50.3		ug/kg	50.0	101%	79 - 132	3	50	9013425		01/29/09 13:34
Carbon disulfide		47.1		ug/kg	50.0	94%	70 - 134	11	47	9013425		01/29/09 13:34
Carbon Tetrachloride		47.0		ug/kg	50.0	94%	75 - 137	11	44	9013425		01/29/09 13:34
Chlorobenzene		44.3		ug/kg	50.0	89%	80 - 121	9	44	9013425		01/29/09 13:34
Chlorodibromomethane		43.6		ug/kg	50.0	87%	77 - 130	11	45	9013425		01/29/09 13:34
Chloroethane		47.4		ug/kg	50.0	95%	62 - 149	9	50	9013425		01/29/09 13:34
Chloroform		46.8		ug/kg	50.0	94%	75 - 130	10	36	9013425		01/29/09 13:34
Chloromethane		35.3		ug/kg	50.0	71%	35 - 130	8	50	9013425		01/29/09 13:34
2-Chlorotoluene		44.0		ug/kg	50.0	88%	80 - 131	9	50	9013425		01/29/09 13:34
4-Chlorotoluene		44.2		ug/kg	50.0	88%	80 - 129	8	50	9013425		01/29/09 13:34
1,2-Dibromo-3-chloropropane		43.4		ug/kg	50.0	87%	62 - 142	8	50	9013425		01/29/09 13:34
1,2-Dibromoethane (EDB)		43.2		ug/kg	50.0	86%	81 - 130	10	50	9013425		01/29/09 13:34
Dibromomethane		46.9		ug/kg	50.0	94%	77 - 133	8	45	9013425		01/29/09 13:34
1,4-Dichlorobenzene		47.4		ug/kg	50.0	95%	75 - 128	8	50	9013425		01/29/09 13:34
1,3-Dichlorobenzene		46.6		ug/kg	50.0	93%	79 - 128	9	50	9013425		01/29/09 13:34
1,2-Dichlorobenzene		47.0		ug/kg	50.0	94%	80 - 130	8	50	9013425		01/29/09 13:34
Dichlorodifluoromethane		26.8		ug/kg	50.0	54%	11 - 129	18	43	9013425		01/29/09 13:34
1,1-Dichloroethane		46.5		ug/kg	50.0	93%	68 - 150	9	37	9013425		01/29/09 13:34
1,2-Dichloroethane		46.0		ug/kg	50.0	92%	72 - 132	7	44	9013425		01/29/09 13:34
cis-1,2-Dichloroethene		48.0		ug/kg	50.0	96%	77 - 132	8	35	9013425		01/29/09 13:34
1,1-Dichloroethene		46.1		ug/kg	50.0	92%	75 - 133	11	41	9013425		01/29/09 13:34
trans-1,2-Dichloroethene		48.8		ug/kg	50.0	98%	79 - 133	8	37	9013425		01/29/09 13:34
1,3-Dichloropropane		43.5		ug/kg	50.0	87%	80 - 125	8	44	9013425		01/29/09 13:34
1,2-Dichloropropane		44.3		ug/kg	50.0	89%	75 - 124	8	35	9013425		01/29/09 13:34
2,2-Dichloropropane		44.8		ug/kg	50.0	90%	59 - 144	10	33	9013425		01/29/09 13:34
cis-1,3-Dichloropropene		43.8		ug/kg	50.0	88%	80 - 137	9	43	9013425		01/29/09 13:34

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013425-BSD1												
trans-1,3-Dichloropropene		42.7		ug/kg	50.0	85%	75 - 133	9	50	9013425		01/29/09 13:34
1,1-Dichloropropene		46.8		ug/kg	50.0	94%	76 - 133	10	41	9013425		01/29/09 13:34
Ethylbenzene		44.2		ug/kg	50.0	88%	80 - 128	10	48	9013425		01/29/09 13:34
Hexachlorobutadiene		52.5		ug/kg	50.0	105%	60 - 150	6	50	9013425		01/29/09 13:34
2-Hexanone		216		ug/kg	250	87%	63 - 149	5	50	9013425		01/29/09 13:34
Isopropylbenzene		46.8		ug/kg	50.0	94%	74 - 131	10	50	9013425		01/29/09 13:34
p-Isopropyltoluene		46.2		ug/kg	50.0	92%	75 - 133	9	50	9013425		01/29/09 13:34
Methyl tert-Butyl Ether		47.3		ug/kg	50.0	95%	67 - 130	9	45	9013425		01/29/09 13:34
Methylene Chloride		45.6		ug/kg	50.0	91%	65 - 144	10	39	9013425		01/29/09 13:34
4-Methyl-2-pentanone		210		ug/kg	250	84%	64 - 142	4	50	9013425		01/29/09 13:34
Naphthalene		34.4		ug/kg	50.0	69%	63 - 144	30	50	9013425		01/29/09 13:34
n-Propylbenzene		44.1		ug/kg	50.0	88%	80 - 131	10	50	9013425		01/29/09 13:34
Styrene		47.6		ug/kg	50.0	95%	80 - 144	10	50	9013425		01/29/09 13:34
1,1,1,2-Tetrachloroethane		43.8		ug/kg	50.0	88%	80 - 129	11	43	9013425		01/29/09 13:34
1,1,2,2-Tetrachloroethane		41.4		ug/kg	50.0	83%	73 - 139	7	50	9013425		01/29/09 13:34
Tetrachloroethene		45.3		ug/kg	50.0	91%	76 - 128	9	45	9013425		01/29/09 13:34
Toluene		43.4		ug/kg	50.0	87%	80 - 125	9	44	9013425		01/29/09 13:34
1,2,3-Trichlorobenzene		46.0		ug/kg	50.0	92%	64 - 136	15	50	9013425		01/29/09 13:34
1,2,4-Trichlorobenzene		50.6		ug/kg	50.0	101%	58 - 145	13	50	9013425		01/29/09 13:34
1,1,2-Trichloroethane		42.1		ug/kg	50.0	84%	80 - 127	13	41	9013425		01/29/09 13:34
1,1,1-Trichloroethane		47.1		ug/kg	50.0	94%	76 - 134	9	39	9013425		01/29/09 13:34
Trichloroethene		48.4		ug/kg	50.0	97%	75 - 131	11	40	9013425		01/29/09 13:34
Trichlorofluoromethane		42.1		ug/kg	50.0	84%	63 - 130	11	42	9013425		01/29/09 13:34
1,2,3-Trichloropropane		36.9		ug/kg	50.0	74%	66 - 129	8	50	9013425		01/29/09 13:34
1,3,5-Trimethylbenzene		45.5		ug/kg	50.0	91%	78 - 133	10	50	9013425		01/29/09 13:34
1,2,4-Trimethylbenzene		44.9		ug/kg	50.0	90%	76 - 135	12	50	9013425		01/29/09 13:34
Vinyl chloride		39.6		ug/kg	50.0	79%	58 - 134	7	41	9013425		01/29/09 13:34
Xylenes, total		134		ug/kg	150	89%	79 - 130	10	48	9013425		01/29/09 13:34
Surrogate: 1,2-Dichloroethane-d4		48.9		ug/kg	50.0	98%	41 - 150			9013425		01/29/09 13:34
Surrogate: Dibromofluoromethane		51.2		ug/kg	50.0	102%	55 - 139			9013425		01/29/09 13:34
Surrogate: Toluene-d8		47.8		ug/kg	50.0	96%	57 - 148			9013425		01/29/09 13:34
Surrogate: 4-Bromofluorobenzene		50.0		ug/kg	50.0	100%	58 - 150			9013425		01/29/09 13:34

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9012636-MS1										
Acetone	102000	103000	MHA	ug/kg	250	405%	32 - 163	9012636	NSA1538-03	01/27/09 22:33
Benzene	7.67	46.3		ug/kg	50.0	77%	33 - 146	9012636	NSA1538-03	01/27/09 22:33
Bromobenzene	ND	34.9		ug/kg	50.0	70%	10 - 156	9012636	NSA1538-03	01/27/09 22:33
Bromochloromethane	ND	27.4		ug/kg	50.0	55%	43 - 138	9012636	NSA1538-03	01/27/09 22:33
Bromodichloromethane	ND	31.9		ug/kg	50.0	64%	31 - 149	9012636	NSA1538-03	01/27/09 22:33
Bromoform	ND	22.4		ug/kg	50.0	45%	14 - 167	9012636	NSA1538-03	01/27/09 22:33
Bromomethane	ND	37.9		ug/kg	50.0	76%	16 - 172	9012636	NSA1538-03	01/27/09 22:33
2-Butanone	8840	9260	MHA	ug/kg	250	171%	37 - 151	9012636	NSA1538-03	01/27/09 22:33
sec-Butylbenzene	ND	43.1		ug/kg	50.0	86%	18 - 165	9012636	NSA1538-03	01/27/09 22:33
n-Butylbenzene	1.72	42.4		ug/kg	50.0	81%	10 - 168	9012636	NSA1538-03	01/27/09 22:33
tert-Butylbenzene	ND	43.0		ug/kg	50.0	86%	17 - 165	9012636	NSA1538-03	01/27/09 22:33
Carbon disulfide	ND	1.64	M2	ug/kg	50.0	3%	34 - 147	9012636	NSA1538-03	01/27/09 22:33
Carbon Tetrachloride	ND	37.5		ug/kg	50.0	75%	33 - 155	9012636	NSA1538-03	01/27/09 22:33
Chlorobenzene	ND	37.8		ug/kg	50.0	76%	23 - 147	9012636	NSA1538-03	01/27/09 22:33
Chlorodibromomethane	ND	31.8		ug/kg	50.0	64%	21 - 155	9012636	NSA1538-03	01/27/09 22:33
Chloroethane	ND	37.0		ug/kg	50.0	74%	44 - 155	9012636	NSA1538-03	01/27/09 22:33
Chloroform	ND	37.9		ug/kg	50.0	76%	39 - 140	9012636	NSA1538-03	01/27/09 22:33
Chloromethane	ND	29.5		ug/kg	50.0	59%	14 - 143	9012636	NSA1538-03	01/27/09 22:33
2-Chlorotoluene	ND	47.2		ug/kg	50.0	94%	21 - 154	9012636	NSA1538-03	01/27/09 22:33
4-Chlorotoluene	ND	41.8		ug/kg	50.0	84%	10 - 156	9012636	NSA1538-03	01/27/09 22:33
1,2-Dibromo-3-chloropropane	ND	22.3		ug/kg	50.0	45%	10 - 159	9012636	NSA1538-03	01/27/09 22:33
1,2-Dibromoethane (EDB)	ND	31.0		ug/kg	50.0	62%	19 - 151	9012636	NSA1538-03	01/27/09 22:33
Dibromomethane	ND	28.4		ug/kg	50.0	57%	32 - 147	9012636	NSA1538-03	01/27/09 22:33
1,4-Dichlorobenzene	ND	33.8		ug/kg	50.0	68%	10 - 152	9012636	NSA1538-03	01/27/09 22:33
1,3-Dichlorobenzene	ND	35.9		ug/kg	50.0	72%	10 - 153	9012636	NSA1538-03	01/27/09 22:33
1,2-Dichlorobenzene	ND	31.6		ug/kg	50.0	63%	10 - 155	9012636	NSA1538-03	01/27/09 22:33
Dichlorodifluoromethane	ND	25.7		ug/kg	50.0	51%	10 - 143	9012636	NSA1538-03	01/27/09 22:33
1,1-Dichloroethane	ND	34.1		ug/kg	50.0	68%	49 - 156	9012636	NSA1538-03	01/27/09 22:33
1,2-Dichloroethane	ND	32.8		ug/kg	50.0	66%	27 - 145	9012636	NSA1538-03	01/27/09 22:33
cis-1,2-Dichloroethene	ND	36.7		ug/kg	50.0	73%	39 - 143	9012636	NSA1538-03	01/27/09 22:33
1,1-Dichloroethene	ND	9.88	M2	ug/kg	50.0	20%	42 - 145	9012636	NSA1538-03	01/27/09 22:33
trans-1,2-Dichloroethene	ND	39.8		ug/kg	50.0	80%	41 - 146	9012636	NSA1538-03	01/27/09 22:33
1,3-Dichloropropane	ND	32.5		ug/kg	50.0	65%	30 - 143	9012636	NSA1538-03	01/27/09 22:33
1,2-Dichloropropane	ND	32.9		ug/kg	50.0	66%	37 - 136	9012636	NSA1538-03	01/27/09 22:33
2,2-Dichloropropane	ND	36.0		ug/kg	50.0	72%	30 - 145	9012636	NSA1538-03	01/27/09 22:33
cis-1,3-Dichloropropene	ND	33.9		ug/kg	50.0	68%	29 - 149	9012636	NSA1538-03	01/27/09 22:33
trans-1,3-Dichloropropene	ND	30.1		ug/kg	50.0	60%	17 - 146	9012636	NSA1538-03	01/27/09 22:33

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9012636-MS1										
1,1-Dichloropropene	ND	43.8		ug/kg	50.0	88%	36 - 147	9012636	NSA1538-03	01/27/09 22:33
Ethylbenzene	163	322	MHA	ug/kg	50.0	318%	16 - 160	9012636	NSA1538-03	01/27/09 22:33
Hexachlorobutadiene	ND	35.0		ug/kg	50.0	70%	10 - 191	9012636	NSA1538-03	01/27/09 22:33
2-Hexanone	ND	139		ug/kg	250	56%	19 - 154	9012636	NSA1538-03	01/27/09 22:33
Isopropylbenzene	5.49	51.5		ug/kg	50.0	92%	16 - 156	9012636	NSA1538-03	01/27/09 22:33
p-Isopropyltoluene	ND	42.2		ug/kg	50.0	84%	13 - 160	9012636	NSA1538-03	01/27/09 22:33
Methyl tert-Butyl Ether	ND	26.4		ug/kg	50.0	53%	30 - 136	9012636	NSA1538-03	01/27/09 22:33
Methylene Chloride	ND	34.0		ug/kg	50.0	68%	31 - 160	9012636	NSA1538-03	01/27/09 22:33
4-Methyl-2-pentanone	2470	1590	M1	ug/kg	250	-351%	25 - 149	9012636	NSA1538-03	01/27/09 22:33
Naphthalene	3.34	28.1		ug/kg	50.0	50%	10 - 151	9012636	NSA1538-03	01/27/09 22:33
n-Propylbenzene	5.57	49.9		ug/kg	50.0	89%	17 - 158	9012636	NSA1538-03	01/27/09 22:33
Styrene	ND	65.3		ug/kg	50.0	131%	11 - 168	9012636	NSA1538-03	01/27/09 22:33
1,1,1,2-Tetrachloroethane	ND	35.6		ug/kg	50.0	71%	30 - 147	9012636	NSA1538-03	01/27/09 22:33
1,1,2,2-Tetrachloroethane	ND	27.4		ug/kg	50.0	55%	20 - 155	9012636	NSA1538-03	01/27/09 22:33
Tetrachloroethene	ND	51.8		ug/kg	50.0	104%	27 - 151	9012636	NSA1538-03	01/27/09 22:33
Toluene	1880	2620	MHA	ug/kg	50.0	1460%	30 - 145	9012636	NSA1538-03	01/27/09 22:33
1,2,3-Trichlorobenzene	ND	20.9		ug/kg	50.0	42%	10 - 158	9012636	NSA1538-03	01/27/09 22:33
1,2,4-Trichlorobenzene	ND	26.9		ug/kg	50.0	54%	10 - 160	9012636	NSA1538-03	01/27/09 22:33
1,1,2-Trichloroethane	ND	53.3		ug/kg	50.0	107%	34 - 140	9012636	NSA1538-03	01/27/09 22:33
1,1,1-Trichloroethane	ND	42.4		ug/kg	50.0	85%	36 - 150	9012636	NSA1538-03	01/27/09 22:33
Trichloroethene	ND	43.0		ug/kg	50.0	86%	33 - 145	9012636	NSA1538-03	01/27/09 22:33
Trichlorofluoromethane	ND	3.32	M2	ug/kg	50.0	7%	31 - 150	9012636	NSA1538-03	01/27/09 22:33
1,2,3-Trichloropropane	ND	24.2		ug/kg	50.0	48%	14 - 143	9012636	NSA1538-03	01/27/09 22:33
1,3,5-Trimethylbenzene	13.8	58.7		ug/kg	50.0	90%	20 - 158	9012636	NSA1538-03	01/27/09 22:33
1,2,4-Trimethylbenzene	79.0	144		ug/kg	50.0	131%	10 - 166	9012636	NSA1538-03	01/27/09 22:33
Vinyl chloride	ND	28.0		ug/kg	50.0	56%	32 - 144	9012636	NSA1538-03	01/27/09 22:33
Xylenes, total	1150	1690	MHA	ug/kg	150	356%	16 - 159	9012636	NSA1538-03	01/27/09 22:33
Surrogate: 1,2-Dichloroethane-d4		57.4		ug/kg	50.0	115%	41 - 150	9012636	NSA1538-03	01/27/09 22:33
Surrogate: Dibromofluoromethane		52.0		ug/kg	50.0	104%	55 - 139	9012636	NSA1538-03	01/27/09 22:33
Surrogate: Toluene-d8		21.8	ZX	ug/kg	50.0	44%	57 - 148	9012636	NSA1538-03	01/27/09 22:33
Surrogate: 4-Bromofluorobenzene		55.0		ug/kg	50.0	110%	58 - 150	9012636	NSA1538-03	01/27/09 22:33
9012741-MS1										
Acetone	33.5	464	M7	ug/kg	250	172%	32 - 163	9012741	NSA1598-08	01/27/09 21:32
Benzene	ND	44.6		ug/kg	50.0	89%	33 - 146	9012741	NSA1598-08	01/27/09 21:32
Bromobenzene	ND	43.1		ug/kg	50.0	86%	10 - 156	9012741	NSA1598-08	01/27/09 21:32
Bromochloromethane	ND	44.8		ug/kg	50.0	90%	43 - 138	9012741	NSA1598-08	01/27/09 21:32
Bromodichloromethane	ND	43.8		ug/kg	50.0	88%	31 - 149	9012741	NSA1598-08	01/27/09 21:32

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9012741-MS1										
Bromoform	ND	39.0		ug/kg	50.0	78%	14 - 167	9012741	NSA1598-08	01/27/09 21:32
Bromomethane	ND	38.9		ug/kg	50.0	78%	16 - 172	9012741	NSA1598-08	01/27/09 21:32
2-Butanone	ND	237		ug/kg	250	95%	37 - 151	9012741	NSA1598-08	01/27/09 21:32
sec-Butylbenzene	ND	45.3		ug/kg	50.0	91%	18 - 165	9012741	NSA1598-08	01/27/09 21:32
n-Butylbenzene	ND	41.7		ug/kg	50.0	83%	10 - 168	9012741	NSA1598-08	01/27/09 21:32
tert-Butylbenzene	ND	47.8		ug/kg	50.0	96%	17 - 165	9012741	NSA1598-08	01/27/09 21:32
Carbon disulfide	ND	45.1		ug/kg	50.0	90%	34 - 147	9012741	NSA1598-08	01/27/09 21:32
Carbon Tetrachloride	ND	47.4		ug/kg	50.0	95%	33 - 155	9012741	NSA1598-08	01/27/09 21:32
Chlorobenzene	ND	43.0		ug/kg	50.0	86%	23 - 147	9012741	NSA1598-08	01/27/09 21:32
Chlorodibromomethane	ND	45.7		ug/kg	50.0	91%	21 - 155	9012741	NSA1598-08	01/27/09 21:32
Chloroethane	ND	45.1		ug/kg	50.0	90%	44 - 155	9012741	NSA1598-08	01/27/09 21:32
Chloroform	ND	48.3		ug/kg	50.0	97%	39 - 140	9012741	NSA1598-08	01/27/09 21:32
Chloromethane	ND	39.9		ug/kg	50.0	80%	14 - 143	9012741	NSA1598-08	01/27/09 21:32
2-Chlorotoluene	ND	44.5		ug/kg	50.0	89%	21 - 154	9012741	NSA1598-08	01/27/09 21:32
4-Chlorotoluene	ND	41.3		ug/kg	50.0	83%	10 - 156	9012741	NSA1598-08	01/27/09 21:32
1,2-Dibromo-3-chloropropane	ND	41.3		ug/kg	50.0	83%	10 - 159	9012741	NSA1598-08	01/27/09 21:32
1,2-Dibromoethane (EDB)	ND	48.7		ug/kg	50.0	97%	19 - 151	9012741	NSA1598-08	01/27/09 21:32
Dibromomethane	ND	45.2		ug/kg	50.0	90%	32 - 147	9012741	NSA1598-08	01/27/09 21:32
1,4-Dichlorobenzene	ND	37.5		ug/kg	50.0	75%	10 - 152	9012741	NSA1598-08	01/27/09 21:32
1,3-Dichlorobenzene	ND	39.0		ug/kg	50.0	78%	10 - 153	9012741	NSA1598-08	01/27/09 21:32
1,2-Dichlorobenzene	ND	39.8		ug/kg	50.0	80%	10 - 155	9012741	NSA1598-08	01/27/09 21:32
Dichlorodifluoromethane	ND	39.3		ug/kg	50.0	79%	10 - 143	9012741	NSA1598-08	01/27/09 21:32
1,1-Dichloroethane	ND	46.3		ug/kg	50.0	93%	49 - 156	9012741	NSA1598-08	01/27/09 21:32
1,2-Dichloroethane	ND	48.1		ug/kg	50.0	96%	27 - 145	9012741	NSA1598-08	01/27/09 21:32
cis-1,2-Dichloroethene	ND	45.9		ug/kg	50.0	92%	39 - 143	9012741	NSA1598-08	01/27/09 21:32
1,1-Dichloroethene	ND	43.9		ug/kg	50.0	88%	42 - 145	9012741	NSA1598-08	01/27/09 21:32
trans-1,2-Dichloroethene	ND	46.8		ug/kg	50.0	94%	41 - 146	9012741	NSA1598-08	01/27/09 21:32
1,3-Dichloropropane	ND	51.4		ug/kg	50.0	103%	30 - 143	9012741	NSA1598-08	01/27/09 21:32
1,2-Dichloropropane	ND	42.0		ug/kg	50.0	84%	37 - 136	9012741	NSA1598-08	01/27/09 21:32
2,2-Dichloropropane	ND	42.5		ug/kg	50.0	85%	30 - 145	9012741	NSA1598-08	01/27/09 21:32
cis-1,3-Dichloropropene	ND	45.7		ug/kg	50.0	91%	29 - 149	9012741	NSA1598-08	01/27/09 21:32
trans-1,3-Dichloropropene	ND	43.8		ug/kg	50.0	88%	17 - 146	9012741	NSA1598-08	01/27/09 21:32
1,1-Dichloropropene	ND	45.6		ug/kg	50.0	91%	36 - 147	9012741	NSA1598-08	01/27/09 21:32
Ethylbenzene	ND	43.8		ug/kg	50.0	88%	16 - 160	9012741	NSA1598-08	01/27/09 21:32
Hexachlorobutadiene	ND	47.0		ug/kg	50.0	94%	10 - 191	9012741	NSA1598-08	01/27/09 21:32
2-Hexanone	ND	235		ug/kg	250	94%	19 - 154	9012741	NSA1598-08	01/27/09 21:32
Isopropylbenzene	ND	46.8		ug/kg	50.0	94%	16 - 156	9012741	NSA1598-08	01/27/09 21:32

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9012741-MS1										
p-Isopropyltoluene	ND	35.5		ug/kg	50.0	71%	13 - 160	9012741	NSA1598-08	01/27/09 21:32
Methyl tert-Butyl Ether	ND	46.8		ug/kg	50.0	94%	30 - 136	9012741	NSA1598-08	01/27/09 21:32
Methylene Chloride	ND	45.6		ug/kg	50.0	91%	31 - 160	9012741	NSA1598-08	01/27/09 21:32
4-Methyl-2-pentanone	ND	250		ug/kg	250	100%	25 - 149	9012741	NSA1598-08	01/27/09 21:32
Naphthalene	ND	30.4		ug/kg	50.0	61%	10 - 151	9012741	NSA1598-08	01/27/09 21:32
n-Propylbenzene	ND	43.1		ug/kg	50.0	86%	17 - 158	9012741	NSA1598-08	01/27/09 21:32
Styrene	ND	3.70	M8	ug/kg	50.0	7%	11 - 168	9012741	NSA1598-08	01/27/09 21:32
1,1,1,2-Tetrachloroethane	ND	45.3		ug/kg	50.0	91%	30 - 147	9012741	NSA1598-08	01/27/09 21:32
1,1,2,2-Tetrachloroethane	ND	46.2		ug/kg	50.0	92%	20 - 155	9012741	NSA1598-08	01/27/09 21:32
Tetrachloroethene	ND	50.4		ug/kg	50.0	101%	27 - 151	9012741	NSA1598-08	01/27/09 21:32
Toluene	ND	53.0		ug/kg	50.0	106%	30 - 145	9012741	NSA1598-08	01/27/09 21:32
1,2,3-Trichlorobenzene	ND	31.8		ug/kg	50.0	64%	10 - 158	9012741	NSA1598-08	01/27/09 21:32
1,2,4-Trichlorobenzene	ND	32.1		ug/kg	50.0	64%	10 - 160	9012741	NSA1598-08	01/27/09 21:32
1,1,2-Trichloroethane	ND	49.2		ug/kg	50.0	98%	34 - 140	9012741	NSA1598-08	01/27/09 21:32
1,1,1-Trichloroethane	ND	48.9		ug/kg	50.0	98%	36 - 150	9012741	NSA1598-08	01/27/09 21:32
Trichloroethene	ND	44.0		ug/kg	50.0	88%	33 - 145	9012741	NSA1598-08	01/27/09 21:32
Trichlorofluoromethane	ND	48.5		ug/kg	50.0	97%	31 - 150	9012741	NSA1598-08	01/27/09 21:32
1,2,3-Trichloropropane	ND	43.5		ug/kg	50.0	87%	14 - 143	9012741	NSA1598-08	01/27/09 21:32
1,3,5-Trimethylbenzene	ND	41.7		ug/kg	50.0	83%	20 - 158	9012741	NSA1598-08	01/27/09 21:32
1,2,4-Trimethylbenzene	ND	32.8		ug/kg	50.0	66%	10 - 166	9012741	NSA1598-08	01/27/09 21:32
Vinyl chloride	ND	42.4		ug/kg	50.0	85%	32 - 144	9012741	NSA1598-08	01/27/09 21:32
Xylenes, total	ND	131		ug/kg	150	88%	16 - 159	9012741	NSA1598-08	01/27/09 21:32
Surrogate: 1,2-Dichloroethane-d4		58.8		ug/kg	50.0	118%	41 - 150	9012741	NSA1598-08	01/27/09 21:32
Surrogate: Dibromofluoromethane		51.9		ug/kg	50.0	104%	55 - 139	9012741	NSA1598-08	01/27/09 21:32
Surrogate: Toluene-d8		56.0		ug/kg	50.0	112%	57 - 148	9012741	NSA1598-08	01/27/09 21:32
Surrogate: 4-Bromofluorobenzene		53.4		ug/kg	50.0	107%	58 - 150	9012741	NSA1598-08	01/27/09 21:32
9013158-MS1										
Acetone	ND	345		mg/kg	250	138%	32 - 163	9013158	NSA1760-01RE2	01/31/09 03:42
Benzene	ND	55.6		mg/kg	50.0	111%	33 - 146	9013158	NSA1760-01RE2	01/31/09 03:42
Bromobenzene	ND	42.8		mg/kg	50.0	86%	10 - 156	9013158	NSA1760-01RE2	01/31/09 03:42
Bromochloromethane	ND	56.1		mg/kg	50.0	112%	43 - 138	9013158	NSA1760-01RE2	01/31/09 03:42
Bromodichloromethane	ND	54.4		mg/kg	50.0	109%	31 - 149	9013158	NSA1760-01RE2	01/31/09 03:42
Bromoform	ND	57.7		mg/kg	50.0	115%	14 - 167	9013158	NSA1760-01RE2	01/31/09 03:42

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9013158-MS1										
Bromomethane	ND	58.4		mg/kg	50.0	117%	16 - 172	9013158	NSA1760-01RE2	01/31/09 03:42
2-Butanone	ND	347		mg/kg	250	139%	37 - 151	9013158	NSA1760-01RE2	01/31/09 03:42
sec-Butylbenzene	30.8	52.9		mg/kg	50.0	44%	18 - 165	9013158	NSA1760-01RE2	01/31/09 03:42
n-Butylbenzene	218	85.5	MHA	mg/kg	50.0	-264%	10 - 168	9013158	NSA1760-01RE2	01/31/09 03:42
tert-Butylbenzene	ND	49.2		mg/kg	50.0	98%	17 - 165	9013158	NSA1760-01RE2	01/31/09 03:42
Carbon disulfide	ND	53.3		mg/kg	50.0	107%	34 - 147	9013158	NSA1760-01RE2	01/31/09 03:42
Carbon Tetrachloride	ND	54.5		mg/kg	50.0	109%	33 - 155	9013158	NSA1760-01RE2	01/31/09 03:42
Chlorobenzene	ND	50.2		mg/kg	50.0	100%	23 - 147	9013158	NSA1760-01RE2	01/31/09 03:42
Chlorodibromomethane	ND	51.6		mg/kg	50.0	103%	21 - 155	9013158	NSA1760-01RE2	01/31/09 03:42
Chloroethane	ND	45.4		mg/kg	50.0	91%	44 - 155	9013158	NSA1760-01RE2	01/31/09 03:42
Chloroform	ND	55.5		mg/kg	50.0	111%	39 - 140	9013158	NSA1760-01RE2	01/31/09 03:42
Chloromethane	ND	40.6		mg/kg	50.0	81%	14 - 143	9013158	NSA1760-01RE2	01/31/09 03:42
2-Chlorotoluene	ND	80.9	M7	mg/kg	50.0	162%	21 - 154	9013158	NSA1760-01RE2	01/31/09 03:42
4-Chlorotoluene	ND	55.3		mg/kg	50.0	111%	10 - 156	9013158	NSA1760-01RE2	01/31/09 03:42
1,2-Dibromo-3-chloropropane	ND	57.7		mg/kg	50.0	115%	10 - 159	9013158	NSA1760-01RE2	01/31/09 03:42
1,2-Dibromoethane (EDB)	ND	54.4		mg/kg	50.0	109%	19 - 151	9013158	NSA1760-01RE2	01/31/09 03:42
Dibromomethane	ND	59.0		mg/kg	50.0	118%	32 - 147	9013158	NSA1760-01RE2	01/31/09 03:42
1,4-Dichlorobenzene	ND	48.8		mg/kg	50.0	98%	10 - 152	9013158	NSA1760-01RE2	01/31/09 03:42
1,3-Dichlorobenzene	ND	47.5		mg/kg	50.0	95%	10 - 153	9013158	NSA1760-01RE2	01/31/09 03:42
1,2-Dichlorobenzene	ND	48.9		mg/kg	50.0	98%	10 - 155	9013158	NSA1760-01RE2	01/31/09 03:42
Dichlorodifluoromethane	ND	33.0		mg/kg	50.0	66%	10 - 143	9013158	NSA1760-01RE2	01/31/09 03:42
1,1-Dichloroethane	ND	52.5		mg/kg	50.0	105%	49 - 156	9013158	NSA1760-01RE2	01/31/09 03:42
1,2-Dichloroethane	ND	56.4		mg/kg	50.0	113%	27 - 145	9013158	NSA1760-01RE2	01/31/09 03:42
cis-1,2-Dichloroethene	ND	55.4		mg/kg	50.0	111%	39 - 143	9013158	NSA1760-01RE2	01/31/09 03:42

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9013158-MS1										
1,1-Dichloroethene	ND	56.5		mg/kg	50.0	113%	42 - 145	9013158	NSA1760-01RE2	01/31/09 03:42
trans-1,2-Dichloroethene	ND	54.7		mg/kg	50.0	109%	41 - 146	9013158	NSA1760-01RE2	01/31/09 03:42
1,3-Dichloropropane	ND	52.0		mg/kg	50.0	104%	30 - 143	9013158	NSA1760-01RE2	01/31/09 03:42
1,2-Dichloropropane	ND	52.4		mg/kg	50.0	105%	37 - 136	9013158	NSA1760-01RE2	01/31/09 03:42
2,2-Dichloropropane	ND	51.6		mg/kg	50.0	103%	30 - 145	9013158	NSA1760-01RE2	01/31/09 03:42
cis-1,3-Dichloropropene	ND	48.8		mg/kg	50.0	98%	29 - 149	9013158	NSA1760-01RE2	01/31/09 03:42
trans-1,3-Dichloropropene	ND	48.8		mg/kg	50.0	98%	17 - 146	9013158	NSA1760-01RE2	01/31/09 03:42
1,1-Dichloropropene	ND	56.0		mg/kg	50.0	112%	36 - 147	9013158	NSA1760-01RE2	01/31/09 03:42
Ethylbenzene	145	75.4	M8	mg/kg	50.0	-139%	16 - 160	9013158	NSA1760-01RE2	01/31/09 03:42
Hexachlorobutadiene	ND	54.8		mg/kg	50.0	110%	10 - 191	9013158	NSA1760-01RE2	01/31/09 03:42
2-Hexanone	ND	296		mg/kg	250	118%	19 - 154	9013158	NSA1760-01RE2	01/31/09 03:42
Isopropylbenzene	44.8	60.8		mg/kg	50.0	32%	16 - 156	9013158	NSA1760-01RE2	01/31/09 03:42
p-Isopropyltoluene	21.7	51.3		mg/kg	50.0	59%	13 - 160	9013158	NSA1760-01RE2	01/31/09 03:42
Methyl tert-Butyl Ether	ND	57.9		mg/kg	50.0	116%	30 - 136	9013158	NSA1760-01RE2	01/31/09 03:42
Methylene Chloride	ND	54.0		mg/kg	50.0	108%	31 - 160	9013158	NSA1760-01RE2	01/31/09 03:42
4-Methyl-2-pentanone	ND	284		mg/kg	250	113%	25 - 149	9013158	NSA1760-01RE2	01/31/09 03:42
Naphthalene	552	136	MHA	mg/kg	50.0	-832%	10 - 151	9013158	NSA1760-01RE2	01/31/09 03:42
n-Propylbenzene	192	80.9	MHA	mg/kg	50.0	-223%	17 - 158	9013158	NSA1760-01RE2	01/31/09 03:42
Styrene	ND	55.6		mg/kg	50.0	111%	11 - 168	9013158	NSA1760-01RE2	01/31/09 03:42
1,1,1,2-Tetrachloroethane	ND	51.6		mg/kg	50.0	103%	30 - 147	9013158	NSA1760-01RE2	01/31/09 03:42
1,1,2,2-Tetrachloroethane	ND	53.5		mg/kg	50.0	107%	20 - 155	9013158	NSA1760-01RE2	01/31/09 03:42
Tetrachloroethene	ND	51.6		mg/kg	50.0	103%	27 - 151	9013158	NSA1760-01RE2	01/31/09 03:42
Toluene	134	72.9	M8	mg/kg	50.0	-123%	30 - 145	9013158	NSA1760-01RE2	01/31/09 03:42
1,2,3-Trichlorobenzene	ND	50.1		mg/kg	50.0	100%	10 - 158	9013158	NSA1760-01RE2	01/31/09 03:42

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9013158-MS1										
1,2,4-Trichlorobenzene	ND	50.2		mg/kg	50.0	100%	10 - 160	9013158	NSA1760-01RE2	01/31/09 03:42
1,1,2-Trichloroethane	ND	52.3		mg/kg	50.0	105%	34 - 140	9013158	NSA1760-01RE2	01/31/09 03:42
1,1,1-Trichloroethane	ND	54.4		mg/kg	50.0	109%	36 - 150	9013158	NSA1760-01RE2	01/31/09 03:42
Trichloroethene	ND	56.8		mg/kg	50.0	114%	33 - 145	9013158	NSA1760-01RE2	01/31/09 03:42
Trichlorofluoromethane	ND	49.4		mg/kg	50.0	99%	31 - 150	9013158	NSA1760-01RE2	01/31/09 03:42
1,2,3-Trichloropropane	ND	49.5		mg/kg	50.0	99%	14 - 143	9013158	NSA1760-01RE2	01/31/09 03:42
1,3,5-Trimethylbenzene	525	139	MHA	mg/kg	50.0	-771%	20 - 158	9013158	NSA1760-01RE2	01/31/09 03:42
1,2,4-Trimethylbenzene	1910	378	MHA	mg/kg	50.0	-3060%	10 - 166	9013158	NSA1760-01RE2	01/31/09 03:42
Vinyl chloride	ND	45.2		mg/kg	50.0	90%	32 - 144	9013158	NSA1760-01RE2	01/31/09 03:42
Xylenes, total	1370	384	M8	mg/kg	150	-655%	16 - 159	9013158	NSA1760-01RE2	01/31/09 03:42
Surrogate: 1,2-Dichloroethane-d4		51.9		ug/kg	50.0	104%	41 - 150	9013158	NSA1760-01RE2	01/31/09 03:42
Surrogate: Dibromofluoromethane		52.1		ug/kg	50.0	104%	55 - 139	9013158	NSA1760-01RE2	01/31/09 03:42
Surrogate: Toluene-d8		47.7		ug/kg	50.0	95%	57 - 148	9013158	NSA1760-01RE2	01/31/09 03:42
Surrogate: 4-Bromofluorobenzene		48.1		ug/kg	50.0	96%	58 - 150	9013158	NSA1760-01RE2	01/31/09 03:42
9013425-MS1										
Acetone	ND	16.4		mg/kg	12.0	137%	32 - 163	9013425	NSA1598-02RE1	01/29/09 22:16
Benzene	0.0441	2.17		mg/kg	2.39	89%	33 - 146	9013425	NSA1598-02RE1	01/29/09 22:16
Bromobenzene	ND	1.80		mg/kg	2.39	75%	10 - 156	9013425	NSA1598-02RE1	01/29/09 22:16
Bromochloromethane	ND	2.13		mg/kg	2.39	89%	43 - 138	9013425	NSA1598-02RE1	01/29/09 22:16
Bromodichloromethane	ND	2.05		mg/kg	2.39	86%	31 - 149	9013425	NSA1598-02RE1	01/29/09 22:16
Bromoform	ND	2.00		mg/kg	2.39	83%	14 - 167	9013425	NSA1598-02RE1	01/29/09 22:16
Bromomethane	0.208	1.47		mg/kg	2.39	53%	16 - 172	9013425	NSA1598-02RE1	01/29/09 22:16
2-Butanone	ND	12.9		mg/kg	12.0	108%	37 - 151	9013425	NSA1598-02RE1	01/29/09 22:16
sec-Butylbenzene	0.992	2.96		mg/kg	2.39	82%	18 - 165	9013425	NSA1598-02RE1	01/29/09 22:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9013425-MS1										
n-Butylbenzene	4.37	6.17		mg/kg	2.39	75%	10 - 168	9013425	NSA1598-02RE1	01/29/09 22:16
tert-Butylbenzene	ND	2.00		mg/kg	2.39	84%	17 - 165	9013425	NSA1598-02RE1	01/29/09 22:16
Carbon disulfide	ND	1.96		mg/kg	2.39	82%	34 - 147	9013425	NSA1598-02RE1	01/29/09 22:16
Carbon Tetrachloride	ND	2.03		mg/kg	2.39	85%	33 - 155	9013425	NSA1598-02RE1	01/29/09 22:16
Chlorobenzene	ND	2.06		mg/kg	2.39	86%	23 - 147	9013425	NSA1598-02RE1	01/29/09 22:16
Chlorodibromomethane	ND	1.91		mg/kg	2.39	80%	21 - 155	9013425	NSA1598-02RE1	01/29/09 22:16
Chloroethane	ND	0.338	M8	mg/kg	2.39	14%	44 - 155	9013425	NSA1598-02RE1	01/29/09 22:16
Chloroform	ND	2.10		mg/kg	2.39	88%	39 - 140	9013425	NSA1598-02RE1	01/29/09 22:16
Chloromethane	ND	1.67		mg/kg	2.39	70%	14 - 143	9013425	NSA1598-02RE1	01/29/09 22:16
2-Chlorotoluene	ND	3.02		mg/kg	2.39	127%	21 - 154	9013425	NSA1598-02RE1	01/29/09 22:16
4-Chlorotoluene	ND	2.34		mg/kg	2.39	98%	10 - 156	9013425	NSA1598-02RE1	01/29/09 22:16
1,2-Dibromo-3-chloropropane	ND	1.75		mg/kg	2.39	73%	10 - 159	9013425	NSA1598-02RE1	01/29/09 22:16
1,2-Dibromoethane (EDB)	ND	1.99		mg/kg	2.39	83%	19 - 151	9013425	NSA1598-02RE1	01/29/09 22:16
Dibromomethane	ND	2.14		mg/kg	2.39	89%	32 - 147	9013425	NSA1598-02RE1	01/29/09 22:16
1,4-Dichlorobenzene	ND	2.13		mg/kg	2.39	89%	10 - 152	9013425	NSA1598-02RE1	01/29/09 22:16
1,3-Dichlorobenzene	ND	2.11		mg/kg	2.39	88%	10 - 153	9013425	NSA1598-02RE1	01/29/09 22:16
1,2-Dichlorobenzene	ND	2.07		mg/kg	2.39	87%	10 - 155	9013425	NSA1598-02RE1	01/29/09 22:16
Dichlorodifluoromethane	ND	0.356		mg/kg	2.39	15%	10 - 143	9013425	NSA1598-02RE1	01/29/09 22:16
1,1-Dichloroethane	ND	2.08		mg/kg	2.39	87%	49 - 156	9013425	NSA1598-02RE1	01/29/09 22:16
1,2-Dichloroethane	ND	2.08		mg/kg	2.39	87%	27 - 145	9013425	NSA1598-02RE1	01/29/09 22:16
cis-1,2-Dichloroethene	ND	2.15		mg/kg	2.39	90%	39 - 143	9013425	NSA1598-02RE1	01/29/09 22:16
1,1-Dichloroethene	ND	2.00		mg/kg	2.39	84%	42 - 145	9013425	NSA1598-02RE1	01/29/09 22:16
trans-1,2-Dichloroethene	ND	2.17		mg/kg	2.39	91%	41 - 146	9013425	NSA1598-02RE1	01/29/09 22:16
1,3-Dichloropropane	ND	1.96		mg/kg	2.39	82%	30 - 143	9013425	NSA1598-02RE1	01/29/09 22:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9013425-MS1										
1,2-Dichloropropane	ND	2.00		mg/kg	2.39	84%	37 - 136	9013425	NSA1598-02RE1	01/29/09 22:16
2,2-Dichloropropane	ND	2.00		mg/kg	2.39	84%	30 - 145	9013425	NSA1598-02RE1	01/29/09 22:16
cis-1,3-Dichloropropene	ND	1.85		mg/kg	2.39	77%	29 - 149	9013425	NSA1598-02RE1	01/29/09 22:16
trans-1,3-Dichloropropene	ND	1.88		mg/kg	2.39	79%	17 - 146	9013425	NSA1598-02RE1	01/29/09 22:16
1,1-Dichloropropene	ND	2.21		mg/kg	2.39	92%	36 - 147	9013425	NSA1598-02RE1	01/29/09 22:16
Ethylbenzene	1.62	3.56		mg/kg	2.39	82%	16 - 160	9013425	NSA1598-02RE1	01/29/09 22:16
Hexachlorobutadiene	ND	2.54		mg/kg	2.39	106%	10 - 191	9013425	NSA1598-02RE1	01/29/09 22:16
2-Hexanone	ND	10.7		mg/kg	12.0	89%	19 - 154	9013425	NSA1598-02RE1	01/29/09 22:16
Isopropylbenzene	0.928	3.12		mg/kg	2.39	92%	16 - 156	9013425	NSA1598-02RE1	01/29/09 22:16
p-Isopropyltoluene	0.455	2.55		mg/kg	2.39	88%	13 - 160	9013425	NSA1598-02RE1	01/29/09 22:16
Methyl tert-Butyl Ether	ND	2.14		mg/kg	2.39	89%	30 - 136	9013425	NSA1598-02RE1	01/29/09 22:16
Methylene Chloride	ND	2.02		mg/kg	2.39	85%	31 - 160	9013425	NSA1598-02RE1	01/29/09 22:16
4-Methyl-2-pentanone	ND	9.73		mg/kg	12.0	81%	25 - 149	9013425	NSA1598-02RE1	01/29/09 22:16
Naphthalene	4.92	7.28		mg/kg	2.39	99%	10 - 151	9013425	NSA1598-02RE1	01/29/09 22:16
n-Propylbenzene	3.86	5.47		mg/kg	2.39	67%	17 - 158	9013425	NSA1598-02RE1	01/29/09 22:16
Styrene	ND	2.30		mg/kg	2.39	96%	11 - 168	9013425	NSA1598-02RE1	01/29/09 22:16
1,1,1,2-Tetrachloroethane	ND	1.96		mg/kg	2.39	82%	30 - 147	9013425	NSA1598-02RE1	01/29/09 22:16
1,1,2,2-Tetrachloroethane	ND	1.87		mg/kg	2.39	78%	20 - 155	9013425	NSA1598-02RE1	01/29/09 22:16
Tetrachloroethene	ND	2.23		mg/kg	2.39	93%	27 - 151	9013425	NSA1598-02RE1	01/29/09 22:16
Toluene	0.224	2.22		mg/kg	2.39	83%	30 - 145	9013425	NSA1598-02RE1	01/29/09 22:16
1,2,3-Trichlorobenzene	ND	2.18		mg/kg	2.39	91%	10 - 158	9013425	NSA1598-02RE1	01/29/09 22:16
1,2,4-Trichlorobenzene	ND	2.36		mg/kg	2.39	99%	10 - 160	9013425	NSA1598-02RE1	01/29/09 22:16
1,1,2-Trichloroethane	ND	1.96		mg/kg	2.39	82%	34 - 140	9013425	NSA1598-02RE1	01/29/09 22:16
1,1,1-Trichloroethane	ND	2.05		mg/kg	2.39	86%	36 - 150	9013425	NSA1598-02RE1	01/29/09 22:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9013425-MS1										
Trichloroethene	ND	2.22		mg/kg	2.39	93%	33 - 145	9013425	NSA1598-02RE1	01/29/09 22:16
Trichlorofluoromethane	ND	1.23		mg/kg	2.39	51%	31 - 150	9013425	NSA1598-02RE1	01/29/09 22:16
1,2,3-Trichloropropane	ND	1.56		mg/kg	2.39	65%	14 - 143	9013425	NSA1598-02RE1	01/29/09 22:16
1,3,5-Trimethylbenzene	3.53	5.29		mg/kg	2.39	74%	20 - 158	9013425	NSA1598-02RE1	01/29/09 22:16
1,2,4-Trimethylbenzene	17.2	17.9		mg/kg	2.39	28%	10 - 166	9013425	NSA1598-02RE1	01/29/09 22:16
Vinyl chloride	ND	0.607	M8	mg/kg	2.39	25%	32 - 144	9013425	NSA1598-02RE1	01/29/09 22:16
Xylenes, total	4.15	10.1		mg/kg	7.17	83%	16 - 159	9013425	NSA1598-02RE1	01/29/09 22:16
Surrogate: 1,2-Dichloroethane-d4		50.4		ug/kg	50.0	101%	41 - 150	9013425	NSA1598-02RE1	01/29/09 22:16
Surrogate: Dibromofluoromethane		50.5		ug/kg	50.0	101%	55 - 139	9013425	NSA1598-02RE1	01/29/09 22:16
Surrogate: Toluene-d8		49.1		ug/kg	50.0	98%	57 - 148	9013425	NSA1598-02RE1	01/29/09 22:16
Surrogate: 4-Bromofluorobenzene		56.5		ug/kg	50.0	113%	58 - 150	9013425	NSA1598-02RE1	01/29/09 22:16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012636-MSD1												
Acetone	109000	102000	MHA	ug/kg	250	-2640%	32 - 163	0.8	45	9012636	NSA1538-03	01/27/09 23:04
Benzene	8.18	43.7		ug/kg	50.0	71%	33 - 146	6	43	9012636	NSA1538-03	01/27/09 23:04
Bromobenzene	ND	34.3		ug/kg	50.0	69%	10 - 156	2	50	9012636	NSA1538-03	01/27/09 23:04
Bromochloromethane	ND	27.5		ug/kg	50.0	55%	43 - 138	0.5	32	9012636	NSA1538-03	01/27/09 23:04
Bromodichloromethane	ND	31.8		ug/kg	50.0	64%	31 - 149	0.5	37	9012636	NSA1538-03	01/27/09 23:04
Bromoform	ND	21.8		ug/kg	50.0	44%	14 - 167	3	50	9012636	NSA1538-03	01/27/09 23:04
Bromomethane	ND	39.6		ug/kg	50.0	79%	16 - 172	4	50	9012636	NSA1538-03	01/27/09 23:04
2-Butanone	9420	10900	MHA	ug/kg	250	576%	37 - 151	16	43	9012636	NSA1538-03	01/27/09 23:04
sec-Butylbenzene	ND	41.0		ug/kg	50.0	82%	18 - 165	5	50	9012636	NSA1538-03	01/27/09 23:04
n-Butylbenzene	1.84	40.0		ug/kg	50.0	76%	10 - 168	6	50	9012636	NSA1538-03	01/27/09 23:04
tert-Butylbenzene	ND	40.3		ug/kg	50.0	81%	17 - 165	7	50	9012636	NSA1538-03	01/27/09 23:04
Carbon disulfide	ND	1.64	M2	ug/kg	50.0	3%	34 - 147	0	47	9012636	NSA1538-03	01/27/09 23:04
Carbon Tetrachloride	ND	34.0		ug/kg	50.0	68%	33 - 155	10	44	9012636	NSA1538-03	01/27/09 23:04
Chlorobenzene	ND	36.2		ug/kg	50.0	72%	23 - 147	4	44	9012636	NSA1538-03	01/27/09 23:04
Chlorodibromomethane	ND	31.2		ug/kg	50.0	62%	21 - 155	2	45	9012636	NSA1538-03	01/27/09 23:04
Chloroethane	ND	35.0		ug/kg	50.0	70%	44 - 155	5	50	9012636	NSA1538-03	01/27/09 23:04
Chloroform	ND	37.0		ug/kg	50.0	74%	39 - 140	3	36	9012636	NSA1538-03	01/27/09 23:04
Chloromethane	ND	31.4		ug/kg	50.0	63%	14 - 143	6	50	9012636	NSA1538-03	01/27/09 23:04
2-Chlorotoluene	ND	44.0		ug/kg	50.0	88%	21 - 154	7	50	9012636	NSA1538-03	01/27/09 23:04
4-Chlorotoluene	ND	38.9		ug/kg	50.0	78%	10 - 156	7	50	9012636	NSA1538-03	01/27/09 23:04
1,2-Dibromo-3-chloropropane	ND	23.0		ug/kg	50.0	46%	10 - 159	3	50	9012636	NSA1538-03	01/27/09 23:04
1,2-Dibromoethane (EDB)	ND	30.9		ug/kg	50.0	62%	19 - 151	0.3	50	9012636	NSA1538-03	01/27/09 23:04
Dibromomethane	ND	28.4		ug/kg	50.0	57%	32 - 147	0.2	45	9012636	NSA1538-03	01/27/09 23:04
1,4-Dichlorobenzene	ND	32.7		ug/kg	50.0	65%	10 - 152	3	50	9012636	NSA1538-03	01/27/09 23:04
1,3-Dichlorobenzene	ND	34.6		ug/kg	50.0	69%	10 - 153	4	50	9012636	NSA1538-03	01/27/09 23:04
1,2-Dichlorobenzene	ND	30.8		ug/kg	50.0	62%	10 - 155	3	50	9012636	NSA1538-03	01/27/09 23:04
Dichlorodifluoromethane	ND	27.3		ug/kg	50.0	55%	10 - 143	6	43	9012636	NSA1538-03	01/27/09 23:04
1,1-Dichloroethane	ND	32.5		ug/kg	50.0	65%	49 - 156	5	37	9012636	NSA1538-03	01/27/09 23:04
1,2-Dichloroethane	ND	31.2		ug/kg	50.0	62%	27 - 145	5	44	9012636	NSA1538-03	01/27/09 23:04
cis-1,2-Dichloroethene	ND	34.9		ug/kg	50.0	70%	39 - 143	5	35	9012636	NSA1538-03	01/27/09 23:04
1,1-Dichloroethene	ND	8.67	M2	ug/kg	50.0	17%	42 - 145	13	41	9012636	NSA1538-03	01/27/09 23:04
trans-1,2-Dichloroethene	ND	37.2		ug/kg	50.0	74%	41 - 146	7	37	9012636	NSA1538-03	01/27/09 23:04
1,3-Dichloropropane	ND	31.4		ug/kg	50.0	63%	30 - 143	3	44	9012636	NSA1538-03	01/27/09 23:04
1,2-Dichloropropane	ND	32.9		ug/kg	50.0	66%	37 - 136	0	35	9012636	NSA1538-03	01/27/09 23:04
2,2-Dichloropropane	ND	33.7		ug/kg	50.0	67%	30 - 145	7	33	9012636	NSA1538-03	01/27/09 23:04
cis-1,3-Dichloropropene	ND	32.8		ug/kg	50.0	66%	29 - 149	3	43	9012636	NSA1538-03	01/27/09 23:04
trans-1,3-Dichloropropene	ND	29.0		ug/kg	50.0	58%	17 - 146	4	50	9012636	NSA1538-03	01/27/09 23:04
1,1-Dichloropropene	ND	41.5		ug/kg	50.0	83%	36 - 147	5	41	9012636	NSA1538-03	01/27/09 23:04
Ethylbenzene	174	252		ug/kg	50.0	155%	16 - 160	25	48	9012636	NSA1538-03	01/27/09 23:04
Hexachlorobutadiene	ND	34.1		ug/kg	50.0	68%	10 - 191	3	50	9012636	NSA1538-03	01/27/09 23:04
2-Hexanone	ND	129		ug/kg	250	52%	19 - 154	8	50	9012636	NSA1538-03	01/27/09 23:04

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012636-MSD1												
Isopropylbenzene	5.85	47.7		ug/kg	50.0	84%	16 - 156	8	50	9012636	NSA1538-03	01/27/09 23:04
p-Isopropyltoluene	ND	39.9		ug/kg	50.0	80%	13 - 160	6	50	9012636	NSA1538-03	01/27/09 23:04
Methyl tert-Butyl Ether	ND	23.6		ug/kg	50.0	47%	30 - 136	11	45	9012636	NSA1538-03	01/27/09 23:04
Methylene Chloride	ND	25.7		ug/kg	50.0	51%	31 - 160	28	39	9012636	NSA1538-03	01/27/09 23:04
4-Methyl-2-pentanone	2640	2130	M1	ug/kg	250	-204%	25 - 149	29	50	9012636	NSA1538-03	01/27/09 23:04
Naphthalene	3.57	28.5		ug/kg	50.0	50%	10 - 151	1	50	9012636	NSA1538-03	01/27/09 23:04
n-Propylbenzene	5.95	45.8		ug/kg	50.0	80%	17 - 158	9	50	9012636	NSA1538-03	01/27/09 23:04
Styrene	ND	57.0		ug/kg	50.0	114%	11 - 168	13	50	9012636	NSA1538-03	01/27/09 23:04
1,1,1,2-Tetrachloroethane	ND	34.8		ug/kg	50.0	70%	30 - 147	2	43	9012636	NSA1538-03	01/27/09 23:04
1,1,2,2-Tetrachloroethane	ND	27.6		ug/kg	50.0	55%	20 - 155	0.7	50	9012636	NSA1538-03	01/27/09 23:04
Tetrachloroethene	ND	48.6		ug/kg	50.0	97%	27 - 151	6	45	9012636	NSA1538-03	01/27/09 23:04
Toluene	2010	2310	MHA	ug/kg	50.0	594%	30 - 145	13	44	9012636	NSA1538-03	01/27/09 23:04
1,2,3-Trichlorobenzene	ND	21.8		ug/kg	50.0	44%	10 - 158	4	50	9012636	NSA1538-03	01/27/09 23:04
1,2,4-Trichlorobenzene	ND	27.0		ug/kg	50.0	54%	10 - 160	0.2	50	9012636	NSA1538-03	01/27/09 23:04
1,1,2-Trichloroethane	ND	46.4		ug/kg	50.0	93%	34 - 140	14	41	9012636	NSA1538-03	01/27/09 23:04
1,1,1-Trichloroethane	ND	40.8		ug/kg	50.0	82%	36 - 150	4	39	9012636	NSA1538-03	01/27/09 23:04
Trichloroethene	ND	41.4		ug/kg	50.0	83%	33 - 145	4	40	9012636	NSA1538-03	01/27/09 23:04
Trichlorofluoromethane	ND	4.29	M2	ug/kg	50.0	9%	31 - 150	25	42	9012636	NSA1538-03	01/27/09 23:04
1,2,3-Trichloropropane	ND	23.7		ug/kg	50.0	47%	14 - 143	2	50	9012636	NSA1538-03	01/27/09 23:04
1,3,5-Trimethylbenzene	14.7	53.8		ug/kg	50.0	78%	20 - 158	9	50	9012636	NSA1538-03	01/27/09 23:04
1,2,4-Trimethylbenzene	84.3	130		ug/kg	50.0	91%	10 - 166	11	50	9012636	NSA1538-03	01/27/09 23:04
Vinyl chloride	ND	31.2		ug/kg	50.0	62%	32 - 144	11	41	9012636	NSA1538-03	01/27/09 23:04
Xylenes, total	1230	1450		ug/kg	150	147%	16 - 159	15	48	9012636	NSA1538-03	01/27/09 23:04
Surrogate: 1,2-Dichloroethane-d4		56.3		ug/kg	50.0	113%	41 - 150			9012636	NSA1538-03	01/27/09 23:04
Surrogate: Dibromofluoromethane		51.1		ug/kg	50.0	102%	55 - 139			9012636	NSA1538-03	01/27/09 23:04
Surrogate: Toluene-d8		22.2	ZX	ug/kg	50.0	44%	57 - 148			9012636	NSA1538-03	01/27/09 23:04
Surrogate: 4-Bromofluorobenzene		55.0		ug/kg	50.0	110%	58 - 150			9012636	NSA1538-03	01/27/09 23:04
9012741-MSD1												
Acetone	36.8	364		ug/kg	250	131%	32 - 163	24	45	9012741	NSA1598-08	01/27/09 22:02
Benzene	ND	39.4		ug/kg	50.0	79%	33 - 146	12	43	9012741	NSA1598-08	01/27/09 22:02
Bromobenzene	ND	35.2		ug/kg	50.0	70%	10 - 156	20	50	9012741	NSA1598-08	01/27/09 22:02
Bromochloromethane	ND	37.6		ug/kg	50.0	75%	43 - 138	18	32	9012741	NSA1598-08	01/27/09 22:02
Bromodichloromethane	ND	38.0		ug/kg	50.0	76%	31 - 149	14	37	9012741	NSA1598-08	01/27/09 22:02
Bromoform	ND	30.9		ug/kg	50.0	62%	14 - 167	23	50	9012741	NSA1598-08	01/27/09 22:02
Bromomethane	ND	42.7		ug/kg	50.0	85%	16 - 172	9	50	9012741	NSA1598-08	01/27/09 22:02
2-Butanone	ND	175		ug/kg	250	70%	37 - 151	30	43	9012741	NSA1598-08	01/27/09 22:02
sec-Butylbenzene	ND	36.5		ug/kg	50.0	73%	18 - 165	21	50	9012741	NSA1598-08	01/27/09 22:02
n-Butylbenzene	ND	32.4		ug/kg	50.0	65%	10 - 168	25	50	9012741	NSA1598-08	01/27/09 22:02
tert-Butylbenzene	ND	39.4		ug/kg	50.0	79%	17 - 165	19	50	9012741	NSA1598-08	01/27/09 22:02
Carbon disulfide	ND	43.1		ug/kg	50.0	86%	34 - 147	4	47	9012741	NSA1598-08	01/27/09 22:02

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Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012741-MSD1												
Carbon Tetrachloride	ND	45.5		ug/kg	50.0	91%	33 - 155	4	44	9012741	NSA1598-08	01/27/09 22:02
Chlorobenzene	ND	35.2		ug/kg	50.0	70%	23 - 147	20	44	9012741	NSA1598-08	01/27/09 22:02
Chlorodibromomethane	ND	36.6		ug/kg	50.0	73%	21 - 155	22	45	9012741	NSA1598-08	01/27/09 22:02
Chloroethane	ND	44.2		ug/kg	50.0	88%	44 - 155	2	50	9012741	NSA1598-08	01/27/09 22:02
Chloroform	ND	44.5		ug/kg	50.0	89%	39 - 140	8	36	9012741	NSA1598-08	01/27/09 22:02
Chloromethane	ND	38.4		ug/kg	50.0	77%	14 - 143	4	50	9012741	NSA1598-08	01/27/09 22:02
2-Chlorotoluene	ND	35.9		ug/kg	50.0	72%	21 - 154	21	50	9012741	NSA1598-08	01/27/09 22:02
4-Chlorotoluene	ND	32.5		ug/kg	50.0	65%	10 - 156	24	50	9012741	NSA1598-08	01/27/09 22:02
1,2-Dibromo-3-chloropropane	ND	27.3		ug/kg	50.0	55%	10 - 159	41	50	9012741	NSA1598-08	01/27/09 22:02
1,2-Dibromoethane (EDB)	ND	37.9		ug/kg	50.0	76%	19 - 151	25	50	9012741	NSA1598-08	01/27/09 22:02
Dibromomethane	ND	36.6		ug/kg	50.0	73%	32 - 147	21	45	9012741	NSA1598-08	01/27/09 22:02
1,4-Dichlorobenzene	ND	27.9		ug/kg	50.0	56%	10 - 152	29	50	9012741	NSA1598-08	01/27/09 22:02
1,3-Dichlorobenzene	ND	29.5		ug/kg	50.0	59%	10 - 153	28	50	9012741	NSA1598-08	01/27/09 22:02
1,2-Dichlorobenzene	ND	29.8		ug/kg	50.0	60%	10 - 155	29	50	9012741	NSA1598-08	01/27/09 22:02
Dichlorodifluoromethane	ND	35.9		ug/kg	50.0	72%	10 - 143	9	43	9012741	NSA1598-08	01/27/09 22:02
1,1-Dichloroethane	ND	44.1		ug/kg	50.0	88%	49 - 156	5	37	9012741	NSA1598-08	01/27/09 22:02
1,2-Dichloroethane	ND	42.4		ug/kg	50.0	85%	27 - 145	13	44	9012741	NSA1598-08	01/27/09 22:02
cis-1,2-Dichloroethene	ND	43.0		ug/kg	50.0	86%	39 - 143	6	35	9012741	NSA1598-08	01/27/09 22:02
1,1-Dichloroethene	ND	42.0		ug/kg	50.0	84%	42 - 145	5	41	9012741	NSA1598-08	01/27/09 22:02
trans-1,2-Dichloroethene	ND	45.5		ug/kg	50.0	91%	41 - 146	3	37	9012741	NSA1598-08	01/27/09 22:02
1,3-Dichloropropane	ND	42.8		ug/kg	50.0	86%	30 - 143	18	44	9012741	NSA1598-08	01/27/09 22:02
1,2-Dichloropropane	ND	36.8		ug/kg	50.0	74%	37 - 136	13	35	9012741	NSA1598-08	01/27/09 22:02
2,2-Dichloropropane	ND	42.3		ug/kg	50.0	85%	30 - 145	0.4	33	9012741	NSA1598-08	01/27/09 22:02
cis-1,3-Dichloropropene	ND	40.3		ug/kg	50.0	81%	29 - 149	13	43	9012741	NSA1598-08	01/27/09 22:02
trans-1,3-Dichloropropene	ND	37.3		ug/kg	50.0	75%	17 - 146	16	50	9012741	NSA1598-08	01/27/09 22:02
1,1-Dichloropropene	ND	41.9		ug/kg	50.0	84%	36 - 147	9	41	9012741	NSA1598-08	01/27/09 22:02
Ethylbenzene	ND	37.5		ug/kg	50.0	75%	16 - 160	15	48	9012741	NSA1598-08	01/27/09 22:02
Hexachlorobutadiene	ND	36.8		ug/kg	50.0	74%	10 - 191	24	50	9012741	NSA1598-08	01/27/09 22:02
2-Hexanone	ND	180		ug/kg	250	72%	19 - 154	26	50	9012741	NSA1598-08	01/27/09 22:02
Isopropylbenzene	ND	38.4		ug/kg	50.0	77%	16 - 156	20	50	9012741	NSA1598-08	01/27/09 22:02
p-Isopropyltoluene	ND	29.9		ug/kg	50.0	60%	13 - 160	17	50	9012741	NSA1598-08	01/27/09 22:02
Methyl tert-Butyl Ether	ND	38.9		ug/kg	50.0	78%	30 - 136	19	45	9012741	NSA1598-08	01/27/09 22:02
Methylene Chloride	ND	40.2		ug/kg	50.0	80%	31 - 160	12	39	9012741	NSA1598-08	01/27/09 22:02
4-Methyl-2-pentanone	ND	186		ug/kg	250	74%	25 - 149	29	50	9012741	NSA1598-08	01/27/09 22:02
Naphthalene	ND	17.3	R	ug/kg	50.0	35%	10 - 151	55	50	9012741	NSA1598-08	01/27/09 22:02
n-Propylbenzene	ND	35.2		ug/kg	50.0	70%	17 - 158	20	50	9012741	NSA1598-08	01/27/09 22:02
Styrene	ND	2.47	M8	ug/kg	50.0	5%	11 - 168	40	50	9012741	NSA1598-08	01/27/09 22:02
1,1,1,2-Tetrachloroethane	ND	38.8		ug/kg	50.0	78%	30 - 147	15	43	9012741	NSA1598-08	01/27/09 22:02
1,1,2,2-Tetrachloroethane	ND	35.1		ug/kg	50.0	70%	20 - 155	27	50	9012741	NSA1598-08	01/27/09 22:02
Tetrachloroethene	ND	44.0		ug/kg	50.0	88%	27 - 151	13	45	9012741	NSA1598-08	01/27/09 22:02
Toluene	ND	45.9		ug/kg	50.0	92%	30 - 145	14	44	9012741	NSA1598-08	01/27/09 22:02

TestAmerica
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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9012741-MSD1												
1,2,3-Trichlorobenzene	ND	21.0		ug/kg	50.0	42%	10 - 158	41	50	9012741	NSA1598-08	01/27/09 22:02
1,2,4-Trichlorobenzene	ND	21.4		ug/kg	50.0	43%	10 - 160	40	50	9012741	NSA1598-08	01/27/09 22:02
1,1,2-Trichloroethane	ND	41.1		ug/kg	50.0	82%	34 - 140	18	41	9012741	NSA1598-08	01/27/09 22:02
1,1,1-Trichloroethane	ND	47.3		ug/kg	50.0	95%	36 - 150	3	39	9012741	NSA1598-08	01/27/09 22:02
Trichloroethene	ND	39.3		ug/kg	50.0	79%	33 - 145	11	40	9012741	NSA1598-08	01/27/09 22:02
Trichlorofluoromethane	ND	46.7		ug/kg	50.0	93%	31 - 150	4	42	9012741	NSA1598-08	01/27/09 22:02
1,2,3-Trichloropropane	ND	27.3		ug/kg	50.0	55%	14 - 143	46	50	9012741	NSA1598-08	01/27/09 22:02
1,3,5-Trimethylbenzene	ND	32.6		ug/kg	50.0	65%	20 - 158	24	50	9012741	NSA1598-08	01/27/09 22:02
1,2,4-Trimethylbenzene	ND	25.5		ug/kg	50.0	51%	10 - 166	25	50	9012741	NSA1598-08	01/27/09 22:02
Vinyl chloride	ND	41.9		ug/kg	50.0	84%	32 - 144	1	41	9012741	NSA1598-08	01/27/09 22:02
Xylenes, total	ND	112		ug/kg	150	74%	16 - 159	16	48	9012741	NSA1598-08	01/27/09 22:02
Surrogate: 1,2-Dichloroethane-d4		62.7		ug/kg	50.0	125%	41 - 150			9012741	NSA1598-08	01/27/09 22:02
Surrogate: Dibromofluoromethane		54.3		ug/kg	50.0	109%	55 - 139			9012741	NSA1598-08	01/27/09 22:02
Surrogate: Toluene-d8		57.5		ug/kg	50.0	115%	57 - 148			9012741	NSA1598-08	01/27/09 22:02
Surrogate: 4-Bromofluorobenzene		54.7		ug/kg	50.0	109%	58 - 150			9012741	NSA1598-08	01/27/09 22:02
9013158-MSD1												
Acetone	ND	359		mg/kg	250	144%	32 - 163	4	45	9013158	NSA1760-01RE2	01/31/09 04:13
Benzene	ND	56.7		mg/kg	50.0	113%	33 - 146	2	43	9013158	NSA1760-01RE2	01/31/09 04:13
Bromobenzene	ND	45.8		mg/kg	50.0	92%	10 - 156	7	50	9013158	NSA1760-01RE2	01/31/09 04:13
Bromochloromethane	ND	56.2		mg/kg	50.0	112%	43 - 138	0.3	32	9013158	NSA1760-01RE2	01/31/09 04:13
Bromodichloromethane	ND	55.4		mg/kg	50.0	111%	31 - 149	2	37	9013158	NSA1760-01RE2	01/31/09 04:13
Bromoform	ND	56.6		mg/kg	50.0	113%	14 - 167	2	50	9013158	NSA1760-01RE2	01/31/09 04:13
Bromomethane	ND	59.2		mg/kg	50.0	118%	16 - 172	1	50	9013158	NSA1760-01RE2	01/31/09 04:13
2-Butanone	ND	331		mg/kg	250	132%	37 - 151	5	43	9013158	NSA1760-01RE2	01/31/09 04:13
sec-Butylbenzene	30.8	55.8		mg/kg	50.0	50%	18 - 165	5	50	9013158	NSA1760-01RE2	01/31/09 04:13
n-Butylbenzene	218	87.2	M8	mg/kg	50.0	-261%	10 - 168	2	50	9013158	NSA1760-01RE2	01/31/09 04:13
tert-Butylbenzene	ND	49.2		mg/kg	50.0	98%	17 - 165	0.08	50	9013158	NSA1760-01RE2	01/31/09 04:13
Carbon disulfide	ND	54.7		mg/kg	50.0	109%	34 - 147	3	47	9013158	NSA1760-01RE2	01/31/09 04:13
Carbon Tetrachloride	ND	55.4		mg/kg	50.0	111%	33 - 155	2	44	9013158	NSA1760-01RE2	01/31/09 04:13
Chlorobenzene	ND	51.7		mg/kg	50.0	103%	23 - 147	3	44	9013158	NSA1760-01RE2	01/31/09 04:13
Chlorodibromomethane	ND	51.9		mg/kg	50.0	104%	21 - 155	0.6	45	9013158	NSA1760-01RE2	01/31/09 04:13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013158-MSD1												
Chloroethane	ND	46.8		mg/kg	50.0	94%	44 - 155	3	50	9013158	NSA1760-01RE2	01/31/09 04:13
Chloroform	ND	56.0		mg/kg	50.0	112%	39 - 140	1	36	9013158	NSA1760-01RE2	01/31/09 04:13
Chloromethane	ND	36.6		mg/kg	50.0	73%	14 - 143	11	50	9013158	NSA1760-01RE2	01/31/09 04:13
2-Chlorotoluene	ND	83.4	M7	mg/kg	50.0	167%	21 - 154	3	50	9013158	NSA1760-01RE2	01/31/09 04:13
4-Chlorotoluene	ND	58.0		mg/kg	50.0	116%	10 - 156	5	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,2-Dibromo-3-chloropropane	ND	59.0		mg/kg	50.0	118%	10 - 159	2	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,2-Dibromoethane (EDB)	ND	53.1		mg/kg	50.0	106%	19 - 151	2	50	9013158	NSA1760-01RE2	01/31/09 04:13
Dibromomethane	ND	58.2		mg/kg	50.0	116%	32 - 147	1	45	9013158	NSA1760-01RE2	01/31/09 04:13
1,4-Dichlorobenzene	ND	50.5		mg/kg	50.0	101%	10 - 152	3	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,3-Dichlorobenzene	ND	49.8		mg/kg	50.0	100%	10 - 153	5	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,2-Dichlorobenzene	ND	51.2		mg/kg	50.0	102%	10 - 155	5	50	9013158	NSA1760-01RE2	01/31/09 04:13
Dichlorodifluoromethane	ND	32.5		mg/kg	50.0	65%	10 - 143	2	43	9013158	NSA1760-01RE2	01/31/09 04:13
1,1-Dichloroethane	ND	54.8		mg/kg	50.0	110%	49 - 156	4	37	9013158	NSA1760-01RE2	01/31/09 04:13
1,2-Dichloroethane	ND	56.4		mg/kg	50.0	113%	27 - 145	0.1	44	9013158	NSA1760-01RE2	01/31/09 04:13
cis-1,2-Dichloroethene	ND	57.0		mg/kg	50.0	114%	39 - 143	3	35	9013158	NSA1760-01RE2	01/31/09 04:13
1,1-Dichloroethene	ND	55.0		mg/kg	50.0	110%	42 - 145	3	41	9013158	NSA1760-01RE2	01/31/09 04:13
trans-1,2-Dichloroethene	ND	55.8		mg/kg	50.0	112%	41 - 146	2	37	9013158	NSA1760-01RE2	01/31/09 04:13
1,3-Dichloropropane	ND	51.6		mg/kg	50.0	103%	30 - 143	0.9	44	9013158	NSA1760-01RE2	01/31/09 04:13
1,2-Dichloropropane	ND	53.0		mg/kg	50.0	106%	37 - 136	1	35	9013158	NSA1760-01RE2	01/31/09 04:13
2,2-Dichloropropane	ND	51.7		mg/kg	50.0	103%	30 - 145	0.06	33	9013158	NSA1760-01RE2	01/31/09 04:13
cis-1,3-Dichloropropene	ND	50.4		mg/kg	50.0	101%	29 - 149	3	43	9013158	NSA1760-01RE2	01/31/09 04:13
trans-1,3-Dichloropropene	ND	49.1		mg/kg	50.0	98%	17 - 146	0.6	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,1-Dichloropropene	ND	56.6		mg/kg	50.0	113%	36 - 147	1	41	9013158	NSA1760-01RE2	01/31/09 04:13
Ethylbenzene	145	76.1	M8	mg/kg	50.0	-138%	16 - 160	0.9	48	9013158	NSA1760-01RE2	01/31/09 04:13
Hexachlorobutadiene	ND	55.5		mg/kg	50.0	111%	10 - 191	1	50	9013158	NSA1760-01RE2	01/31/09 04:13
2-Hexanone	ND	290		mg/kg	250	116%	19 - 154	2	50	9013158	NSA1760-01RE2	01/31/09 04:13

TestAmerica
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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013158-MSD1												
Isopropylbenzene	44.8	60.6		mg/kg	50.0	32%	16 - 156	0.3	50	9013158	NSA1760-01RE2	01/31/09 04:13
p-Isopropyltoluene	21.7	52.7		mg/kg	50.0	62%	13 - 160	3	50	9013158	NSA1760-01RE2	01/31/09 04:13
Methyl tert-Butyl Ether	ND	58.2		mg/kg	50.0	116%	30 - 136	0.5	45	9013158	NSA1760-01RE2	01/31/09 04:13
Methylene Chloride	ND	55.0		mg/kg	50.0	110%	31 - 160	2	39	9013158	NSA1760-01RE2	01/31/09 04:13
4-Methyl-2-pentanone	ND	284		mg/kg	250	113%	25 - 149	0	50	9013158	NSA1760-01RE2	01/31/09 04:13
Naphthalene	552	139	MHA	mg/kg	50.0	-826%	10 - 151	2	50	9013158	NSA1760-01RE2	01/31/09 04:13
n-Propylbenzene	192	83.6	MHA	mg/kg	50.0	-217%	17 - 158	3	50	9013158	NSA1760-01RE2	01/31/09 04:13
Styrene	ND	56.9		mg/kg	50.0	114%	11 - 168	2	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,1,1,2-Tetrachloroethane	ND	52.2		mg/kg	50.0	104%	30 - 147	1	43	9013158	NSA1760-01RE2	01/31/09 04:13
1,1,2,2-Tetrachloroethane	ND	53.9		mg/kg	50.0	108%	20 - 155	0.8	50	9013158	NSA1760-01RE2	01/31/09 04:13
Tetrachloroethene	ND	52.0		mg/kg	50.0	104%	27 - 151	0.7	45	9013158	NSA1760-01RE2	01/31/09 04:13
Toluene	134	73.4	M8	mg/kg	50.0	-122%	30 - 145	0.6	44	9013158	NSA1760-01RE2	01/31/09 04:13
1,2,3-Trichlorobenzene	ND	51.2		mg/kg	50.0	102%	10 - 158	2	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,2,4-Trichlorobenzene	ND	52.1		mg/kg	50.0	104%	10 - 160	4	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,1,2-Trichloroethane	ND	52.3		mg/kg	50.0	105%	34 - 140	0.02	41	9013158	NSA1760-01RE2	01/31/09 04:13
1,1,1-Trichloroethane	ND	55.6		mg/kg	50.0	111%	36 - 150	2	39	9013158	NSA1760-01RE2	01/31/09 04:13
Trichloroethene	ND	57.5		mg/kg	50.0	115%	33 - 145	1	40	9013158	NSA1760-01RE2	01/31/09 04:13
Trichlorofluoromethane	ND	50.3		mg/kg	50.0	101%	31 - 150	2	42	9013158	NSA1760-01RE2	01/31/09 04:13
1,2,3-Trichloropropane	ND	48.2		mg/kg	50.0	96%	14 - 143	3	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,3,5-Trimethylbenzene	525	144	MHA	mg/kg	50.0	-760%	20 - 158	4	50	9013158	NSA1760-01RE2	01/31/09 04:13
1,2,4-Trimethylbenzene	1910	388	MHA	mg/kg	50.0	-3040%	10 - 166	3	50	9013158	NSA1760-01RE2	01/31/09 04:13
Vinyl chloride	ND	39.7		mg/kg	50.0	79%	32 - 144	13	41	9013158	NSA1760-01RE2	01/31/09 04:13
Xylenes, total	1370	384	M8	mg/kg	150	-655%	16 - 159	0.02	48	9013158	NSA1760-01RE2	01/31/09 04:13
Surrogate: 1,2-Dichloroethane-d4		50.6		ug/kg	50.0	101%	41 - 150			9013158	NSA1760-01RE2	01/31/09 04:13
Surrogate: Dibromofluoromethane		52.3		ug/kg	50.0	105%	55 - 139			9013158	NSA1760-01RE2	01/31/09 04:13
Surrogate: Toluene-d8		46.3		ug/kg	50.0	93%	57 - 148			9013158	NSA1760-01RE2	01/31/09 04:13

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013158-MSD1												
Surrogate: 4-Bromofluorobenzene		47.7		ug/kg	50.0	95%	58 - 150			9013158	NSA1760-01RE2	01/31/09 04:13
9013425-MSD1												
Acetone	ND	16.2		mg/kg	12.0	135%	32 - 163	1	45	9013425	NSA1598-02RE1	01/29/09 22:46
Benzene	0.0441	2.59		mg/kg	2.39	107%	33 - 146	18	43	9013425	NSA1598-02RE1	01/29/09 22:46
Bromobenzene	ND	2.16		mg/kg	2.39	90%	10 - 156	18	50	9013425	NSA1598-02RE1	01/29/09 22:46
Bromochloromethane	ND	2.51		mg/kg	2.39	105%	43 - 138	16	32	9013425	NSA1598-02RE1	01/29/09 22:46
Bromodichloromethane	ND	2.47		mg/kg	2.39	103%	31 - 149	18	37	9013425	NSA1598-02RE1	01/29/09 22:46
Bromoform	ND	2.28		mg/kg	2.39	95%	14 - 167	13	50	9013425	NSA1598-02RE1	01/29/09 22:46
Bromomethane	0.208	1.82		mg/kg	2.39	67%	16 - 172	21	50	9013425	NSA1598-02RE1	01/29/09 22:46
2-Butanone	ND	14.2		mg/kg	12.0	119%	37 - 151	10	43	9013425	NSA1598-02RE1	01/29/09 22:46
sec-Butylbenzene	0.992	3.29		mg/kg	2.39	96%	18 - 165	11	50	9013425	NSA1598-02RE1	01/29/09 22:46
n-Butylbenzene	4.37	6.32		mg/kg	2.39	81%	10 - 168	2	50	9013425	NSA1598-02RE1	01/29/09 22:46
tert-Butylbenzene	ND	2.40		mg/kg	2.39	101%	17 - 165	18	50	9013425	NSA1598-02RE1	01/29/09 22:46
Carbon disulfide	ND	2.40		mg/kg	2.39	100%	34 - 147	20	47	9013425	NSA1598-02RE1	01/29/09 22:46
Carbon Tetrachloride	ND	2.50		mg/kg	2.39	104%	33 - 155	21	44	9013425	NSA1598-02RE1	01/29/09 22:46
Chlorobenzene	ND	2.37		mg/kg	2.39	99%	23 - 147	14	44	9013425	NSA1598-02RE1	01/29/09 22:46
Chlorodibromomethane	ND	2.24		mg/kg	2.39	94%	21 - 155	16	45	9013425	NSA1598-02RE1	01/29/09 22:46
Chloroethane	ND	0.473	M8	mg/kg	2.39	20%	44 - 155	33	50	9013425	NSA1598-02RE1	01/29/09 22:46
Chloroform	ND	2.51		mg/kg	2.39	105%	39 - 140	18	36	9013425	NSA1598-02RE1	01/29/09 22:46
Chloromethane	ND	1.74		mg/kg	2.39	73%	14 - 143	4	50	9013425	NSA1598-02RE1	01/29/09 22:46
2-Chlorotoluene	ND	3.34		mg/kg	2.39	140%	21 - 154	10	50	9013425	NSA1598-02RE1	01/29/09 22:46
4-Chlorotoluene	ND	2.74		mg/kg	2.39	115%	10 - 156	16	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,2-Dibromo-3-chloropropane	ND	2.03		mg/kg	2.39	85%	10 - 159	14	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,2-Dibromoethane (EDB)	ND	2.27		mg/kg	2.39	95%	19 - 151	13	50	9013425	NSA1598-02RE1	01/29/09 22:46
Dibromomethane	ND	2.54		mg/kg	2.39	106%	32 - 147	17	45	9013425	NSA1598-02RE1	01/29/09 22:46
1,4-Dichlorobenzene	ND	2.57		mg/kg	2.39	107%	10 - 152	19	50	9013425	NSA1598-02RE1	01/29/09 22:46

TestAmerica
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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013425-MSD1												
1,3-Dichlorobenzene	ND	2.55		mg/kg	2.39	107%	10 - 153	19	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,2-Dichlorobenzene	ND	2.51		mg/kg	2.39	105%	10 - 155	19	50	9013425	NSA1598-02RE1	01/29/09 22:46
Dichlorodifluoromethane	ND	0.520		mg/kg	2.39	22%	10 - 143	37	43	9013425	NSA1598-02RE1	01/29/09 22:46
1,1-Dichloroethane	ND	2.48		mg/kg	2.39	104%	49 - 156	18	37	9013425	NSA1598-02RE1	01/29/09 22:46
1,2-Dichloroethane	ND	2.47		mg/kg	2.39	103%	27 - 145	17	44	9013425	NSA1598-02RE1	01/29/09 22:46
cis-1,2-Dichloroethene	ND	2.56		mg/kg	2.39	107%	39 - 143	18	35	9013425	NSA1598-02RE1	01/29/09 22:46
1,1-Dichloroethene	ND	2.45		mg/kg	2.39	102%	42 - 145	20	41	9013425	NSA1598-02RE1	01/29/09 22:46
trans-1,2-Dichloroethene	ND	2.61		mg/kg	2.39	109%	41 - 146	18	37	9013425	NSA1598-02RE1	01/29/09 22:46
1,3-Dichloropropane	ND	2.25		mg/kg	2.39	94%	30 - 143	14	44	9013425	NSA1598-02RE1	01/29/09 22:46
1,2-Dichloropropane	ND	2.37		mg/kg	2.39	99%	37 - 136	17	35	9013425	NSA1598-02RE1	01/29/09 22:46
2,2-Dichloropropane	ND	2.42		mg/kg	2.39	101%	30 - 145	19	33	9013425	NSA1598-02RE1	01/29/09 22:46
cis-1,3-Dichloropropene	ND	2.15		mg/kg	2.39	90%	29 - 149	15	43	9013425	NSA1598-02RE1	01/29/09 22:46
trans-1,3-Dichloropropene	ND	2.19		mg/kg	2.39	91%	17 - 146	15	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,1-Dichloropropene	ND	2.69		mg/kg	2.39	112%	36 - 147	20	41	9013425	NSA1598-02RE1	01/29/09 22:46
Ethylbenzene	1.62	3.69		mg/kg	2.39	87%	16 - 160	3	48	9013425	NSA1598-02RE1	01/29/09 22:46
Hexachlorobutadiene	ND	3.08		mg/kg	2.39	129%	10 - 191	19	50	9013425	NSA1598-02RE1	01/29/09 22:46
2-Hexanone	ND	11.3		mg/kg	12.0	95%	19 - 154	6	50	9013425	NSA1598-02RE1	01/29/09 22:46
Isopropylbenzene	0.928	3.34		mg/kg	2.39	101%	16 - 156	7	50	9013425	NSA1598-02RE1	01/29/09 22:46
p-Isopropyltoluene	0.455	2.96		mg/kg	2.39	105%	13 - 160	15	50	9013425	NSA1598-02RE1	01/29/09 22:46
Methyl tert-Butyl Ether	ND	2.49		mg/kg	2.39	104%	30 - 136	15	45	9013425	NSA1598-02RE1	01/29/09 22:46
Methylene Chloride	ND	2.40		mg/kg	2.39	101%	31 - 160	17	39	9013425	NSA1598-02RE1	01/29/09 22:46
4-Methyl-2-pentanone	ND	10.5		mg/kg	12.0	88%	25 - 149	8	50	9013425	NSA1598-02RE1	01/29/09 22:46
Naphthalene	4.92	7.02		mg/kg	2.39	88%	10 - 151	4	50	9013425	NSA1598-02RE1	01/29/09 22:46
n-Propylbenzene	3.86	5.50		mg/kg	2.39	69%	17 - 158	0.6	50	9013425	NSA1598-02RE1	01/29/09 22:46
Styrene	ND	2.64		mg/kg	2.39	111%	11 - 168	14	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,1,1,2-Tetrachloroethane	ND	2.26		mg/kg	2.39	94%	30 - 147	14	43	9013425	NSA1598-02RE1	01/29/09 22:46

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Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9013425-MSD1												
1,1,2,2-Tetrachloroethane	ND	2.16		mg/kg	2.39	91%	20 - 155	14	50	9013425	NSA1598-02RE1	01/29/09 22:46
Tetrachloroethene	ND	2.58		mg/kg	2.39	108%	27 - 151	15	45	9013425	NSA1598-02RE1	01/29/09 22:46
Toluene	0.224	2.48		mg/kg	2.39	95%	30 - 145	11	44	9013425	NSA1598-02RE1	01/29/09 22:46
1,2,3-Trichlorobenzene	ND	2.65		mg/kg	2.39	111%	10 - 158	20	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,2,4-Trichlorobenzene	ND	2.79		mg/kg	2.39	117%	10 - 160	16	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,1,2-Trichloroethane	ND	2.28		mg/kg	2.39	96%	34 - 140	15	41	9013425	NSA1598-02RE1	01/29/09 22:46
1,1,1-Trichloroethane	ND	2.47		mg/kg	2.39	103%	36 - 150	19	39	9013425	NSA1598-02RE1	01/29/09 22:46
Trichloroethene	ND	2.67		mg/kg	2.39	112%	33 - 145	19	40	9013425	NSA1598-02RE1	01/29/09 22:46
Trichlorofluoromethane	ND	1.53		mg/kg	2.39	64%	31 - 150	22	42	9013425	NSA1598-02RE1	01/29/09 22:46
1,2,3-Trichloropropane	ND	1.93		mg/kg	2.39	81%	14 - 143	21	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,3,5-Trimethylbenzene	3.53	5.43		mg/kg	2.39	80%	20 - 158	3	50	9013425	NSA1598-02RE1	01/29/09 22:46
1,2,4-Trimethylbenzene	17.2	17.0	MHA	mg/kg	2.39	-8%	10 - 166	5	50	9013425	NSA1598-02RE1	01/29/09 22:46
Vinyl chloride	ND	0.609	M8	mg/kg	2.39	26%	32 - 144	0.4	41	9013425	NSA1598-02RE1	01/29/09 22:46
Xylenes, total	4.15	10.5		mg/kg	7.17	89%	16 - 159	4	48	9013425	NSA1598-02RE1	01/29/09 22:46
Surrogate: 1,2-Dichloroethane-d4		50.0		ug/kg	50.0	100%	41 - 150			9013425	NSA1598-02RE1	01/29/09 22:46
Surrogate: Dibromofluoromethane		51.6		ug/kg	50.0	103%	55 - 139			9013425	NSA1598-02RE1	01/29/09 22:46
Surrogate: Toluene-d8		48.2		ug/kg	50.0	96%	57 - 148			9013425	NSA1598-02RE1	01/29/09 22:46
Surrogate: 4-Bromofluorobenzene		56.4		ug/kg	50.0	113%	58 - 150			9013425	NSA1598-02RE1	01/29/09 22:46

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Tennessee
SW846 8260B	Soil	N/A	X	N/A
SW-846	Soil			

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Triad Env. Consultants (6921)	Work Order:	NSA1538
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	01/22/09 16:00

DATA QUALIFIERS AND DEFINITIONS

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
PX	Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RI

NSA1538

Cooler Received/Opened On: 1/22/09 @ 1600

1. Tracking #_____(last 4 digits, FedEx)

Courier: Route ID: 95610068

2. Temperature of rep. sample or temp blank when opened: 13.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NA...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here_____

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 51952

BIS = Broken in shipment

End of Form

TestAmerica

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

Page _____ of _____

Client: Triad Env. Consultants (6921)
Address: 207 Donelson Pike, Suite 200
City, State, Zip: Nashville TN 37214
Client Invoice Contact: Kim Browers
Client Project Mgr: Mike Baker
Client Telephone#: (615) 889-6888 Fax: (615) 889-4004
Sampler Name (Print) Jason Unkefer
SamplerSignature:

TA Account #: 488472 PO #:
Invoice to: Triad Env. Consultants (6921)
Report to: ~~Mike Baker~~ Jason Unkefer
Project Name: Triad Env. Consultants
Facility ID: [none]
Site Address:
City,State,Zip: Tennessee
Regulatory District (CA):

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: NSA1538 02/05/09 23 59											RUSH TAT (Pre Schedule) *	TAT request in Bus Days	Fax Results (Yes or No)
BP-8 40-44	1/20/09	1135	4	X						X									X					01										
GP-29 ~~17-18~~ 29-25	1/21/09	1445	1	↓															↓					2										
GP-30 14-15	1/21/09	1595	1																					3										

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 13582
Trip Blank Broken not submitted

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
	1/22/09	1400		1/22/09	1435		1/22/09	

Shipped Via:	Received for TestAmerica by:	Date:	Time:	Shipped Via:	Temperature Upon Receipt: 13.9	Sample Containers Intact? Y N	VOCs Free of Headspace? Y N	QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	Date Due of Report:
		1/22/09	1600						

1/22/09 1600

Soil Laboratory Report
March 2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

March 26, 2009 3:56:48PM

Client: TriAD Env. Consultants (6921)
207 Donelson Pike, Suite 200
Nashville, TN 37214
Attn: Chris Scott

Work Order: NSC1000
Project Name: Elmco
Project Nbr: 07-Elm01-01
P/O Nbr: 07-Elm01-01
Date Received: 03/12/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
EV-6 19-20	NSC1000-01	03/10/09 08:20
EV-7 19-20	NSC1000-02	03/10/09 17:10
EV-8 21	NSC1000-03	03/11/09 08:30
EV-9 9-10	NSC1000-04	03/11/09 11:15
EV-9 25	NSC1000-05	03/11/09 11:30
EV-10 5	NSC1000-06	03/11/09 13:30
EV-10 10	NSC1000-07	03/11/09 13:35
EV-11 16	NSC1000-08	03/11/09 16:25
EV-8 8-9	NSC1000-09	03/11/09 08:10
Trip Blank	NSC1000-10	03/10/09 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments:
Soil samples arrived in jars.

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Cathy Gartner

Cathy Gartner

Project Management

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-01 (EV-6 19-20 - Soil) Sampled: 03/10/09 08:20

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	**69.2**		mg/kg	22.8	500	03/20/09 17:20	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Bromomethane	ND	M8, RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
2-Butanone	**21.8**		mg/kg	2.28	50	03/19/09 17:27	SW846 8260B	9031847
sec-Butylbenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
n-Butylbenzene	**0.0956**		mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	0.228	50	03/19/09 17:27	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	0.228	50	03/19/09 17:27	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Chloromethane	ND	M8, RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	0.228	50	03/19/09 17:27	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Ethylbenzene	**2.06**		mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Hexachlorobutadiene	**0.315**		mg/kg	0.228	50	03/19/09 17:27	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	2.28	50	03/19/09 17:27	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-01 (EV-6 19-20 - Soil) - cont. Sampled: 03/10/09 08:20								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	0.455	50	03/19/09 17:27	SW846 8260B	9031847
4-Methyl-2-pentanone	**9.23**		mg/kg	2.28	50	03/19/09 17:27	SW846 8260B	9031847
Naphthalene	**0.291**		mg/kg	0.228	50	03/19/09 17:27	SW846 8260B	9031847
n-Propylbenzene	ND		mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Toluene	**257**		mg/kg	9.11	5000	03/21/09 04:58	SW846 8260B	9033311
1,2,3-Trichlorobenzene	**0.401**		mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,2,4-Trichlorobenzene	**0.234**		mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	0.228	50	03/19/09 17:27	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Trichlorofluoromethane	ND	M8, RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.0911	50	03/19/09 17:27	SW846 8260B	9031847
Xylenes, total	**7.95**		mg/kg	0.228	50	03/19/09 17:27	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*110 %*					*03/19/09 17:27*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/20/09 17:20*	*SW846 8260B*	*9033307*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/21/09 04:58*	*SW846 8260B*	*9033311*
Surr: Dibromofluoromethane (55-139%)	*112 %*					*03/19/09 17:27*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*106 %*					*03/20/09 17:20*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/21/09 04:58*	*SW846 8260B*	*9033311*
Surr: Toluene-d8 (57-148%)	*96 %*					*03/19/09 17:27*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*93 %*					*03/20/09 17:20*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*103 %*					*03/21/09 04:58*	*SW846 8260B*	*9033311*
Surr: 4-Bromofluorobenzene (58-150%)	*92 %*					*03/19/09 17:27*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*97 %*					*03/20/09 17:20*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*100 %*					*03/21/09 04:58*	*SW846 8260B*	*9033311*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-02 (EV-7 19-20 - Soil) Sampled: 03/10/09 17:10

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	**12700**		mg/kg	2390	50000	03/20/09 20:01	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
2-Butanone	ND	RL1	mg/kg	23.9	500	03/19/09 20:35	SW846 8260B	9031847
sec-Butylbenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	2.39	500	03/19/09 20:35	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	2.39	500	03/19/09 20:35	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	2.39	500	03/19/09 20:35	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Ethylbenzene	**1.42**		mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	2.39	500	03/19/09 20:35	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	23.9	500	03/19/09 20:35	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-02 (EV-7 19-20 - Soil) - cont. Sampled: 03/10/09 17:10								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	4.77	500	03/19/09 20:35	SW846 8260B	9031847
4-Methyl-2-pentanone	ND	RL1	mg/kg	23.9	500	03/19/09 20:35	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	2.39	500	03/19/09 20:35	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Toluene	**385**		mg/kg	9.54	5000	03/20/09 19:34	SW846 8260B	9033307
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	2.39	500	03/19/09 20:35	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.954	500	03/19/09 20:35	SW846 8260B	9031847
Xylenes, total	**6.15**		mg/kg	2.39	500	03/19/09 20:35	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*106 %*					*03/19/09 20:35*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*107 %*					*03/20/09 19:34*	*SW846 8260B*	*9033307*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/20/09 20:01*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*103 %*					*03/19/09 20:35*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*105 %*					*03/20/09 19:34*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/20/09 20:01*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*97 %*					*03/19/09 20:35*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*102 %*					*03/20/09 19:34*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*101 %*					*03/20/09 20:01*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*95 %*					*03/19/09 20:35*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*101 %*					*03/20/09 19:34*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*101 %*					*03/20/09 20:01*	*SW846 8260B*	*9033307*

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Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-03 (EV-8 21 - Soil) Sampled: 03/11/09 08:30

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	**16900**		mg/kg	2390	50000	03/21/09 05:52	SW846 8260B	9033311
Benzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
2-Butanone	**223**		mg/kg	23.9	500	03/20/09 18:40	SW846 8260B	9033307
sec-Butylbenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	0.239	50	03/19/09 17:54	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	0.239	50	03/19/09 17:54	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	0.239	50	03/19/09 17:54	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Ethylbenzene	**0.169**		mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	0.239	50	03/19/09 17:54	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	2.39	50	03/19/09 17:54	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847

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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-03 (EV-8 21 - Soil) - cont. Sampled: 03/11/09 08:30								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	0.479	50	03/19/09 17:54	SW846 8260B	9031847
4-Methyl-2-pentanone	**2.81**		mg/kg	2.39	50	03/19/09 17:54	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	0.239	50	03/19/09 17:54	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Toluene	**166**		mg/kg	9.58	5000	03/20/09 19:07	SW846 8260B	9033307
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	0.239	50	03/19/09 17:54	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.0958	50	03/19/09 17:54	SW846 8260B	9031847
Xylenes, total	**0.538**		mg/kg	0.239	50	03/19/09 17:54	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*101 %*					*03/19/09 17:54*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*105 %*					*03/20/09 18:40*	*SW846 8260B*	*9033307*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*107 %*					*03/20/09 19:07*	*SW846 8260B*	*9033307*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*109 %*					*03/21/09 05:52*	*SW846 8260B*	*9033311*
Surr: Dibromofluoromethane (55-139%)	*101 %*					*03/19/09 17:54*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*102 %*					*03/20/09 18:40*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*105 %*					*03/20/09 19:07*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/21/09 05:52*	*SW846 8260B*	*9033311*
Surr: Toluene-d8 (57-148%)	*102 %*					*03/19/09 17:54*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*94 %*					*03/20/09 18:40*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*102 %*					*03/20/09 19:07*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*101 %*					*03/21/09 05:52*	*SW846 8260B*	*9033311*
Surr: 4-Bromofluorobenzene (58-150%)	*95 %*					*03/19/09 17:54*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*99 %*					*03/20/09 18:40*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*100 %*					*03/20/09 19:07*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*99 %*					*03/21/09 05:52*	*SW846 8260B*	*9033311*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-04 (EV-9 9-10 - Soil) Sampled: 03/11/09 11:15								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**63.8**		mg/kg	23.1	500	03/20/09 16:53	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
2-Butanone	**21.3**		mg/kg	2.31	50	03/20/09 16:26	SW846 8260B	9033307
sec-Butylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	0.231	50	03/19/09 18:21	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	0.231	50	03/19/09 18:21	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	0.231	50	03/19/09 18:21	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Ethylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	0.231	50	03/19/09 18:21	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	2.31	50	03/19/09 18:21	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847

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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-04 (EV-9 9-10 - Soil) - cont. Sampled: 03/11/09 11:15

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	0.463	50	03/19/09 18:21	SW846 8260B	9031847
4-Methyl-2-pentanone	ND	RL1	mg/kg	2.31	50	03/19/09 18:21	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	0.231	50	03/19/09 18:21	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Toluene	**0.369**		mg/kg	0.0926	50	03/20/09 16:26	SW846 8260B	9033307
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	0.231	50	03/19/09 18:21	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.0926	50	03/19/09 18:21	SW846 8260B	9031847
Xylenes, total	ND	RL1	mg/kg	0.231	50	03/19/09 18:21	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*103 %*					*03/19/09 18:21*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/20/09 16:26*	*SW846 8260B*	*9033307*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/20/09 16:53*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*103 %*					*03/19/09 18:21*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*107 %*					*03/20/09 16:26*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/20/09 16:53*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*105 %*					*03/19/09 18:21*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*104 %*					*03/20/09 16:26*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*100 %*					*03/20/09 16:53*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*99 %*					*03/19/09 18:21*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*98 %*					*03/20/09 16:26*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*101 %*					*03/20/09 16:53*	*SW846 8260B*	*9033307*

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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-05 (EV-9 25 - Soil) Sampled: 03/11/09 11:30								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**7430**		mg/kg	2260	50000	03/20/09 20:28	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
2-Butanone	ND	RL1	mg/kg	226	5000	03/19/09 21:02	SW846 8260B	9031847
sec-Butylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	22.6	5000	03/19/09 21:02	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	22.6	5000	03/19/09 21:02	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	22.6	5000	03/19/09 21:02	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Ethylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	22.6	5000	03/19/09 21:02	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	226	5000	03/19/09 21:02	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847

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THE LEADER IN ENVIRONMENTAL TESTING
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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-05 (EV-9 25 - Soil) - cont. Sampled: 03/11/09 11:30								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	45.1	5000	03/19/09 21:02	SW846 8260B	9031847
4-Methyl-2-pentanone	ND	RL1	mg/kg	226	5000	03/19/09 21:02	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	22.6	5000	03/19/09 21:02	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Tetrachloroethene	ND		mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Toluene	**2820**		mg/kg	90.3	50000	03/20/09 20:28	SW846 8260B	9033307
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	22.6	5000	03/19/09 21:02	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	9.03	5000	03/19/09 21:02	SW846 8260B	9031847
Xylenes, total	ND	RL1	mg/kg	22.6	5000	03/19/09 21:02	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*107 %*					*03/19/09 21:02*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/20/09 20:28*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*103 %*					*03/19/09 21:02*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/20/09 20:28*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*93 %*					*03/19/09 21:02*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*102 %*					*03/20/09 20:28*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*96 %*					*03/19/09 21:02*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*99 %*					*03/20/09 20:28*	*SW846 8260B*	*9033307*

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-06 (EV-10 5 - Soil) Sampled: 03/11/09 13:30

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	**11.9**		mg/kg	2.35	50	03/20/09 15:59	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
2-Butanone	ND	RL1	mg/kg	2.35	50	03/19/09 18:48	SW846 8260B	9031847
sec-Butylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	0.235	50	03/19/09 18:48	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	0.235	50	03/19/09 18:48	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	0.235	50	03/19/09 18:48	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Ethylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	0.235	50	03/19/09 18:48	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	2.35	50	03/19/09 18:48	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-06 (EV-10 5 - Soil) - cont. Sampled: 03/11/09 13:30

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	0.471	50	03/19/09 18:48	SW846 8260B	9031847
4-Methyl-2-pentanone	ND	RL1	mg/kg	2.35	50	03/19/09 18:48	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	0.235	50	03/19/09 18:48	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Toluene	**0.634**		mg/kg	0.0942	50	03/20/09 15:59	SW846 8260B	9033307
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	0.235	50	03/19/09 18:48	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.0942	50	03/19/09 18:48	SW846 8260B	9031847
Xylenes, total	ND	RL1	mg/kg	0.235	50	03/19/09 18:48	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*103 %*					*03/19/09 18:48*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*105 %*					*03/20/09 15:59*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*106 %*					*03/19/09 18:48*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/20/09 15:59*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*106 %*					*03/19/09 18:48*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*106 %*					*03/20/09 15:59*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*99 %*					*03/19/09 18:48*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*100 %*					*03/20/09 15:59*	*SW846 8260B*	*9033307*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-07 (EV-10 10 - Soil) Sampled: 03/11/09 13:35								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**77.3**		mg/kg	21.6	500	03/20/09 17:47	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
2-Butanone	ND	RL1	mg/kg	2.16	50	03/19/09 19:14	SW846 8260B	9031847
sec-Butylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	0.216	50	03/19/09 19:14	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	0.216	50	03/19/09 19:14	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	0.216	50	03/19/09 19:14	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Ethylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	0.216	50	03/19/09 19:14	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	2.16	50	03/19/09 19:14	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847

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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-07 (EV-10 10 - Soil) - cont. Sampled: 03/11/09 13:35

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	0.432	50	03/19/09 19:14	SW846 8260B	9031847
4-Methyl-2-pentanone	ND	RL1	mg/kg	2.16	50	03/19/09 19:14	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	0.216	50	03/19/09 19:14	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Toluene	**2.90**		mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	0.216	50	03/19/09 19:14	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.0864	50	03/19/09 19:14	SW846 8260B	9031847
Xylenes, total	ND	RL1	mg/kg	0.216	50	03/19/09 19:14	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*106 %*					*03/19/09 19:14*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/20/09 17:47*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*107 %*					*03/19/09 19:14*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*107 %*					*03/20/09 17:47*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*105 %*					*03/19/09 19:14*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*101 %*					*03/20/09 17:47*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*99 %*					*03/19/09 19:14*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*102 %*					*03/20/09 17:47*	*SW846 8260B*	*9033307*

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-08 (EV-11 16 - Soil) Sampled: 03/11/09 16:25								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**3.31**		mg/kg	2.23	50	03/20/09 15:32	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
2-Butanone	ND	RL1	mg/kg	2.23	50	03/19/09 19:41	SW846 8260B	9031847
sec-Butylbenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	0.223	50	03/19/09 19:41	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	0.223	50	03/19/09 19:41	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	0.223	50	03/19/09 19:41	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Ethylbenzene	**0.273**		mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	0.223	50	03/19/09 19:41	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	2.23	50	03/19/09 19:41	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-08 (EV-11 16 - Soil) - cont. Sampled: 03/11/09 16:25								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	0.446	50	03/19/09 19:41	SW846 8260B	9031847
4-Methyl-2-pentanone	ND	RL1	mg/kg	2.23	50	03/19/09 19:41	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	0.223	50	03/19/09 19:41	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Toluene	**0.672**		mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	0.223	50	03/19/09 19:41	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
1,2,4-Trimethylbenzene	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.0891	50	03/19/09 19:41	SW846 8260B	9031847
Xylenes, total	**1.38**		mg/kg	0.223	50	03/19/09 19:41	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*114 %*					*03/19/09 19:41*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*101 %*					*03/20/09 15:32*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*118 %*					*03/19/09 19:41*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/20/09 15:32*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*109 %*					*03/19/09 19:41*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*111 %*					*03/20/09 15:32*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*98 %*					*03/19/09 19:41*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*96 %*					*03/20/09 15:32*	*SW846 8260B*	*9033307*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-09 (EV-8 8-9 - Soil) Sampled: 03/11/09 08:10

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	**79.7**		mg/kg	22.6	500	03/20/09 18:13	SW846 8260B	9033307
Benzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Bromobenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Bromochloromethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Bromodichloromethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Bromoform	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Bromomethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
2-Butanone	**3.93**		mg/kg	2.26	50	03/19/09 20:08	SW846 8260B	9031847
sec-Butylbenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
n-Butylbenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
tert-Butylbenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Carbon disulfide	ND	RL1	mg/kg	0.226	50	03/19/09 20:08	SW846 8260B	9031847
Carbon Tetrachloride	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Chlorobenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Chlorodibromomethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Chloroethane	ND	RL1	mg/kg	0.226	50	03/19/09 20:08	SW846 8260B	9031847
Chloroform	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Chloromethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
2-Chlorotoluene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
4-Chlorotoluene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,2-Dibromo-3-chloropropane	ND	RL1	mg/kg	0.226	50	03/19/09 20:08	SW846 8260B	9031847
1,2-Dibromoethane (EDB)	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Dibromomethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,4-Dichlorobenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,3-Dichlorobenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,2-Dichlorobenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Dichlorodifluoromethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,1-Dichloroethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,2-Dichloroethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
cis-1,2-Dichloroethene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,1-Dichloroethene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
trans-1,2-Dichloroethene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,3-Dichloropropane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,2-Dichloropropane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
2,2-Dichloropropane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
cis-1,3-Dichloropropene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
trans-1,3-Dichloropropene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,1-Dichloropropene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Ethylbenzene	**0.726**		mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Hexachlorobutadiene	ND	RL1	mg/kg	0.226	50	03/19/09 20:08	SW846 8260B	9031847
2-Hexanone	ND	RL1	mg/kg	2.26	50	03/19/09 20:08	SW846 8260B	9031847
Isopropylbenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
p-Isopropyltoluene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847

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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-09 (EV-8 8-9 - Soil) - cont. Sampled: 03/11/09 08:10

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Methylene Chloride	ND	RL1	mg/kg	0.452	50	03/19/09 20:08	SW846 8260B	9031847
4-Methyl-2-pentanone	ND	RL1	mg/kg	2.26	50	03/19/09 20:08	SW846 8260B	9031847
Naphthalene	ND	RL1	mg/kg	0.226	50	03/19/09 20:08	SW846 8260B	9031847
n-Propylbenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Styrene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Tetrachloroethene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Toluene	**219**		mg/kg	9.04	5000	03/21/09 05:25	SW846 8260B	9033311
1,2,3-Trichlorobenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,2,4-Trichlorobenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,1,2-Trichloroethane	ND	RL1	mg/kg	0.226	50	03/19/09 20:08	SW846 8260B	9031847
1,1,1-Trichloroethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Trichloroethene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Trichlorofluoromethane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,2,3-Trichloropropane	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,3,5-Trimethylbenzene	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
1,2,4-Trimethylbenzene	**0.171**		mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Vinyl chloride	ND	RL1	mg/kg	0.0904	50	03/19/09 20:08	SW846 8260B	9031847
Xylenes, total	**2.76**		mg/kg	0.226	50	03/19/09 20:08	SW846 8260B	9031847
Surr: 1,2-Dichloroethane-d4 (41-150%)	*108 %*					*03/19/09 20:08*	*SW846 8260B*	*9031847*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*107 %*					*03/20/09 18:13*	*SW846 8260B*	*9033307*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*107 %*					*03/21/09 05:25*	*SW846 8260B*	*9033311*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/19/09 20:08*	*SW846 8260B*	*9031847*
Surr: Dibromofluoromethane (55-139%)	*106 %*					*03/20/09 18:13*	*SW846 8260B*	*9033307*
Surr: Dibromofluoromethane (55-139%)	*108 %*					*03/21/09 05:25*	*SW846 8260B*	*9033311*
Surr: Toluene-d8 (57-148%)	*100 %*					*03/19/09 20:08*	*SW846 8260B*	*9031847*
Surr: Toluene-d8 (57-148%)	*103 %*					*03/20/09 18:13*	*SW846 8260B*	*9033307*
Surr: Toluene-d8 (57-148%)	*103 %*					*03/21/09 05:25*	*SW846 8260B*	*9033311*
Surr: 4-Bromofluorobenzene (58-150%)	*93 %*					*03/19/09 20:08*	*SW846 8260B*	*9031847*
Surr: 4-Bromofluorobenzene (58-150%)	*100 %*					*03/20/09 18:13*	*SW846 8260B*	*9033307*
Surr: 4-Bromofluorobenzene (58-150%)	*100 %*					*03/21/09 05:25*	*SW846 8260B*	*9033311*

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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Sample ID: NSC1000-10 (Trip Blank - Water) Sampled: 03/10/09 00:01

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	50.0	1	03/17/09 16:27	SW846 8260B	9031856
Benzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Bromobenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Bromochloromethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Bromodichloromethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Bromoform	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Bromomethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
2-Butanone	ND		ug/L	50.0	1	03/17/09 16:27	SW846 8260B	9031856
sec-Butylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
n-Butylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
tert-Butylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Carbon disulfide	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Carbon Tetrachloride	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Chlorobenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Chlorodibromomethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Chloroethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Chloroform	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Chloromethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
2-Chlorotoluene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
4-Chlorotoluene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Dibromomethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,4-Dichlorobenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,3-Dichlorobenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2-Dichlorobenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Dichlorodifluoromethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,1-Dichloroethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2-Dichloroethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,1-Dichloroethene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,3-Dichloropropane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2-Dichloropropane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
2,2-Dichloropropane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,1-Dichloropropene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Ethylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Hexachlorobutadiene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
2-Hexanone	ND		ug/L	50.0	1	03/17/09 16:27	SW846 8260B	9031856
Isopropylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
p-Isopropyltoluene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856

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Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC1000-10 (Trip Blank - Water) - cont. Sampled: 03/10/09 00:01								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Methylene Chloride	ND		ug/L	5.00	1	03/17/09 16:27	SW846 8260B	9031856
4-Methyl-2-pentanone	ND		ug/L	10.0	1	03/17/09 16:27	SW846 8260B	9031856
Naphthalene	ND		ug/L	5.00	1	03/17/09 16:27	SW846 8260B	9031856
n-Propylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Styrene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Tetrachloroethene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Toluene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,1,2-Trichloroethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,1,1-Trichloroethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Trichloroethene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Trichlorofluoromethane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2,3-Trichloropropane	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Vinyl chloride	ND		ug/L	1.00	1	03/17/09 16:27	SW846 8260B	9031856
Xylenes, total	ND		ug/L	3.00	1	03/17/09 16:27	SW846 8260B	9031856
Surr: 1,2-Dichloroethane-d4 (60-140%)	*101 %*					*03/17/09 16:27*	*SW846 8260B*	*9031856*
Surr: Dibromofluoromethane (75-124%)	*100 %*					*03/17/09 16:27*	*SW846 8260B*	*9031856*
Surr: Toluene-d8 (78-121%)	*96 %*					*03/17/09 16:27*	*SW846 8260B*	*9031856*
Surr: 4-Bromofluorobenzene (79-124%)	*107 %*					*03/17/09 16:27*	*SW846 8260B*	*9031856*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9031847	NSC1000-01	5.49	5.00	03/13/09 10:01	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-01RE1	5.49	5.00	03/13/09 10:01	JRL	EPA 5035
SW846 8260B	9033311	NSC1000-01RE2	5.49	5.00	03/13/09 10:01	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-02	5.24	5.00	03/13/09 10:10	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-02RE1	5.24	5.00	03/13/09 10:10	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-02RE2	5.24	5.00	03/13/09 10:10	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-03	5.22	5.00	03/13/09 10:19	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-03RE1	5.22	5.00	03/13/09 10:19	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-03RE2	5.22	5.00	03/13/09 10:19	JRL	EPA 5035
SW846 8260B	9033311	NSC1000-03RE3	5.22	5.00	03/13/09 10:19	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-04	5.40	5.00	03/13/09 10:28	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-04RE1	5.40	5.00	03/13/09 10:28	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-04RE2	5.40	5.00	03/13/09 10:28	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-05	5.54	5.00	03/13/09 10:37	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-05RE1	5.54	5.00	03/13/09 10:37	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-06	5.31	5.00	03/13/09 10:41	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-06RE1	5.31	5.00	03/13/09 10:41	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-07	5.79	5.00	03/13/09 10:45	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-07RE1	5.79	5.00	03/13/09 10:45	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-08	5.61	5.00	03/13/09 10:51	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-08RE1	5.61	5.00	03/13/09 10:51	JRL	EPA 5035
SW846 8260B	9031847	NSC1000-09	5.53	5.00	03/13/09 10:56	JRL	EPA 5035
SW846 8260B	9033307	NSC1000-09RE1	5.53	5.00	03/13/09 10:56	JRL	EPA 5035
SW846 8260B	9033311	NSC1000-09RE2	5.53	5.00	03/13/09 10:56	JRL	EPA 5035

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9031847-BLK1						
Acetone	<1.25		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Benzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Bromobenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Bromochloromethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Bromodichloromethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Bromoform	<0.0265		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Bromomethane	<0.0785		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
2-Butanone	<0.250		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
sec-Butylbenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
n-Butylbenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
tert-Butylbenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Carbon disulfide	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Carbon Tetrachloride	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Chlorobenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Chlorodibromomethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Chloroethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Chloroform	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Chloromethane	<0.0440		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
2-Chlorotoluene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
4-Chlorotoluene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2-Dibromo-3-chloropropane	<0.0500		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2-Dibromoethane (EDB)	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Dibromomethane	<0.0270		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,4-Dichlorobenzene	<0.0320		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,3-Dichlorobenzene	<0.0265		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2-Dichlorobenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Dichlorodifluoromethane	<0.0465		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,1-Dichloroethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2-Dichloroethane	<0.0400		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
cis-1,2-Dichloroethene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,1-Dichloroethene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
trans-1,2-Dichloroethene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,3-Dichloropropane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2-Dichloropropane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
2,2-Dichloropropane	<0.0210		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
cis-1,3-Dichloropropene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
trans-1,3-Dichloropropene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,1-Dichloropropene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Ethylbenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Hexachlorobutadiene	0.0605		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
2-Hexanone	<0.204		mg/kg	9031847	9031847-BLK1	03/19/09 13:01

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9031847-BLK1						
Isopropylbenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
p-Isopropyltoluene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Methyl tert-Butyl Ether	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Methylene Chloride	<0.174		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
4-Methyl-2-pentanone	<0.213		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Naphthalene	<0.0755		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
n-Propylbenzene	<0.0265		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Styrene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,1,1,2-Tetrachloroethane	<0.0250		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,1,2,2-Tetrachloroethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Tetrachloroethene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Toluene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2,3-Trichlorobenzene	<0.0330		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2,4-Trichlorobenzene	<0.0325		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,1,2-Trichloroethane	<0.0510		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,1,1-Trichloroethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Trichloroethene	<0.0140		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Trichlorofluoromethane	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2,3-Trichloropropane	<0.0275		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,3,5-Trimethylbenzene	<0.0335		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
1,2,4-Trimethylbenzene	<0.0635		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Vinyl chloride	<0.0355		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Xylenes, total	<0.0860		mg/kg	9031847	9031847-BLK1	03/19/09 13:01
Surrogate: 1,2-Dichloroethane-d4	109%			9031847	9031847-BLK1	03/19/09 13:01
Surrogate: Dibromofluoromethane	107%			9031847	9031847-BLK1	03/19/09 13:01
Surrogate: Toluene-d8	100%			9031847	9031847-BLK1	03/19/09 13:01
Surrogate: 4-Bromofluorobenzene	100%			9031847	9031847-BLK1	03/19/09 13:01
9031856-BLK1						
Acetone	<25.0		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Benzene	<0.270		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Bromobenzene	<0.360		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Bromochloromethane	<0.400		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Bromodichloromethane	<0.350		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Bromoform	<0.430		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Bromomethane	<0.420		ug/L	9031856	9031856-BLK1	03/17/09 13:31
2-Butanone	<2.40		ug/L	9031856	9031856-BLK1	03/17/09 13:31
sec-Butylbenzene	<0.140		ug/L	9031856	9031856-BLK1	03/17/09 13:31
n-Butylbenzene	<0.280		ug/L	9031856	9031856-BLK1	03/17/09 13:31
tert-Butylbenzene	<0.330		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Carbon disulfide	<0.380		ug/L	9031856	9031856-BLK1	03/17/09 13:31

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9031856-BLK1						
Carbon Tetrachloride	<0.350		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Chlorobenzene	<0.180		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Chlorodibromomethane	<0.280		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Chloroethane	<0.450		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Chloroform	<0.280		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Chloromethane	<0.380		ug/L	9031856	9031856-BLK1	03/17/09 13:31
2-Chlorotoluene	<0.300		ug/L	9031856	9031856-BLK1	03/17/09 13:31
4-Chlorotoluene	<0.330		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2-Dibromoethane (EDB)	<0.390		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Dibromomethane	<0.350		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,4-Dichlorobenzene	<0.380		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,3-Dichlorobenzene	<0.350		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2-Dichlorobenzene	<0.500		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Dichlorodifluoromethane	<0.460		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,1-Dichloroethane	<0.540		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2-Dichloroethane	<0.370		ug/L	9031856	9031856-BLK1	03/17/09 13:31
cis-1,2-Dichloroethene	<0.390		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,1-Dichloroethene	<0.340		ug/L	9031856	9031856-BLK1	03/17/09 13:31
trans-1,2-Dichloroethene	<0.470		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,3-Dichloropropane	<0.290		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2-Dichloropropane	<0.320		ug/L	9031856	9031856-BLK1	03/17/09 13:31
2,2-Dichloropropane	<0.420		ug/L	9031856	9031856-BLK1	03/17/09 13:31
cis-1,3-Dichloropropene	<0.290		ug/L	9031856	9031856-BLK1	03/17/09 13:31
trans-1,3-Dichloropropene	<0.330		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,1-Dichloropropene	<0.310		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Ethylbenzene	<0.240		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Hexachlorobutadiene	<0.910		ug/L	9031856	9031856-BLK1	03/17/09 13:31
2-Hexanone	<16.7		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Isopropylbenzene	<0.300		ug/L	9031856	9031856-BLK1	03/17/09 13:31
p-Isopropyltoluene	<0.220		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Methyl tert-Butyl Ether	<0.420		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Methylene Chloride	0.940		ug/L	9031856	9031856-BLK1	03/17/09 13:31
4-Methyl-2-pentanone	<3.49		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Naphthalene	<0.540		ug/L	9031856	9031856-BLK1	03/17/09 13:31
n-Propylbenzene	<0.290		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Styrene	<0.330		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,1,1,2-Tetrachloroethane	<0.290		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,1,2,2-Tetrachloroethane	<0.290		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Tetrachloroethene	<0.230		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Toluene	<0.280		ug/L	9031856	9031856-BLK1	03/17/09 13:31

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9031856-BLK1						
1,2,3-Trichlorobenzene	<0.940		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2,4-Trichlorobenzene	<0.500		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,1,2-Trichloroethane	<0.400		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,1,1-Trichloroethane	<0.370		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Trichloroethene	<0.230		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Trichlorofluoromethane	<0.350		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2,3-Trichloropropane	<0.290		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,3,5-Trimethylbenzene	<0.160		ug/L	9031856	9031856-BLK1	03/17/09 13:31
1,2,4-Trimethylbenzene	<0.170		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Vinyl chloride	<0.290		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Xylenes, total	<0.860		ug/L	9031856	9031856-BLK1	03/17/09 13:31
Surrogate: 1,2-Dichloroethane-d4	99%			9031856	9031856-BLK1	03/17/09 13:31
Surrogate: Dibromofluoromethane	98%			9031856	9031856-BLK1	03/17/09 13:31
Surrogate: Toluene-d8	96%			9031856	9031856-BLK1	03/17/09 13:31
Surrogate: 4-Bromofluorobenzene	105%			9031856	9031856-BLK1	03/17/09 13:31
9033307-BLK1						
Acetone	<1.25		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Benzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Bromobenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Bromochloromethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Bromodichloromethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Bromoform	<0.0265		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Bromomethane	<0.0785		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
2-Butanone	<0.250		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
sec-Butylbenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
n-Butylbenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
tert-Butylbenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Carbon disulfide	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Carbon Tetrachloride	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Chlorobenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Chlorodibromomethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Chloroethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Chloroform	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Chloromethane	<0.0440		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
2-Chlorotoluene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
4-Chlorotoluene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2-Dibromo-3-chloropropane	<0.0500		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2-Dibromoethane (EDB)	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Dibromomethane	<0.0270		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,4-Dichlorobenzene	<0.0320		mg/kg	9033307	9033307-BLK1	03/20/09 13:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9033307-BLK1						
1,3-Dichlorobenzene	<0.0265		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2-Dichlorobenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Dichlorodifluoromethane	<0.0465		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,1-Dichloroethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2-Dichloroethane	<0.0400		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
cis-1,2-Dichloroethene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,1-Dichloroethene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
trans-1,2-Dichloroethene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,3-Dichloropropane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2-Dichloropropane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
2,2-Dichloropropane	<0.0210		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
cis-1,3-Dichloropropene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
trans-1,3-Dichloropropene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,1-Dichloropropene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Ethylbenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Hexachlorobutadiene	0.0545		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
2-Hexanone	<0.204		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Isopropylbenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
p-Isopropyltoluene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Methyl tert-Butyl Ether	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Methylene Chloride	<0.174		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
4-Methyl-2-pentanone	<0.213		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Naphthalene	<0.0755		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
n-Propylbenzene	<0.0265		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Styrene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,1,1,2-Tetrachloroethane	<0.0250		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,1,2,2-Tetrachloroethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Tetrachloroethene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Toluene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2,3-Trichlorobenzene	<0.0330		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2,4-Trichlorobenzene	<0.0325		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,1,2-Trichloroethane	<0.0510		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,1,1-Trichloroethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Trichloroethene	<0.0140		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Trichlorofluoromethane	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2,3-Trichloropropane	<0.0275		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,3,5-Trimethylbenzene	<0.0335		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
1,2,4-Trimethylbenzene	<0.0635		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Vinyl chloride	<0.0355		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Xylenes, total	<0.0860		mg/kg	9033307	9033307-BLK1	03/20/09 13:45
Surrogate: 1,2-Dichloroethane-d4	109%			9033307	9033307-BLK1	03/20/09 13:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9033307-BLK1						
Surrogate: Dibromofluoromethane	107%			9033307	9033307-BLK1	03/20/09 13:45
Surrogate: Toluene-d8	100%			9033307	9033307-BLK1	03/20/09 13:45
Surrogate: 4-Bromofluorobenzene	100%			9033307	9033307-BLK1	03/20/09 13:45
9033311-BLK1						
Acetone	<1.25		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Benzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Bromobenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Bromochloromethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Bromodichloromethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Bromoform	<0.0265		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Bromomethane	<0.0785		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
2-Butanone	<0.250		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
sec-Butylbenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
n-Butylbenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
tert-Butylbenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Carbon disulfide	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Carbon Tetrachloride	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Chlorobenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Chlorodibromomethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Chloroethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Chloroform	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Chloromethane	<0.0440		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
2-Chlorotoluene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
4-Chlorotoluene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2-Dibromo-3-chloropropane	<0.0500		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2-Dibromoethane (EDB)	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Dibromomethane	<0.0270		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,4-Dichlorobenzene	<0.0320		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,3-Dichlorobenzene	<0.0265		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2-Dichlorobenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Dichlorodifluoromethane	<0.0465		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,1-Dichloroethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2-Dichloroethane	<0.0400		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
cis-1,2-Dichloroethene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,1-Dichloroethene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
trans-1,2-Dichloroethene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,3-Dichloropropane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2-Dichloropropane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
2,2-Dichloropropane	<0.0210		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
cis-1,3-Dichloropropene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9033311-BLK1						
trans-1,3-Dichloropropene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,1-Dichloropropene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Ethylbenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Hexachlorobutadiene	0.0570		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
2-Hexanone	<0.204		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Isopropylbenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
p-Isopropyltoluene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Methyl tert-Butyl Ether	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Methylene Chloride	<0.174		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
4-Methyl-2-pentanone	<0.213		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Naphthalene	<0.0755		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
n-Propylbenzene	<0.0265		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Styrene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,1,1,2-Tetrachloroethane	<0.0250		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,1,2,2-Tetrachloroethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Tetrachloroethene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Toluene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2,3-Trichlorobenzene	<0.0330		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2,4-Trichlorobenzene	<0.0325		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,1,2-Trichloroethane	<0.0510		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,1,1-Trichloroethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Trichloroethene	<0.0140		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Trichlorofluoromethane	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2,3-Trichloropropane	<0.0275		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,3,5-Trimethylbenzene	<0.0335		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
1,2,4-Trimethylbenzene	<0.0635		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Vinyl chloride	<0.0355		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Xylenes, total	<0.0860		mg/kg	9033311	9033311-BLK1	03/21/09 04:31
Surrogate: 1,2-Dichloroethane-d4	108%			9033311	9033311-BLK1	03/21/09 04:31
Surrogate: Dibromofluoromethane	108%			9033311	9033311-BLK1	03/21/09 04:31
Surrogate: Toluene-d8	101%			9033311	9033311-BLK1	03/21/09 04:31
Surrogate: 4-Bromofluorobenzene	99%			9033311	9033311-BLK1	03/21/09 04:31

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9031847-BS1								
Acetone	250	254		ug/kg	101%	49 - 150	9031847	03/19/09 11:13
Benzene	50.0	53.3		ug/kg	107%	76 - 130	9031847	03/19/09 11:13
Bromobenzene	50.0	51.8		ug/kg	104%	80 - 128	9031847	03/19/09 11:13
Bromochloromethane	50.0	53.8		ug/kg	108%	70 - 135	9031847	03/19/09 11:13
Bromodichloromethane	50.0	52.2		ug/kg	104%	78 - 135	9031847	03/19/09 11:13
Bromoform	50.0	54.8		ug/kg	110%	67 - 143	9031847	03/19/09 11:13
Bromomethane	50.0	58.2		ug/kg	116%	58 - 150	9031847	03/19/09 11:13
2-Butanone	250	282		ug/kg	113%	61 - 143	9031847	03/19/09 11:13
sec-Butylbenzene	50.0	54.4		ug/kg	109%	80 - 134	9031847	03/19/09 11:13
n-Butylbenzene	50.0	55.6		ug/kg	111%	71 - 141	9031847	03/19/09 11:13
tert-Butylbenzene	50.0	53.4		ug/kg	107%	79 - 132	9031847	03/19/09 11:13
Carbon disulfide	50.0	61.5		ug/kg	123%	70 - 134	9031847	03/19/09 11:13
Carbon Tetrachloride	50.0	51.3		ug/kg	103%	75 - 137	9031847	03/19/09 11:13
Chlorobenzene	50.0	52.7		ug/kg	105%	80 - 121	9031847	03/19/09 11:13
Chlorodibromomethane	50.0	52.7		ug/kg	105%	77 - 130	9031847	03/19/09 11:13
Chloroethane	50.0	49.8		ug/kg	100%	62 - 149	9031847	03/19/09 11:13
Chloroform	50.0	53.9		ug/kg	108%	75 - 130	9031847	03/19/09 11:13
Chloromethane	50.0	43.2		ug/kg	86%	35 - 130	9031847	03/19/09 11:13
2-Chlorotoluene	50.0	51.7		ug/kg	103%	80 - 131	9031847	03/19/09 11:13
4-Chlorotoluene	50.0	50.9		ug/kg	102%	80 - 129	9031847	03/19/09 11:13
1,2-Dibromo-3-chloropropane	50.0	59.2		ug/kg	118%	62 - 142	9031847	03/19/09 11:13
1,2-Dibromoethane (EDB)	50.0	53.3		ug/kg	107%	81 - 130	9031847	03/19/09 11:13
Dibromomethane	50.0	50.9		ug/kg	102%	77 - 133	9031847	03/19/09 11:13
1,4-Dichlorobenzene	50.0	51.8		ug/kg	104%	75 - 128	9031847	03/19/09 11:13
1,3-Dichlorobenzene	50.0	52.6		ug/kg	105%	79 - 128	9031847	03/19/09 11:13
1,2-Dichlorobenzene	50.0	55.1		ug/kg	110%	80 - 130	9031847	03/19/09 11:13
Dichlorodifluoromethane	50.0	34.9		ug/kg	70%	11 - 129	9031847	03/19/09 11:13
1,1-Dichloroethane	50.0	50.0		ug/kg	100%	68 - 150	9031847	03/19/09 11:13
1,2-Dichloroethane	50.0	49.3		ug/kg	99%	72 - 132	9031847	03/19/09 11:13
cis-1,2-Dichloroethene	50.0	49.9		ug/kg	100%	77 - 132	9031847	03/19/09 11:13
1,1-Dichloroethene	50.0	49.7		ug/kg	99%	75 - 133	9031847	03/19/09 11:13
trans-1,2-Dichloroethene	50.0	49.2		ug/kg	98%	79 - 133	9031847	03/19/09 11:13
1,3-Dichloropropane	50.0	52.8		ug/kg	106%	80 - 125	9031847	03/19/09 11:13
1,2-Dichloropropane	50.0	50.9		ug/kg	102%	75 - 124	9031847	03/19/09 11:13
2,2-Dichloropropane	50.0	50.8		ug/kg	102%	59 - 144	9031847	03/19/09 11:13
cis-1,3-Dichloropropene	50.0	50.1		ug/kg	100%	80 - 137	9031847	03/19/09 11:13
trans-1,3-Dichloropropene	50.0	51.3		ug/kg	103%	75 - 133	9031847	03/19/09 11:13
1,1-Dichloropropene	50.0	52.2		ug/kg	104%	76 - 133	9031847	03/19/09 11:13
Ethylbenzene	50.0	51.0		ug/kg	102%	80 - 128	9031847	03/19/09 11:13
Hexachlorobutadiene	50.0	57.1		ug/kg	114%	60 - 150	9031847	03/19/09 11:13
2-Hexanone	250	282		ug/kg	113%	63 - 149	9031847	03/19/09 11:13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9031847-BS1								
Isopropylbenzene	50.0	54.2		ug/kg	108%	74 - 131	9031847	03/19/09 11:13
p-Isopropyltoluene	50.0	53.4		ug/kg	107%	75 - 133	9031847	03/19/09 11:13
Methyl tert-Butyl Ether	50.0	51.0		ug/kg	102%	67 - 130	9031847	03/19/09 11:13
Methylene Chloride	50.0	55.9		ug/kg	112%	65 - 144	9031847	03/19/09 11:13
4-Methyl-2-pentanone	250	270		ug/kg	108%	64 - 142	9031847	03/19/09 11:13
Naphthalene	50.0	53.4		ug/kg	107%	63 - 144	9031847	03/19/09 11:13
n-Propylbenzene	50.0	53.7		ug/kg	107%	80 - 131	9031847	03/19/09 11:13
Styrene	50.0	56.8		ug/kg	114%	80 - 144	9031847	03/19/09 11:13
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/kg	106%	80 - 129	9031847	03/19/09 11:13
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/kg	106%	73 - 139	9031847	03/19/09 11:13
Tetrachloroethene	50.0	52.5		ug/kg	105%	76 - 128	9031847	03/19/09 11:13
Toluene	50.0	49.6		ug/kg	99%	80 - 125	9031847	03/19/09 11:13
1,2,3-Trichlorobenzene	50.0	58.1		ug/kg	116%	64 - 136	9031847	03/19/09 11:13
1,2,4-Trichlorobenzene	50.0	58.0		ug/kg	116%	58 - 145	9031847	03/19/09 11:13
1,1,2-Trichloroethane	50.0	52.9		ug/kg	106%	80 - 127	9031847	03/19/09 11:13
1,1,1-Trichloroethane	50.0	51.4		ug/kg	103%	76 - 134	9031847	03/19/09 11:13
Trichloroethene	50.0	55.4		ug/kg	111%	75 - 131	9031847	03/19/09 11:13
Trichlorofluoromethane	50.0	38.0		ug/kg	76%	63 - 130	9031847	03/19/09 11:13
1,2,3-Trichloropropane	50.0	51.1		ug/kg	102%	66 - 129	9031847	03/19/09 11:13
1,3,5-Trimethylbenzene	50.0	52.9		ug/kg	106%	78 - 133	9031847	03/19/09 11:13
1,2,4-Trimethylbenzene	50.0	50.6		ug/kg	101%	76 - 135	9031847	03/19/09 11:13
Vinyl chloride	50.0	43.2		ug/kg	86%	58 - 134	9031847	03/19/09 11:13
Xylenes, total	150	143		ug/kg	95%	79 - 130	9031847	03/19/09 11:13
1,2-Dichloroethene (total)	100	99.1		ug/kg	99%	78 - 132	9031847	03/19/09 11:13
1,1,2-Trifluorotrichloroethane	50.0	51.1		ug/kg	102%	73 - 126	9031847	03/19/09 11:13
Surrogate: 1,2-Dichloroethane-d4	25.0	23.0			92%	41 - 150	9031847	03/19/09 11:13
Surrogate: Dibromofluoromethane	25.0	23.7			95%	55 - 139	9031847	03/19/09 11:13
Surrogate: Toluene-d8	25.0	24.2			97%	57 - 148	9031847	03/19/09 11:13
Surrogate: 4-Bromofluorobenzene	25.0	24.5			98%	58 - 150	9031847	03/19/09 11:13
9031856-BS1								
Acetone	250	297	MNR1	ug/L	119%	62 - 150	9031856	03/17/09 11:36
Benzene	50.0	53.6	MNR1	ug/L	107%	80 - 137	9031856	03/17/09 11:36
Bromobenzene	50.0	48.9	MNR1	ug/L	98%	74 - 131	9031856	03/17/09 11:36
Bromochloromethane	50.0	56.0	MNR1	ug/L	112%	80 - 128	9031856	03/17/09 11:36
Bromodichloromethane	50.0	58.5	MNR1	ug/L	117%	80 - 129	9031856	03/17/09 11:36
Bromoform	50.0	47.3	MNR1	ug/L	95%	69 - 127	9031856	03/17/09 11:36
Bromomethane	50.0	49.0	MNR1	ug/L	98%	62 - 148	9031856	03/17/09 11:36
2-Butanone	250	284	MNR1	ug/L	113%	77 - 141	9031856	03/17/09 11:36
sec-Butylbenzene	50.0	50.9	MNR1	ug/L	102%	78 - 133	9031856	03/17/09 11:36
n-Butylbenzene	50.0	50.6	MNR1	ug/L	101%	72 - 136	9031856	03/17/09 11:36

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9031856-BS1								
tert-Butylbenzene	50.0	52.5	MNR1	ug/L	105%	77 - 135	9031856	03/17/09 11:36
Carbon disulfide	50.0	56.7	MNR1	ug/L	113%	80 - 126	9031856	03/17/09 11:36
Carbon Tetrachloride	50.0	57.5	MNR1	ug/L	115%	76 - 143	9031856	03/17/09 11:36
Chlorobenzene	50.0	47.8	MNR1	ug/L	96%	80 - 120	9031856	03/17/09 11:36
Chlorodibromomethane	50.0	56.1	MNR1	ug/L	112%	76 - 123	9031856	03/17/09 11:36
Chloroethane	50.0	49.0	MNR1	ug/L	98%	77 - 127	9031856	03/17/09 11:36
Chloroform	50.0	54.2	MNR1	ug/L	108%	80 - 133	9031856	03/17/09 11:36
Chloromethane	50.0	43.7	MNR1	ug/L	87%	33 - 125	9031856	03/17/09 11:36
2-Chlorotoluene	50.0	48.6	MNR1	ug/L	97%	80 - 127	9031856	03/17/09 11:36
4-Chlorotoluene	50.0	47.3	MNR1	ug/L	95%	80 - 127	9031856	03/17/09 11:36
1,2-Dibromo-3-chloropropane	50.0	50.8	MNR1	ug/L	102%	60 - 136	9031856	03/17/09 11:36
1,2-Dibromoethane (EDB)	50.0	51.2	MNR1	ug/L	102%	80 - 125	9031856	03/17/09 11:36
Dibromomethane	50.0	54.7	MNR1	ug/L	109%	80 - 124	9031856	03/17/09 11:36
1,4-Dichlorobenzene	50.0	47.2	MNR1	ug/L	94%	80 - 120	9031856	03/17/09 11:36
1,3-Dichlorobenzene	50.0	49.0	MNR1	ug/L	98%	80 - 123	9031856	03/17/09 11:36
1,2-Dichlorobenzene	50.0	49.0	MNR1	ug/L	98%	80 - 122	9031856	03/17/09 11:36
Dichlorodifluoromethane	50.0	35.4	MNR1	ug/L	71%	36 - 120	9031856	03/17/09 11:36
1,1-Dichloroethane	50.0	54.2	MNR1	ug/L	108%	76 - 130	9031856	03/17/09 11:36
1,2-Dichloroethane	50.0	52.5	MNR1	ug/L	105%	69 - 136	9031856	03/17/09 11:36
cis-1,2-Dichloroethene	50.0	55.2	MNR1	ug/L	110%	80 - 129	9031856	03/17/09 11:36
1,1-Dichloroethene	50.0	54.7	MNR1	ug/L	109%	80 - 127	9031856	03/17/09 11:36
trans-1,2-Dichloroethene	50.0	54.8	MNR1	ug/L	110%	80 - 131	9031856	03/17/09 11:36
1,3-Dichloropropane	50.0	48.6	MNR1	ug/L	97%	80 - 122	9031856	03/17/09 11:36
1,2-Dichloropropane	50.0	51.6	MNR1	ug/L	103%	80 - 120	9031856	03/17/09 11:36
2,2-Dichloropropane	50.0	58.1	MNR1	ug/L	116%	62 - 142	9031856	03/17/09 11:36
cis-1,3-Dichloropropene	50.0	53.9	MNR1	ug/L	108%	76 - 135	9031856	03/17/09 11:36
trans-1,3-Dichloropropene	50.0	55.0	MNR1	ug/L	110%	70 - 137	9031856	03/17/09 11:36
1,1-Dichloropropene	50.0	53.5	MNR1	ug/L	107%	80 - 127	9031856	03/17/09 11:36
Ethylbenzene	50.0	49.6	MNR1	ug/L	99%	80 - 128	9031856	03/17/09 11:36
Hexachlorobutadiene	50.0	52.8	MNR1	ug/L	106%	68 - 148	9031856	03/17/09 11:36
2-Hexanone	250	268	MNR1	ug/L	107%	69 - 148	9031856	03/17/09 11:36
Isopropylbenzene	50.0	55.1	MNR1	ug/L	110%	80 - 121	9031856	03/17/09 11:36
p-Isopropyltoluene	50.0	50.7	MNR1	ug/L	101%	79 - 127	9031856	03/17/09 11:36
Methyl tert-Butyl Ether	50.0	57.3	MNR1	ug/L	115%	70 - 129	9031856	03/17/09 11:36
Methylene Chloride	50.0	54.5	MNR1	ug/L	109%	76 - 135	9031856	03/17/09 11:36
4-Methyl-2-pentanone	250	255	MNR1	ug/L	102%	67 - 143	9031856	03/17/09 11:36
Naphthalene	50.0	60.2	MNR1	ug/L	120%	62 - 141	9031856	03/17/09 11:36
n-Propylbenzene	50.0	49.4	MNR1	ug/L	99%	80 - 132	9031856	03/17/09 11:36
Styrene	50.0	56.2	MNR1	ug/L	112%	80 - 139	9031856	03/17/09 11:36
1,1,1,2-Tetrachloroethane	50.0	53.2	MNR1	ug/L	106%	80 - 135	9031856	03/17/09 11:36
1,1,2,2-Tetrachloroethane	50.0	50.6	MNR1	ug/L	101%	65 - 145	9031856	03/17/09 11:36

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9031856-BS1								
Tetrachloroethene	50.0	50.9	MNR1	ug/L	102%	80 - 125	9031856	03/17/09 11:36
Toluene	50.0	49.0	MNR1	ug/L	98%	80 - 125	9031856	03/17/09 11:36
1,2,3-Trichlorobenzene	50.0	53.2	MNR1	ug/L	106%	57 - 144	9031856	03/17/09 11:36
1,2,4-Trichlorobenzene	50.0	53.8	MNR1	ug/L	108%	60 - 140	9031856	03/17/09 11:36
1,1,2-Trichloroethane	50.0	49.7	MNR1	ug/L	99%	80 - 122	9031856	03/17/09 11:36
1,1,1-Trichloroethane	50.0	54.0	MNR1	ug/L	108%	80 - 131	9031856	03/17/09 11:36
Trichloroethene	50.0	54.9	MNR1	ug/L	110%	80 - 131	9031856	03/17/09 11:36
Trichlorofluoromethane	50.0	42.6	MNR1	ug/L	85%	68 - 125	9031856	03/17/09 11:36
1,2,3-Trichloropropane	50.0	48.7	MNR1	ug/L	97%	60 - 127	9031856	03/17/09 11:36
1,3,5-Trimethylbenzene	50.0	50.6	MNR1	ug/L	101%	80 - 129	9031856	03/17/09 11:36
1,2,4-Trimethylbenzene	50.0	50.0	MNR1	ug/L	100%	80 - 128	9031856	03/17/09 11:36
Vinyl chloride	50.0	47.0	MNR1	ug/L	94%	69 - 120	9031856	03/17/09 11:36
Xylenes, total	150	151	MNR1	ug/L	100%	80 - 129	9031856	03/17/09 11:36
Surrogate: 1,2-Dichloroethane-d4	30.0	29.3			98%	60 - 140	9031856	03/17/09 11:36
Surrogate: Dibromofluoromethane	30.0	30.8			103%	75 - 124	9031856	03/17/09 11:36
Surrogate: Toluene-d8	30.0	28.2			94%	78 - 121	9031856	03/17/09 11:36
Surrogate: 4-Bromofluorobenzene	30.0	30.3			101%	79 - 124	9031856	03/17/09 11:36
9033307-BS1								
Acetone	250	261		ug/kg	105%	49 - 150	9033307	03/20/09 11:57
Benzene	50.0	52.4		ug/kg	105%	76 - 130	9033307	03/20/09 11:57
Bromobenzene	50.0	49.1		ug/kg	98%	80 - 128	9033307	03/20/09 11:57
Bromochloromethane	50.0	56.9		ug/kg	114%	70 - 135	9033307	03/20/09 11:57
Bromodichloromethane	50.0	50.7		ug/kg	101%	78 - 135	9033307	03/20/09 11:57
Bromoform	50.0	53.2		ug/kg	106%	67 - 143	9033307	03/20/09 11:57
Bromomethane	50.0	56.0		ug/kg	112%	58 - 150	9033307	03/20/09 11:57
2-Butanone	250	285		ug/kg	114%	61 - 143	9033307	03/20/09 11:57
sec-Butylbenzene	50.0	53.4		ug/kg	107%	80 - 134	9033307	03/20/09 11:57
n-Butylbenzene	50.0	54.9		ug/kg	110%	71 - 141	9033307	03/20/09 11:57
tert-Butylbenzene	50.0	52.7		ug/kg	105%	79 - 132	9033307	03/20/09 11:57
Carbon disulfide	50.0	61.8		ug/kg	124%	70 - 134	9033307	03/20/09 11:57
Carbon Tetrachloride	50.0	49.0		ug/kg	98%	75 - 137	9033307	03/20/09 11:57
Chlorobenzene	50.0	51.7		ug/kg	103%	80 - 121	9033307	03/20/09 11:57
Chlorodibromomethane	50.0	51.5		ug/kg	103%	77 - 130	9033307	03/20/09 11:57
Chloroethane	50.0	48.4		ug/kg	97%	62 - 149	9033307	03/20/09 11:57
Chloroform	50.0	52.7		ug/kg	105%	75 - 130	9033307	03/20/09 11:57
Chloromethane	50.0	43.3		ug/kg	87%	35 - 130	9033307	03/20/09 11:57
2-Chlorotoluene	50.0	50.0		ug/kg	100%	80 - 131	9033307	03/20/09 11:57
4-Chlorotoluene	50.0	49.3		ug/kg	99%	80 - 129	9033307	03/20/09 11:57
1,2-Dibromo-3-chloropropane	50.0	54.3		ug/kg	109%	62 - 142	9033307	03/20/09 11:57
1,2-Dibromoethane (EDB)	50.0	52.9		ug/kg	106%	81 - 130	9033307	03/20/09 11:57

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9033307-BS1								
Dibromomethane	50.0	50.8		ug/kg	102%	77 - 133	9033307	03/20/09 11:57
1,4-Dichlorobenzene	50.0	50.4		ug/kg	101%	75 - 128	9033307	03/20/09 11:57
1,3-Dichlorobenzene	50.0	51.0		ug/kg	102%	79 - 128	9033307	03/20/09 11:57
1,2-Dichlorobenzene	50.0	53.9		ug/kg	108%	80 - 130	9033307	03/20/09 11:57
Dichlorodifluoromethane	50.0	38.9		ug/kg	78%	11 - 129	9033307	03/20/09 11:57
1,1-Dichloroethane	50.0	46.3		ug/kg	93%	68 - 150	9033307	03/20/09 11:57
1,2-Dichloroethane	50.0	48.4		ug/kg	97%	72 - 132	9033307	03/20/09 11:57
cis-1,2-Dichloroethene	50.0	49.0		ug/kg	98%	77 - 132	9033307	03/20/09 11:57
1,1-Dichloroethene	50.0	47.3		ug/kg	95%	75 - 133	9033307	03/20/09 11:57
trans-1,2-Dichloroethene	50.0	45.7		ug/kg	91%	79 - 133	9033307	03/20/09 11:57
1,3-Dichloropropane	50.0	52.1		ug/kg	104%	80 - 125	9033307	03/20/09 11:57
1,2-Dichloropropane	50.0	49.9		ug/kg	100%	75 - 124	9033307	03/20/09 11:57
2,2-Dichloropropane	50.0	50.0		ug/kg	100%	59 - 144	9033307	03/20/09 11:57
cis-1,3-Dichloropropene	50.0	49.4		ug/kg	99%	80 - 137	9033307	03/20/09 11:57
trans-1,3-Dichloropropene	50.0	50.1		ug/kg	100%	75 - 133	9033307	03/20/09 11:57
1,1-Dichloropropene	50.0	50.6		ug/kg	101%	76 - 133	9033307	03/20/09 11:57
Ethylbenzene	50.0	50.0		ug/kg	100%	80 - 128	9033307	03/20/09 11:57
Hexachlorobutadiene	50.0	55.7		ug/kg	111%	60 - 150	9033307	03/20/09 11:57
2-Hexanone	250	281		ug/kg	112%	63 - 149	9033307	03/20/09 11:57
Isopropylbenzene	50.0	54.0		ug/kg	108%	74 - 131	9033307	03/20/09 11:57
p-Isopropyltoluene	50.0	52.0		ug/kg	104%	75 - 133	9033307	03/20/09 11:57
Methyl tert-Butyl Ether	50.0	46.1		ug/kg	92%	67 - 130	9033307	03/20/09 11:57
Methylene Chloride	50.0	59.3		ug/kg	119%	65 - 144	9033307	03/20/09 11:57
4-Methyl-2-pentanone	250	266		ug/kg	106%	64 - 142	9033307	03/20/09 11:57
Naphthalene	50.0	51.3		ug/kg	103%	63 - 144	9033307	03/20/09 11:57
n-Propylbenzene	50.0	52.3		ug/kg	105%	80 - 131	9033307	03/20/09 11:57
Styrene	50.0	56.0		ug/kg	112%	80 - 144	9033307	03/20/09 11:57
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/kg	104%	80 - 129	9033307	03/20/09 11:57
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/kg	102%	73 - 139	9033307	03/20/09 11:57
Tetrachloroethene	50.0	52.4		ug/kg	105%	76 - 128	9033307	03/20/09 11:57
Toluene	50.0	48.7		ug/kg	97%	80 - 125	9033307	03/20/09 11:57
1,2,3-Trichlorobenzene	50.0	57.7		ug/kg	115%	64 - 136	9033307	03/20/09 11:57
1,2,4-Trichlorobenzene	50.0	57.4		ug/kg	115%	58 - 145	9033307	03/20/09 11:57
1,1,2-Trichloroethane	50.0	52.9		ug/kg	106%	80 - 127	9033307	03/20/09 11:57
1,1,1-Trichloroethane	50.0	49.0		ug/kg	98%	76 - 134	9033307	03/20/09 11:57
Trichloroethene	50.0	54.3		ug/kg	109%	75 - 131	9033307	03/20/09 11:57
Trichlorofluoromethane	50.0	40.1		ug/kg	80%	63 - 130	9033307	03/20/09 11:57
1,2,3-Trichloropropane	50.0	48.6		ug/kg	97%	66 - 129	9033307	03/20/09 11:57
1,3,5-Trimethylbenzene	50.0	51.3		ug/kg	103%	78 - 133	9033307	03/20/09 11:57
1,2,4-Trimethylbenzene	50.0	48.8		ug/kg	98%	76 - 135	9033307	03/20/09 11:57
Vinyl chloride	50.0	41.0		ug/kg	82%	58 - 134	9033307	03/20/09 11:57

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9033307-BS1								
Xylenes, total	150	142		ug/kg	95%	79 - 130	9033307	03/20/09 11:57
1,1,2-Trifluorotrichloroethane	50.0	49.3		ug/kg	99%	73 - 126	9033307	03/20/09 11:57
Surrogate: 1,2-Dichloroethane-d4	25.0	23.4			94%	41 - 150	9033307	03/20/09 11:57
Surrogate: Dibromofluoromethane	25.0	23.9			95%	55 - 139	9033307	03/20/09 11:57
Surrogate: Toluene-d8	25.0	24.0			96%	57 - 148	9033307	03/20/09 11:57
Surrogate: 4-Bromofluorobenzene	25.0	23.9			96%	58 - 150	9033307	03/20/09 11:57
9033311-BS1								
Acetone	250	214		ug/kg	86%	49 - 150	9033311	03/21/09 02:44
Benzene	50.0	54.9		ug/kg	110%	76 - 130	9033311	03/21/09 02:44
Bromobenzene	50.0	51.7		ug/kg	103%	80 - 128	9033311	03/21/09 02:44
Bromochloromethane	50.0	52.6		ug/kg	105%	70 - 135	9033311	03/21/09 02:44
Bromodichloromethane	50.0	52.7		ug/kg	105%	78 - 135	9033311	03/21/09 02:44
Bromoform	50.0	54.7		ug/kg	109%	67 - 143	9033311	03/21/09 02:44
Bromomethane	50.0	59.4		ug/kg	119%	58 - 150	9033311	03/21/09 02:44
2-Butanone	250	263		ug/kg	105%	61 - 143	9033311	03/21/09 02:44
sec-Butylbenzene	50.0	56.0		ug/kg	112%	80 - 134	9033311	03/21/09 02:44
n-Butylbenzene	50.0	56.6		ug/kg	113%	71 - 141	9033311	03/21/09 02:44
tert-Butylbenzene	50.0	54.5		ug/kg	109%	79 - 132	9033311	03/21/09 02:44
Carbon disulfide	50.0	60.6		ug/kg	121%	70 - 134	9033311	03/21/09 02:44
Carbon Tetrachloride	50.0	52.0		ug/kg	104%	75 - 137	9033311	03/21/09 02:44
Chlorobenzene	50.0	53.8		ug/kg	108%	80 - 121	9033311	03/21/09 02:44
Chlorodibromomethane	50.0	53.2		ug/kg	106%	77 - 130	9033311	03/21/09 02:44
Chloroethane	50.0	49.3		ug/kg	99%	62 - 149	9033311	03/21/09 02:44
Chloroform	50.0	52.8		ug/kg	106%	75 - 130	9033311	03/21/09 02:44
Chloromethane	50.0	45.5		ug/kg	91%	35 - 130	9033311	03/21/09 02:44
2-Chlorotoluene	50.0	52.2		ug/kg	104%	80 - 131	9033311	03/21/09 02:44
4-Chlorotoluene	50.0	51.4		ug/kg	103%	80 - 129	9033311	03/21/09 02:44
1,2-Dibromo-3-chloropropane	50.0	55.6		ug/kg	111%	62 - 142	9033311	03/21/09 02:44
1,2-Dibromoethane (EDB)	50.0	54.4		ug/kg	109%	81 - 130	9033311	03/21/09 02:44
Dibromomethane	50.0	52.3		ug/kg	105%	77 - 133	9033311	03/21/09 02:44
1,4-Dichlorobenzene	50.0	51.9		ug/kg	104%	75 - 128	9033311	03/21/09 02:44
1,3-Dichlorobenzene	50.0	52.9		ug/kg	106%	79 - 128	9033311	03/21/09 02:44
1,2-Dichlorobenzene	50.0	55.6		ug/kg	111%	80 - 130	9033311	03/21/09 02:44
Dichlorodifluoromethane	50.0	41.9		ug/kg	84%	11 - 129	9033311	03/21/09 02:44
1,1-Dichloroethane	50.0	48.7		ug/kg	97%	68 - 150	9033311	03/21/09 02:44
1,2-Dichloroethane	50.0	50.1		ug/kg	100%	72 - 132	9033311	03/21/09 02:44
cis-1,2-Dichloroethene	50.0	48.2		ug/kg	96%	77 - 132	9033311	03/21/09 02:44
1,1-Dichloroethene	50.0	47.6		ug/kg	95%	75 - 133	9033311	03/21/09 02:44
trans-1,2-Dichloroethene	50.0	48.3		ug/kg	97%	79 - 133	9033311	03/21/09 02:44
1,3-Dichloropropane	50.0	53.8		ug/kg	108%	80 - 125	9033311	03/21/09 02:44

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9033311-BS1								
1,2-Dichloropropane	50.0	52.3		ug/kg	105%	75 - 124	9033311	03/21/09 02:44
2,2-Dichloropropane	50.0	43.0		ug/kg	86%	59 - 144	9033311	03/21/09 02:44
cis-1,3-Dichloropropene	50.0	48.8		ug/kg	98%	80 - 137	9033311	03/21/09 02:44
trans-1,3-Dichloropropene	50.0	49.0		ug/kg	98%	75 - 133	9033311	03/21/09 02:44
1,1-Dichloropropene	50.0	53.6		ug/kg	107%	76 - 133	9033311	03/21/09 02:44
Ethylbenzene	50.0	52.4		ug/kg	105%	80 - 128	9033311	03/21/09 02:44
Hexachlorobutadiene	50.0	57.2		ug/kg	114%	60 - 150	9033311	03/21/09 02:44
2-Hexanone	250	276		ug/kg	111%	63 - 149	9033311	03/21/09 02:44
Isopropylbenzene	50.0	56.3		ug/kg	113%	74 - 131	9033311	03/21/09 02:44
p-Isopropyltoluene	50.0	54.3		ug/kg	109%	75 - 133	9033311	03/21/09 02:44
Methyl tert-Butyl Ether	50.0	46.6		ug/kg	93%	67 - 130	9033311	03/21/09 02:44
Methylene Chloride	50.0	52.9		ug/kg	106%	65 - 144	9033311	03/21/09 02:44
4-Methyl-2-pentanone	250	270		ug/kg	108%	64 - 142	9033311	03/21/09 02:44
Naphthalene	50.0	52.2		ug/kg	104%	63 - 144	9033311	03/21/09 02:44
n-Propylbenzene	50.0	54.6		ug/kg	109%	80 - 131	9033311	03/21/09 02:44
Styrene	50.0	57.9		ug/kg	116%	80 - 144	9033311	03/21/09 02:44
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/kg	108%	80 - 129	9033311	03/21/09 02:44
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/kg	106%	73 - 139	9033311	03/21/09 02:44
Tetrachloroethene	50.0	54.2		ug/kg	108%	76 - 128	9033311	03/21/09 02:44
Toluene	50.0	50.6		ug/kg	101%	80 - 125	9033311	03/21/09 02:44
1,2,3-Trichlorobenzene	50.0	58.4		ug/kg	117%	64 - 136	9033311	03/21/09 02:44
1,2,4-Trichlorobenzene	50.0	58.6		ug/kg	117%	58 - 145	9033311	03/21/09 02:44
1,1,2-Trichloroethane	50.0	54.5		ug/kg	109%	80 - 127	9033311	03/21/09 02:44
1,1,1-Trichloroethane	50.0	51.8		ug/kg	104%	76 - 134	9033311	03/21/09 02:44
Trichloroethene	50.0	57.0		ug/kg	114%	75 - 131	9033311	03/21/09 02:44
Trichlorofluoromethane	50.0	42.7		ug/kg	85%	63 - 130	9033311	03/21/09 02:44
1,2,3-Trichloropropane	50.0	49.4		ug/kg	99%	66 - 129	9033311	03/21/09 02:44
1,3,5-Trimethylbenzene	50.0	53.7		ug/kg	107%	78 - 133	9033311	03/21/09 02:44
1,2,4-Trimethylbenzene	50.0	51.0		ug/kg	102%	76 - 135	9033311	03/21/09 02:44
Vinyl chloride	50.0	43.2		ug/kg	86%	58 - 134	9033311	03/21/09 02:44
Xylenes, total	150	147		ug/kg	98%	79 - 130	9033311	03/21/09 02:44
Surrogate: 1,2-Dichloroethane-d4	25.0	23.1			92%	41 - 150	9033311	03/21/09 02:44
Surrogate: Dibromofluoromethane	25.0	23.8			95%	55 - 139	9033311	03/21/09 02:44
Surrogate: Toluene-d8	25.0	24.2			97%	57 - 148	9033311	03/21/09 02:44
Surrogate: 4-Bromofluorobenzene	25.0	24.0			96%	58 - 150	9033311	03/21/09 02:44

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9031847-BSD1												
Acetone		236		ug/kg	250	94%	49 - 150	7	45	9031847		03/19/09 11:40
Benzene		55.0		ug/kg	50.0	110%	76 - 130	3	43	9031847		03/19/09 11:40
Bromobenzene		53.4		ug/kg	50.0	107%	80 - 128	3	50	9031847		03/19/09 11:40
Bromochloromethane		54.1		ug/kg	50.0	108%	70 - 135	0.6	32	9031847		03/19/09 11:40
Bromodichloromethane		52.9		ug/kg	50.0	106%	78 - 135	1	37	9031847		03/19/09 11:40
Bromoform		56.3		ug/kg	50.0	113%	67 - 143	3	50	9031847		03/19/09 11:40
Bromomethane		60.1		ug/kg	50.0	120%	58 - 150	3	50	9031847		03/19/09 11:40
2-Butanone		284		ug/kg	250	114%	61 - 143	0.7	43	9031847		03/19/09 11:40
sec-Butylbenzene		56.6		ug/kg	50.0	113%	80 - 134	4	50	9031847		03/19/09 11:40
n-Butylbenzene		57.7		ug/kg	50.0	115%	71 - 141	4	50	9031847		03/19/09 11:40
tert-Butylbenzene		55.4		ug/kg	50.0	111%	79 - 132	4	50	9031847		03/19/09 11:40
Carbon disulfide		56.3		ug/kg	50.0	113%	70 - 134	9	47	9031847		03/19/09 11:40
Carbon Tetrachloride		52.5		ug/kg	50.0	105%	75 - 137	2	44	9031847		03/19/09 11:40
Chlorobenzene		54.5		ug/kg	50.0	109%	80 - 121	3	44	9031847		03/19/09 11:40
Chlorodibromomethane		53.6		ug/kg	50.0	107%	77 - 130	2	45	9031847		03/19/09 11:40
Chloroethane		50.6		ug/kg	50.0	101%	62 - 149	2	50	9031847		03/19/09 11:40
Chloroform		55.4		ug/kg	50.0	111%	75 - 130	3	36	9031847		03/19/09 11:40
Chloromethane		44.6		ug/kg	50.0	89%	35 - 130	3	50	9031847		03/19/09 11:40
2-Chlorotoluene		53.4		ug/kg	50.0	107%	80 - 131	3	50	9031847		03/19/09 11:40
4-Chlorotoluene		52.9		ug/kg	50.0	106%	80 - 129	4	50	9031847		03/19/09 11:40
1,2-Dibromo-3-chloropropane		60.2		ug/kg	50.0	120%	62 - 142	2	50	9031847		03/19/09 11:40
1,2-Dibromoethane (EDB)		54.6		ug/kg	50.0	109%	81 - 130	2	50	9031847		03/19/09 11:40
Dibromomethane		51.8		ug/kg	50.0	104%	77 - 133	2	45	9031847		03/19/09 11:40
1,4-Dichlorobenzene		52.9		ug/kg	50.0	106%	75 - 128	2	50	9031847		03/19/09 11:40
1,3-Dichlorobenzene		54.0		ug/kg	50.0	108%	79 - 128	3	50	9031847		03/19/09 11:40
1,2-Dichlorobenzene		56.8		ug/kg	50.0	114%	80 - 130	3	50	9031847		03/19/09 11:40
Dichlorodifluoromethane		36.3		ug/kg	50.0	73%	11 - 129	4	43	9031847		03/19/09 11:40
1,1-Dichloroethane		51.4		ug/kg	50.0	103%	68 - 150	3	37	9031847		03/19/09 11:40
1,2-Dichloroethane		50.1		ug/kg	50.0	100%	72 - 132	2	44	9031847		03/19/09 11:40
cis-1,2-Dichloroethene		51.4		ug/kg	50.0	103%	77 - 132	3	35	9031847		03/19/09 11:40
1,1-Dichloroethene		50.4		ug/kg	50.0	101%	75 - 133	1	41	9031847		03/19/09 11:40
trans-1,2-Dichloroethene		50.9		ug/kg	50.0	102%	79 - 133	3	37	9031847		03/19/09 11:40
1,3-Dichloropropane		54.1		ug/kg	50.0	108%	80 - 125	2	44	9031847		03/19/09 11:40
1,2-Dichloropropane		52.6		ug/kg	50.0	105%	75 - 124	3	35	9031847		03/19/09 11:40
2,2-Dichloropropane		52.2		ug/kg	50.0	104%	59 - 144	3	33	9031847		03/19/09 11:40
cis-1,3-Dichloropropene		51.2		ug/kg	50.0	102%	80 - 137	2	43	9031847		03/19/09 11:40
trans-1,3-Dichloropropene		52.2		ug/kg	50.0	104%	75 - 133	2	50	9031847		03/19/09 11:40
1,1-Dichloropropene		53.7		ug/kg	50.0	107%	76 - 133	3	41	9031847		03/19/09 11:40
Ethylbenzene		52.7		ug/kg	50.0	105%	80 - 128	3	48	9031847		03/19/09 11:40
Hexachlorobutadiene		60.2		ug/kg	50.0	120%	60 - 150	5	50	9031847		03/19/09 11:40
2-Hexanone		284		ug/kg	250	114%	63 - 149	0.9	50	9031847		03/19/09 11:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9031847-BSD1												
Isopropylbenzene		56.4		ug/kg	50.0	113%	74 - 131	4	50	9031847		03/19/09 11:40
p-Isopropyltoluene		55.2		ug/kg	50.0	110%	75 - 133	3	50	9031847		03/19/09 11:40
Methyl tert-Butyl Ether		51.9		ug/kg	50.0	104%	67 - 130	2	45	9031847		03/19/09 11:40
Methylene Chloride		52.4		ug/kg	50.0	105%	65 - 144	7	39	9031847		03/19/09 11:40
4-Methyl-2-pentanone		274		ug/kg	250	110%	64 - 142	1	50	9031847		03/19/09 11:40
Naphthalene		54.7		ug/kg	50.0	109%	63 - 144	2	50	9031847		03/19/09 11:40
n-Propylbenzene		55.4		ug/kg	50.0	111%	80 - 131	3	50	9031847		03/19/09 11:40
Styrene		58.4		ug/kg	50.0	117%	80 - 144	3	50	9031847		03/19/09 11:40
1,1,1,2-Tetrachloroethane		54.7		ug/kg	50.0	109%	80 - 129	3	43	9031847		03/19/09 11:40
1,1,2,2-Tetrachloroethane		54.1		ug/kg	50.0	108%	73 - 139	2	50	9031847		03/19/09 11:40
Tetrachloroethene		54.5		ug/kg	50.0	109%	76 - 128	4	45	9031847		03/19/09 11:40
Toluene		51.4		ug/kg	50.0	103%	80 - 125	4	44	9031847		03/19/09 11:40
1,2,3-Trichlorobenzene		60.3		ug/kg	50.0	121%	64 - 136	4	50	9031847		03/19/09 11:40
1,2,4-Trichlorobenzene		60.8		ug/kg	50.0	122%	58 - 145	5	50	9031847		03/19/09 11:40
1,1,2-Trichloroethane		54.7		ug/kg	50.0	109%	80 - 127	3	41	9031847		03/19/09 11:40
1,1,1-Trichloroethane		52.7		ug/kg	50.0	105%	76 - 134	2	39	9031847		03/19/09 11:40
Trichloroethene		57.1		ug/kg	50.0	114%	75 - 131	3	40	9031847		03/19/09 11:40
Trichlorofluoromethane		39.2		ug/kg	50.0	78%	63 - 130	3	42	9031847		03/19/09 11:40
1,2,3-Trichloropropane		53.2		ug/kg	50.0	106%	66 - 129	4	50	9031847		03/19/09 11:40
1,3,5-Trimethylbenzene		54.7		ug/kg	50.0	109%	78 - 133	3	50	9031847		03/19/09 11:40
1,2,4-Trimethylbenzene		52.4		ug/kg	50.0	105%	76 - 135	3	50	9031847		03/19/09 11:40
Vinyl chloride		45.0		ug/kg	50.0	90%	58 - 134	4	41	9031847		03/19/09 11:40
Xylenes, total		147		ug/kg	150	98%	79 - 130	3	48	9031847		03/19/09 11:40
Surrogate: 1,2-Dichloroethane-d4		23.0		ug/kg	25.0	92%	41 - 150			9031847		03/19/09 11:40
Surrogate: Dibromofluoromethane		23.8		ug/kg	25.0	95%	55 - 139			9031847		03/19/09 11:40
Surrogate: Toluene-d8		24.2		ug/kg	25.0	97%	57 - 148			9031847		03/19/09 11:40
Surrogate: 4-Bromofluorobenzene		24.6		ug/kg	25.0	98%	58 - 150			9031847		03/19/09 11:40
9031856-BSD1												
Acetone		288		ug/L	250	115%	62 - 150	3	29	9031856		03/17/09 12:05
Benzene		54.0		ug/L	50.0	108%	80 - 137	0.6	23	9031856		03/17/09 12:05
Bromobenzene		47.0		ug/L	50.0	94%	74 - 131	4	18	9031856		03/17/09 12:05
Bromochloromethane		56.5		ug/L	50.0	113%	80 - 128	1	18	9031856		03/17/09 12:05
Bromodichloromethane		58.2		ug/L	50.0	116%	80 - 129	0.6	18	9031856		03/17/09 12:05
Bromoform		46.7		ug/L	50.0	93%	69 - 127	1	24	9031856		03/17/09 12:05
Bromomethane		50.5		ug/L	50.0	101%	62 - 148	3	45	9031856		03/17/09 12:05
2-Butanone		281		ug/L	250	112%	77 - 141	1	36	9031856		03/17/09 12:05
sec-Butylbenzene		50.1		ug/L	50.0	100%	78 - 133	2	17	9031856		03/17/09 12:05
n-Butylbenzene		49.7		ug/L	50.0	99%	72 - 136	2	18	9031856		03/17/09 12:05
tert-Butylbenzene		51.3		ug/L	50.0	103%	77 - 135	2	17	9031856		03/17/09 12:05
Carbon disulfide		58.8		ug/L	50.0	118%	80 - 126	4	16	9031856		03/17/09 12:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9031856-BSD1												
Carbon Tetrachloride		58.4		ug/L	50.0	117%	76 - 143	2	29	9031856		03/17/09 12:05
Chlorobenzene		48.0		ug/L	50.0	96%	80 - 120	0.4	27	9031856		03/17/09 12:05
Chlorodibromomethane		55.1		ug/L	50.0	110%	76 - 123	2	21	9031856		03/17/09 12:05
Chloroethane		50.7		ug/L	50.0	101%	77 - 127	3	32	9031856		03/17/09 12:05
Chloroform		54.6		ug/L	50.0	109%	80 - 133	0.7	28	9031856		03/17/09 12:05
Chloromethane		44.8		ug/L	50.0	90%	33 - 125	3	21	9031856		03/17/09 12:05
2-Chlorotoluene		48.0		ug/L	50.0	96%	80 - 127	1	16	9031856		03/17/09 12:05
4-Chlorotoluene		46.9		ug/L	50.0	94%	80 - 127	1	17	9031856		03/17/09 12:05
1,2-Dibromo-3-chloropropane		50.2		ug/L	50.0	100%	60 - 136	1	29	9031856		03/17/09 12:05
1,2-Dibromoethane (EDB)		50.9		ug/L	50.0	102%	80 - 125	0.4	21	9031856		03/17/09 12:05
Dibromomethane		54.6		ug/L	50.0	109%	80 - 124	0.07	20	9031856		03/17/09 12:05
1,4-Dichlorobenzene		45.3		ug/L	50.0	91%	80 - 120	4	19	9031856		03/17/09 12:05
1,3-Dichlorobenzene		48.2		ug/L	50.0	96%	80 - 123	2	18	9031856		03/17/09 12:05
1,2-Dichlorobenzene		47.8		ug/L	50.0	96%	80 - 122	3	23	9031856		03/17/09 12:05
Dichlorodifluoromethane		36.1		ug/L	50.0	72%	36 - 120	2	14	9031856		03/17/09 12:05
1,1-Dichloroethane		55.8		ug/L	50.0	112%	76 - 130	3	15	9031856		03/17/09 12:05
1,2-Dichloroethane		52.4		ug/L	50.0	105%	69 - 136	0.06	26	9031856		03/17/09 12:05
cis-1,2-Dichloroethene		55.9		ug/L	50.0	112%	80 - 129	1	14	9031856		03/17/09 12:05
1,1-Dichloroethene		56.2		ug/L	50.0	112%	80 - 127	3	26	9031856		03/17/09 12:05
trans-1,2-Dichloroethene		55.6		ug/L	50.0	111%	80 - 131	1	14	9031856		03/17/09 12:05
1,3-Dichloropropane		47.5		ug/L	50.0	95%	80 - 122	2	21	9031856		03/17/09 12:05
1,2-Dichloropropane		52.9		ug/L	50.0	106%	80 - 120	2	16	9031856		03/17/09 12:05
2,2-Dichloropropane		59.2		ug/L	50.0	118%	62 - 142	2	14	9031856		03/17/09 12:05
cis-1,3-Dichloropropene		53.2		ug/L	50.0	106%	76 - 135	1	19	9031856		03/17/09 12:05
trans-1,3-Dichloropropene		54.5		ug/L	50.0	109%	70 - 137	0.8	20	9031856		03/17/09 12:05
1,1-Dichloropropene		54.1		ug/L	50.0	108%	80 - 127	1	14	9031856		03/17/09 12:05
Ethylbenzene		50.2		ug/L	50.0	100%	80 - 128	1	17	9031856		03/17/09 12:05
Hexachlorobutadiene		51.9		ug/L	50.0	104%	68 - 148	2	34	9031856		03/17/09 12:05
2-Hexanone		264		ug/L	250	105%	69 - 148	2	34	9031856		03/17/09 12:05
Isopropylbenzene		54.7		ug/L	50.0	109%	80 - 121	0.7	18	9031856		03/17/09 12:05
p-Isopropyltoluene		49.5		ug/L	50.0	99%	79 - 127	2	17	9031856		03/17/09 12:05
Methyl tert-Butyl Ether		57.7		ug/L	50.0	115%	70 - 129	0.7	32	9031856		03/17/09 12:05
Methylene Chloride		55.6		ug/L	50.0	111%	76 - 135	2	18	9031856		03/17/09 12:05
4-Methyl-2-pentanone		250		ug/L	250	100%	67 - 143	2	31	9031856		03/17/09 12:05
Naphthalene		57.2		ug/L	50.0	114%	62 - 141	5	39	9031856		03/17/09 12:05
n-Propylbenzene		48.0		ug/L	50.0	96%	80 - 132	3	17	9031856		03/17/09 12:05
Styrene		56.4		ug/L	50.0	113%	80 - 139	0.4	16	9031856		03/17/09 12:05
1,1,1,2-Tetrachloroethane		54.1		ug/L	50.0	108%	80 - 135	2	17	9031856		03/17/09 12:05
1,1,2,2-Tetrachloroethane		48.7		ug/L	50.0	97%	65 - 145	4	28	9031856		03/17/09 12:05
Tetrachloroethene		50.3		ug/L	50.0	101%	80 - 125	1	27	9031856		03/17/09 12:05
Toluene		48.4		ug/L	50.0	97%	80 - 125	1	19	9031856		03/17/09 12:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9031856-BSD1												
1,2,3-Trichlorobenzene		51.2		ug/L	50.0	102%	57 - 144	4	31	9031856		03/17/09 12:05
1,2,4-Trichlorobenzene		52.7		ug/L	50.0	105%	60 - 140	2	26	9031856		03/17/09 12:05
1,1,2-Trichloroethane		48.9		ug/L	50.0	98%	80 - 122	2	21	9031856		03/17/09 12:05
1,1,1-Trichloroethane		54.4		ug/L	50.0	109%	80 - 131	0.7	16	9031856		03/17/09 12:05
Trichloroethene		55.4		ug/L	50.0	111%	80 - 131	0.9	28	9031856		03/17/09 12:05
Trichlorofluoromethane		43.7		ug/L	50.0	87%	68 - 125	3	20	9031856		03/17/09 12:05
1,2,3-Trichloropropane		47.1		ug/L	50.0	94%	60 - 127	3	26	9031856		03/17/09 12:05
1,3,5-Trimethylbenzene		49.6		ug/L	50.0	99%	80 - 129	2	16	9031856		03/17/09 12:05
1,2,4-Trimethylbenzene		48.8		ug/L	50.0	98%	80 - 128	2	22	9031856		03/17/09 12:05
Vinyl chloride		48.5		ug/L	50.0	97%	69 - 120	3	26	9031856		03/17/09 12:05
Xylenes, total		151		ug/L	150	100%	80 - 129	0.01	18	9031856		03/17/09 12:05
Surrogate: 1,2-Dichloroethane-d4		29.0		ug/L	30.0	97%	60 - 140			9031856		03/17/09 12:05
Surrogate: Dibromofluoromethane		30.8		ug/L	30.0	103%	75 - 124			9031856		03/17/09 12:05
Surrogate: Toluene-d8		28.5		ug/L	30.0	95%	78 - 121			9031856		03/17/09 12:05
Surrogate: 4-Bromofluorobenzene		29.3		ug/L	30.0	98%	79 - 124			9031856		03/17/09 12:05
9033307-BSD1												
Acetone		250		ug/kg	250	100%	49 - 150	4	45	9033307		03/20/09 12:24
Benzene		53.5		ug/kg	50.0	107%	76 - 130	2	43	9033307		03/20/09 12:24
Bromobenzene		51.1		ug/kg	50.0	102%	80 - 128	4	50	9033307		03/20/09 12:24
Bromochloromethane		57.6		ug/kg	50.0	115%	70 - 135	1	32	9033307		03/20/09 12:24
Bromodichloromethane		51.7		ug/kg	50.0	103%	78 - 135	2	37	9033307		03/20/09 12:24
Bromoform		54.5		ug/kg	50.0	109%	67 - 143	2	50	9033307		03/20/09 12:24
Bromomethane		57.8		ug/kg	50.0	116%	58 - 150	3	50	9033307		03/20/09 12:24
2-Butanone		289		ug/kg	250	115%	61 - 143	1	43	9033307		03/20/09 12:24
sec-Butylbenzene		55.2		ug/kg	50.0	110%	80 - 134	3	50	9033307		03/20/09 12:24
n-Butylbenzene		57.6		ug/kg	50.0	115%	71 - 141	5	50	9033307		03/20/09 12:24
tert-Butylbenzene		53.7		ug/kg	50.0	107%	79 - 132	2	50	9033307		03/20/09 12:24
Carbon disulfide		63.0		ug/kg	50.0	126%	70 - 134	2	47	9033307		03/20/09 12:24
Carbon Tetrachloride		50.1		ug/kg	50.0	100%	75 - 137	2	44	9033307		03/20/09 12:24
Chlorobenzene		52.8		ug/kg	50.0	106%	80 - 121	2	44	9033307		03/20/09 12:24
Chlorodibromomethane		52.2		ug/kg	50.0	104%	77 - 130	1	45	9033307		03/20/09 12:24
Chloroethane		48.8		ug/kg	50.0	98%	62 - 149	0.9	50	9033307		03/20/09 12:24
Chloroform		54.0		ug/kg	50.0	108%	75 - 130	2	36	9033307		03/20/09 12:24
Chloromethane		44.5		ug/kg	50.0	89%	35 - 130	3	50	9033307		03/20/09 12:24
2-Chlorotoluene		51.6		ug/kg	50.0	103%	80 - 131	3	50	9033307		03/20/09 12:24
4-Chlorotoluene		50.9		ug/kg	50.0	102%	80 - 129	3	50	9033307		03/20/09 12:24
1,2-Dibromo-3-chloropropane		56.7		ug/kg	50.0	113%	62 - 142	4	50	9033307		03/20/09 12:24
1,2-Dibromoethane (EDB)		54.1		ug/kg	50.0	108%	81 - 130	2	50	9033307		03/20/09 12:24
Dibromomethane		51.3		ug/kg	50.0	103%	77 - 133	0.9	45	9033307		03/20/09 12:24
1,4-Dichlorobenzene		51.9		ug/kg	50.0	104%	75 - 128	3	50	9033307		03/20/09 12:24

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033307-BSD1												
1,3-Dichlorobenzene		52.8		ug/kg	50.0	106%	79 - 128	3	50	9033307		03/20/09 12:24
1,2-Dichlorobenzene		55.8		ug/kg	50.0	112%	80 - 130	3	50	9033307		03/20/09 12:24
Dichlorodifluoromethane		39.7		ug/kg	50.0	79%	11 - 129	2	43	9033307		03/20/09 12:24
1,1-Dichloroethane		47.4		ug/kg	50.0	95%	68 - 150	2	37	9033307		03/20/09 12:24
1,2-Dichloroethane		49.0		ug/kg	50.0	98%	72 - 132	1	44	9033307		03/20/09 12:24
cis-1,2-Dichloroethene		49.8		ug/kg	50.0	100%	77 - 132	2	35	9033307		03/20/09 12:24
1,1-Dichloroethene		47.9		ug/kg	50.0	96%	75 - 133	1	41	9033307		03/20/09 12:24
trans-1,2-Dichloroethene		46.7		ug/kg	50.0	93%	79 - 133	2	37	9033307		03/20/09 12:24
1,3-Dichloropropane		53.1		ug/kg	50.0	106%	80 - 125	2	44	9033307		03/20/09 12:24
1,2-Dichloropropane		50.8		ug/kg	50.0	102%	75 - 124	2	35	9033307		03/20/09 12:24
2,2-Dichloropropane		50.6		ug/kg	50.0	101%	59 - 144	1	33	9033307		03/20/09 12:24
cis-1,3-Dichloropropene		50.6		ug/kg	50.0	101%	80 - 137	2	43	9033307		03/20/09 12:24
trans-1,3-Dichloropropene		51.6		ug/kg	50.0	103%	75 - 133	3	50	9033307		03/20/09 12:24
1,1-Dichloropropene		51.7		ug/kg	50.0	103%	76 - 133	2	41	9033307		03/20/09 12:24
Ethylbenzene		51.4		ug/kg	50.0	103%	80 - 128	3	48	9033307		03/20/09 12:24
Hexachlorobutadiene		58.6		ug/kg	50.0	117%	60 - 150	5	50	9033307		03/20/09 12:24
2-Hexanone		283		ug/kg	250	113%	63 - 149	0.8	50	9033307		03/20/09 12:24
Isopropylbenzene		55.1		ug/kg	50.0	110%	74 - 131	2	50	9033307		03/20/09 12:24
p-Isopropyltoluene		53.9		ug/kg	50.0	108%	75 - 133	3	50	9033307		03/20/09 12:24
Methyl tert-Butyl Ether		47.2		ug/kg	50.0	94%	67 - 130	2	45	9033307		03/20/09 12:24
Methylene Chloride		60.4		ug/kg	50.0	121%	65 - 144	2	39	9033307		03/20/09 12:24
4-Methyl-2-pentanone		271		ug/kg	250	108%	64 - 142	2	50	9033307		03/20/09 12:24
Naphthalene		54.3		ug/kg	50.0	109%	63 - 144	6	50	9033307		03/20/09 12:24
n-Propylbenzene		54.2		ug/kg	50.0	108%	80 - 131	3	50	9033307		03/20/09 12:24
Styrene		57.1		ug/kg	50.0	114%	80 - 144	2	50	9033307		03/20/09 12:24
1,1,1,2-Tetrachloroethane		53.0		ug/kg	50.0	106%	80 - 129	2	43	9033307		03/20/09 12:24
1,1,2,2-Tetrachloroethane		53.1		ug/kg	50.0	106%	73 - 139	4	50	9033307		03/20/09 12:24
Tetrachloroethene		53.7		ug/kg	50.0	107%	76 - 128	3	45	9033307		03/20/09 12:24
Toluene		49.8		ug/kg	50.0	100%	80 - 125	2	44	9033307		03/20/09 12:24
1,2,3-Trichlorobenzene		60.2		ug/kg	50.0	120%	64 - 136	4	50	9033307		03/20/09 12:24
1,2,4-Trichlorobenzene		60.5		ug/kg	50.0	121%	58 - 145	5	50	9033307		03/20/09 12:24
1,1,2-Trichloroethane		54.2		ug/kg	50.0	108%	80 - 127	2	41	9033307		03/20/09 12:24
1,1,1-Trichloroethane		50.0		ug/kg	50.0	100%	76 - 134	2	39	9033307		03/20/09 12:24
Trichloroethene		55.9		ug/kg	50.0	112%	75 - 131	3	40	9033307		03/20/09 12:24
Trichlorofluoromethane		40.7		ug/kg	50.0	81%	63 - 130	2	42	9033307		03/20/09 12:24
1,2,3-Trichloropropane		50.0		ug/kg	50.0	100%	66 - 129	3	50	9033307		03/20/09 12:24
1,3,5-Trimethylbenzene		53.4		ug/kg	50.0	107%	78 - 133	4	50	9033307		03/20/09 12:24
1,2,4-Trimethylbenzene		50.7		ug/kg	50.0	101%	76 - 135	4	50	9033307		03/20/09 12:24
Vinyl chloride		42.0		ug/kg	50.0	84%	58 - 134	3	41	9033307		03/20/09 12:24
Xylenes, total		144		ug/kg	150	96%	79 - 130	1	48	9033307		03/20/09 12:24
Surrogate: 1,2-Dichloroethane-d4		23.1		ug/kg	25.0	93%	41 - 150			9033307		03/20/09 12:24

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033307-BSD1												
Surrogate: Dibromofluoromethane		24.0		ug/kg	25.0	96%	55 - 139			9033307		03/20/09 12:24
Surrogate: Toluene-d8		24.1		ug/kg	25.0	97%	57 - 148			9033307		03/20/09 12:24
Surrogate: 4-Bromofluorobenzene		24.1		ug/kg	25.0	97%	58 - 150			9033307		03/20/09 12:24
9033311-BSD1												
Acetone		218		ug/kg	250	87%	49 - 150	2	45	9033311		03/21/09 03:10
Benzene		54.6		ug/kg	50.0	109%	76 - 130	0.5	43	9033311		03/21/09 03:10
Bromobenzene		51.1		ug/kg	50.0	102%	80 - 128	1	50	9033311		03/21/09 03:10
Bromochloromethane		57.1		ug/kg	50.0	114%	70 - 135	8	32	9033311		03/21/09 03:10
Bromodichloromethane		52.0		ug/kg	50.0	104%	78 - 135	1	37	9033311		03/21/09 03:10
Bromoform		53.9		ug/kg	50.0	108%	67 - 143	1	50	9033311		03/21/09 03:10
Bromomethane		59.3		ug/kg	50.0	119%	58 - 150	0.2	50	9033311		03/21/09 03:10
2-Butanone		280		ug/kg	250	112%	61 - 143	6	43	9033311		03/21/09 03:10
sec-Butylbenzene		55.9		ug/kg	50.0	112%	80 - 134	0.2	50	9033311		03/21/09 03:10
n-Butylbenzene		56.5		ug/kg	50.0	113%	71 - 141	0.2	50	9033311		03/21/09 03:10
tert-Butylbenzene		54.6		ug/kg	50.0	109%	79 - 132	0.2	50	9033311		03/21/09 03:10
Carbon disulfide		60.9		ug/kg	50.0	122%	70 - 134	0.6	47	9033311		03/21/09 03:10
Carbon Tetrachloride		51.8		ug/kg	50.0	104%	75 - 137	0.4	44	9033311		03/21/09 03:10
Chlorobenzene		53.4		ug/kg	50.0	107%	80 - 121	0.7	44	9033311		03/21/09 03:10
Chlorodibromomethane		52.5		ug/kg	50.0	105%	77 - 130	1	45	9033311		03/21/09 03:10
Chloroethane		49.8		ug/kg	50.0	100%	62 - 149	1	50	9033311		03/21/09 03:10
Chloroform		55.3		ug/kg	50.0	111%	75 - 130	5	36	9033311		03/21/09 03:10
Chloromethane		45.6		ug/kg	50.0	91%	35 - 130	0.04	50	9033311		03/21/09 03:10
2-Chlorotoluene		52.2		ug/kg	50.0	104%	80 - 131	0.2	50	9033311		03/21/09 03:10
4-Chlorotoluene		51.2		ug/kg	50.0	102%	80 - 129	0.5	50	9033311		03/21/09 03:10
1,2-Dibromo-3-chloropropane		54.8		ug/kg	50.0	110%	62 - 142	1	50	9033311		03/21/09 03:10
1,2-Dibromoethane (EDB)		53.5		ug/kg	50.0	107%	81 - 130	2	50	9033311		03/21/09 03:10
Dibromomethane		51.3		ug/kg	50.0	103%	77 - 133	2	45	9033311		03/21/09 03:10
1,4-Dichlorobenzene		51.8		ug/kg	50.0	104%	75 - 128	0.3	50	9033311		03/21/09 03:10
1,3-Dichlorobenzene		52.7		ug/kg	50.0	105%	79 - 128	0.5	50	9033311		03/21/09 03:10
1,2-Dichlorobenzene		55.6		ug/kg	50.0	111%	80 - 130	0.02	50	9033311		03/21/09 03:10
Dichlorodifluoromethane		41.7		ug/kg	50.0	83%	11 - 129	0.4	43	9033311		03/21/09 03:10
1,1-Dichloroethane		48.3		ug/kg	50.0	97%	68 - 150	0.7	37	9033311		03/21/09 03:10
1,2-Dichloroethane		49.6		ug/kg	50.0	99%	72 - 132	1	44	9033311		03/21/09 03:10
cis-1,2-Dichloroethene		50.4		ug/kg	50.0	101%	77 - 132	4	35	9033311		03/21/09 03:10
1,1-Dichloroethene		49.5		ug/kg	50.0	99%	75 - 133	4	41	9033311		03/21/09 03:10
trans-1,2-Dichloroethene		48.2		ug/kg	50.0	96%	79 - 133	0.1	37	9033311		03/21/09 03:10
1,3-Dichloropropane		53.0		ug/kg	50.0	106%	80 - 125	2	44	9033311		03/21/09 03:10
1,2-Dichloropropane		51.7		ug/kg	50.0	103%	75 - 124	1	35	9033311		03/21/09 03:10
2,2-Dichloropropane		44.1		ug/kg	50.0	88%	59 - 144	2	33	9033311		03/21/09 03:10
cis-1,3-Dichloropropene		48.6		ug/kg	50.0	97%	80 - 137	0.4	43	9033311		03/21/09 03:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033311-BSD1												
trans-1,3-Dichloropropene		49.3		ug/kg	50.0	99%	75 - 133	0.5	50	9033311		03/21/09 03:10
1,1-Dichloropropene		53.5		ug/kg	50.0	107%	76 - 133	0.1	41	9033311		03/21/09 03:10
Ethylbenzene		51.8		ug/kg	50.0	104%	80 - 128	1	48	9033311		03/21/09 03:10
Hexachlorobutadiene		58.2		ug/kg	50.0	116%	60 - 150	2	50	9033311		03/21/09 03:10
2-Hexanone		275		ug/kg	250	110%	63 - 149	0.7	50	9033311		03/21/09 03:10
Isopropylbenzene		55.8		ug/kg	50.0	112%	74 - 131	0.8	50	9033311		03/21/09 03:10
p-Isopropyltoluene		54.5		ug/kg	50.0	109%	75 - 133	0.4	50	9033311		03/21/09 03:10
Methyl tert-Butyl Ether		46.5		ug/kg	50.0	93%	67 - 130	0.2	45	9033311		03/21/09 03:10
Methylene Chloride		53.0		ug/kg	50.0	106%	65 - 144	0.3	39	9033311		03/21/09 03:10
4-Methyl-2-pentanone		267		ug/kg	250	107%	64 - 142	1	50	9033311		03/21/09 03:10
Naphthalene		52.4		ug/kg	50.0	105%	63 - 144	0.2	50	9033311		03/21/09 03:10
n-Propylbenzene		54.5		ug/kg	50.0	109%	80 - 131	0.2	50	9033311		03/21/09 03:10
Styrene		57.6		ug/kg	50.0	115%	80 - 144	0.6	50	9033311		03/21/09 03:10
1,1,1,2-Tetrachloroethane		53.4		ug/kg	50.0	107%	80 - 129	1	43	9033311		03/21/09 03:10
1,1,2,2-Tetrachloroethane		52.5		ug/kg	50.0	105%	73 - 139	0.7	50	9033311		03/21/09 03:10
Tetrachloroethene		54.4		ug/kg	50.0	109%	76 - 128	0.3	45	9033311		03/21/09 03:10
Toluene		50.7		ug/kg	50.0	101%	80 - 125	0.2	44	9033311		03/21/09 03:10
1,2,3-Trichlorobenzene		58.8		ug/kg	50.0	118%	64 - 136	0.7	50	9033311		03/21/09 03:10
1,2,4-Trichlorobenzene		58.9		ug/kg	50.0	118%	58 - 145	0.6	50	9033311		03/21/09 03:10
1,1,2-Trichloroethane		53.8		ug/kg	50.0	108%	80 - 127	1	41	9033311		03/21/09 03:10
1,1,1-Trichloroethane		51.5		ug/kg	50.0	103%	76 - 134	0.6	39	9033311		03/21/09 03:10
Trichloroethene		56.6		ug/kg	50.0	113%	75 - 131	0.8	40	9033311		03/21/09 03:10
Trichlorofluoromethane		42.9		ug/kg	50.0	86%	63 - 130	0.3	42	9033311		03/21/09 03:10
1,2,3-Trichloropropane		48.9		ug/kg	50.0	98%	66 - 129	1	50	9033311		03/21/09 03:10
1,3,5-Trimethylbenzene		53.5		ug/kg	50.0	107%	78 - 133	0.3	50	9033311		03/21/09 03:10
1,2,4-Trimethylbenzene		50.8		ug/kg	50.0	102%	76 - 135	0.4	50	9033311		03/21/09 03:10
Vinyl chloride		43.6		ug/kg	50.0	87%	58 - 134	0.8	41	9033311		03/21/09 03:10
Xylenes, total		146		ug/kg	150	97%	79 - 130	0.6	48	9033311		03/21/09 03:10
Surrogate: 1,2-Dichloroethane-d4		23.1		ug/kg	25.0	92%	41 - 150			9033311		03/21/09 03:10
Surrogate: Dibromofluoromethane		23.9		ug/kg	25.0	96%	55 - 139			9033311		03/21/09 03:10
Surrogate: Toluene-d8		24.0		ug/kg	25.0	96%	57 - 148			9033311		03/21/09 03:10
Surrogate: 4-Bromofluorobenzene		24.3		ug/kg	25.0	97%	58 - 150			9033311		03/21/09 03:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9031847-MS1										
Acetone	51.8	68.2		mg/kg	25.0	66%	32 - 163	9031847	NSC1000-01	03/19/09 21:29
Benzene	ND	2.60		mg/kg	5.00	52%	33 - 146	9031847	NSC1000-01	03/19/09 21:29
Bromobenzene	ND	2.33		mg/kg	5.00	47%	10 - 156	9031847	NSC1000-01	03/19/09 21:29
Bromochloromethane	ND	2.91		mg/kg	5.00	58%	43 - 138	9031847	NSC1000-01	03/19/09 21:29
Bromodichloromethane	ND	2.39		mg/kg	5.00	48%	31 - 149	9031847	NSC1000-01	03/19/09 21:29
Bromoform	ND	2.31		mg/kg	5.00	46%	14 - 167	9031847	NSC1000-01	03/19/09 21:29
Bromomethane	ND	0.364	M8	mg/kg	5.00	7%	16 - 172	9031847	NSC1000-01	03/19/09 21:29
2-Butanone	21.8	34.5		mg/kg	25.0	51%	37 - 151	9031847	NSC1000-01	03/19/09 21:29
sec-Butylbenzene	0.0615	2.69		mg/kg	5.00	53%	18 - 165	9031847	NSC1000-01	03/19/09 21:29
n-Butylbenzene	0.0956	2.75		mg/kg	5.00	53%	10 - 168	9031847	NSC1000-01	03/19/09 21:29
tert-Butylbenzene	0.0364	2.60		mg/kg	5.00	51%	17 - 165	9031847	NSC1000-01	03/19/09 21:29
Carbon disulfide	ND	3.12		mg/kg	5.00	62%	34 - 147	9031847	NSC1000-01	03/19/09 21:29
Carbon Tetrachloride	ND	2.68		mg/kg	5.00	54%	33 - 155	9031847	NSC1000-01	03/19/09 21:29
Chlorobenzene	ND	2.41		mg/kg	5.00	48%	23 - 147	9031847	NSC1000-01	03/19/09 21:29
Chlorodibromomethane	ND	2.26		mg/kg	5.00	45%	21 - 155	9031847	NSC1000-01	03/19/09 21:29
Chloroethane	ND	0.237	M8	mg/kg	5.00	5%	44 - 155	9031847	NSC1000-01	03/19/09 21:29
Chloroform	ND	2.87		mg/kg	5.00	57%	39 - 140	9031847	NSC1000-01	03/19/09 21:29
Chloromethane	ND	1.51		mg/kg	5.00	30%	14 - 143	9031847	NSC1000-01	03/19/09 21:29
2-Chlorotoluene	0.0337	2.45		mg/kg	5.00	48%	21 - 154	9031847	NSC1000-01	03/19/09 21:29
4-Chlorotoluene	ND	2.38		mg/kg	5.00	48%	10 - 156	9031847	NSC1000-01	03/19/09 21:29
1,2-Dibromo-3-chloropropane	ND	2.44		mg/kg	5.00	49%	10 - 159	9031847	NSC1000-01	03/19/09 21:29
1,2-Dibromoethane (EDB)	ND	2.39		mg/kg	5.00	48%	19 - 151	9031847	NSC1000-01	03/19/09 21:29
Dibromomethane	ND	2.48		mg/kg	5.00	50%	32 - 147	9031847	NSC1000-01	03/19/09 21:29
1,4-Dichlorobenzene	0.0323	2.40		mg/kg	5.00	47%	10 - 152	9031847	NSC1000-01	03/19/09 21:29
1,3-Dichlorobenzene	0.0310	2.49		mg/kg	5.00	49%	10 - 153	9031847	NSC1000-01	03/19/09 21:29
1,2-Dichlorobenzene	0.0346	2.55		mg/kg	5.00	50%	10 - 155	9031847	NSC1000-01	03/19/09 21:29
Dichlorodifluoromethane	ND	1.06		mg/kg	5.00	21%	10 - 143	9031847	NSC1000-01	03/19/09 21:29
1,1-Dichloroethane	ND	2.59		mg/kg	5.00	52%	49 - 156	9031847	NSC1000-01	03/19/09 21:29
1,2-Dichloroethane	ND	2.50		mg/kg	5.00	50%	27 - 145	9031847	NSC1000-01	03/19/09 21:29
cis-1,2-Dichloroethene	ND	2.65		mg/kg	5.00	53%	39 - 143	9031847	NSC1000-01	03/19/09 21:29
1,1-Dichloroethene	ND	2.18		mg/kg	5.00	44%	42 - 145	9031847	NSC1000-01	03/19/09 21:29
trans-1,2-Dichloroethene	ND	2.73		mg/kg	5.00	55%	41 - 146	9031847	NSC1000-01	03/19/09 21:29
1,3-Dichloropropane	ND	2.40		mg/kg	5.00	48%	30 - 143	9031847	NSC1000-01	03/19/09 21:29
1,2-Dichloropropane	ND	2.39		mg/kg	5.00	48%	37 - 136	9031847	NSC1000-01	03/19/09 21:29
2,2-Dichloropropane	ND	2.64		mg/kg	5.00	53%	30 - 145	9031847	NSC1000-01	03/19/09 21:29
cis-1,3-Dichloropropene	ND	2.36		mg/kg	5.00	47%	29 - 149	9031847	NSC1000-01	03/19/09 21:29
trans-1,3-Dichloropropene	ND	2.17		mg/kg	5.00	43%	17 - 146	9031847	NSC1000-01	03/19/09 21:29

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9031847-MS1										
1,1-Dichloropropene	ND	2.73		mg/kg	5.00	55%	36 - 147	9031847	NSC1000-01	03/19/09 21:29
Ethylbenzene	2.06	4.30		mg/kg	5.00	45%	16 - 160	9031847	NSC1000-01	03/19/09 21:29
Hexachlorobutadiene	0.315	2.86		mg/kg	5.00	51%	10 - 191	9031847	NSC1000-01	03/19/09 21:29
2-Hexanone	ND	11.8		mg/kg	25.0	47%	19 - 154	9031847	NSC1000-01	03/19/09 21:29
Isopropylbenzene	0.0460	2.58		mg/kg	5.00	51%	16 - 156	9031847	NSC1000-01	03/19/09 21:29
p-Isopropyltoluene	0.0587	2.60		mg/kg	5.00	51%	13 - 160	9031847	NSC1000-01	03/19/09 21:29
Methyl tert-Butyl Ether	ND	2.41		mg/kg	5.00	48%	30 - 136	9031847	NSC1000-01	03/19/09 21:29
Methylene Chloride	ND	3.02		mg/kg	5.00	60%	31 - 160	9031847	NSC1000-01	03/19/09 21:29
4-Methyl-2-pentanone	9.23	21.4		mg/kg	25.0	49%	25 - 149	9031847	NSC1000-01	03/19/09 21:29
Naphthalene	0.291	2.21		mg/kg	5.00	38%	10 - 151	9031847	NSC1000-01	03/19/09 21:29
n-Propylbenzene	0.0483	2.62		mg/kg	5.00	51%	17 - 158	9031847	NSC1000-01	03/19/09 21:29
Styrene	ND	2.62		mg/kg	5.00	52%	11 - 168	9031847	NSC1000-01	03/19/09 21:29
1,1,1,2-Tetrachloroethane	ND	2.37		mg/kg	5.00	47%	30 - 147	9031847	NSC1000-01	03/19/09 21:29
1,1,2,2-Tetrachloroethane	ND	2.33		mg/kg	5.00	47%	20 - 155	9031847	NSC1000-01	03/19/09 21:29
Tetrachloroethene	ND	2.66		mg/kg	5.00	53%	27 - 151	9031847	NSC1000-01	03/19/09 21:29
Toluene	27.1	30.3		mg/kg	5.00	65%	30 - 145	9031847	NSC1000-01	03/19/09 21:29
1,2,3-Trichlorobenzene	0.401	2.46		mg/kg	5.00	41%	10 - 158	9031847	NSC1000-01	03/19/09 21:29
1,2,4-Trichlorobenzene	0.234	2.62		mg/kg	5.00	48%	10 - 160	9031847	NSC1000-01	03/19/09 21:29
1,1,2-Trichloroethane	ND	2.43		mg/kg	5.00	49%	34 - 140	9031847	NSC1000-01	03/19/09 21:29
1,1,1-Trichloroethane	ND	2.67		mg/kg	5.00	53%	36 - 150	9031847	NSC1000-01	03/19/09 21:29
Trichloroethene	ND	2.83		mg/kg	5.00	57%	33 - 145	9031847	NSC1000-01	03/19/09 21:29
Trichlorofluoromethane	ND	0.364	M8	mg/kg	5.00	7%	31 - 150	9031847	NSC1000-01	03/19/09 21:29
1,2,3-Trichloropropane	ND	2.22		mg/kg	5.00	44%	14 - 143	9031847	NSC1000-01	03/19/09 21:29
1,3,5-Trimethylbenzene	0.0510	2.53		mg/kg	5.00	50%	20 - 158	9031847	NSC1000-01	03/19/09 21:29
1,2,4-Trimethylbenzene	0.0811	2.43		mg/kg	5.00	47%	10 - 166	9031847	NSC1000-01	03/19/09 21:29
Vinyl chloride	ND	1.78		mg/kg	5.00	36%	32 - 144	9031847	NSC1000-01	03/19/09 21:29
Xylenes, total	7.95	14.1		mg/kg	15.0	41%	16 - 159	9031847	NSC1000-01	03/19/09 21:29
1,2-Dichloroethene (total)	ND	5.38		mg/kg	10.0	54%	40 - 144	9031847	NSC1000-01	03/19/09 21:29
1,1,2-Trifluorotrichloroethane	ND	2.73		mg/kg	5.00	55%	35 - 143	9031847	NSC1000-01	03/19/09 21:29
Surrogate: 1,2-Dichloroethane-d4		25.7		ug/kg	25.0	103%	41 - 150	9031847	NSC1000-01	03/19/09 21:29
Surrogate: Dibromofluoromethane		26.8		ug/kg	25.0	107%	55 - 139	9031847	NSC1000-01	03/19/09 21:29
Surrogate: Toluene-d8		23.7		ug/kg	25.0	95%	57 - 148	9031847	NSC1000-01	03/19/09 21:29
Surrogate: 4-Bromofluorobenzene		24.5		ug/kg	25.0	98%	58 - 150	9031847	NSC1000-01	03/19/09 21:29
9033307-MS1										
Acetone	3.31	15.4		mg/kg	25.0	49%	32 - 163	9033307	NSC1000-08RE1	03/20/09 23:09

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9033307-MS1										
Benzene	ND	2.84		mg/kg	5.00	57%	33 - 146	9033307	NSC1000-08RE1	03/20/09 23:09
Bromobenzene	ND	2.61		mg/kg	5.00	52%	10 - 156	9033307	NSC1000-08RE1	03/20/09 23:09
Bromochloromethane	ND	3.31		mg/kg	5.00	66%	43 - 138	9033307	NSC1000-08RE1	03/20/09 23:09
Bromodichloromethane	ND	2.63		mg/kg	5.00	53%	31 - 149	9033307	NSC1000-08RE1	03/20/09 23:09
Bromoform	ND	2.68		mg/kg	5.00	54%	14 - 167	9033307	NSC1000-08RE1	03/20/09 23:09
Bromomethane	ND	0.454	M8	mg/kg	5.00	9%	16 - 172	9033307	NSC1000-08RE1	03/20/09 23:09
2-Butanone	1.20	15.3		mg/kg	25.0	56%	37 - 151	9033307	NSC1000-08RE1	03/20/09 23:09
sec-Butylbenzene	ND	3.07		mg/kg	5.00	61%	18 - 165	9033307	NSC1000-08RE1	03/20/09 23:09
n-Butylbenzene	ND	3.13		mg/kg	5.00	63%	10 - 168	9033307	NSC1000-08RE1	03/20/09 23:09
tert-Butylbenzene	ND	2.93		mg/kg	5.00	59%	17 - 165	9033307	NSC1000-08RE1	03/20/09 23:09
Carbon disulfide	ND	3.13		mg/kg	5.00	63%	34 - 147	9033307	NSC1000-08RE1	03/20/09 23:09
Carbon Tetrachloride	ND	2.93		mg/kg	5.00	59%	33 - 155	9033307	NSC1000-08RE1	03/20/09 23:09
Chlorobenzene	ND	2.80		mg/kg	5.00	56%	23 - 147	9033307	NSC1000-08RE1	03/20/09 23:09
Chlorodibromomethane	ND	2.64		mg/kg	5.00	53%	21 - 155	9033307	NSC1000-08RE1	03/20/09 23:09
Chloroethane	ND	0.261	M8	mg/kg	5.00	5%	44 - 155	9033307	NSC1000-08RE1	03/20/09 23:09
Chloroform	ND	3.16		mg/kg	5.00	63%	39 - 140	9033307	NSC1000-08RE1	03/20/09 23:09
Chloromethane	ND	2.03		mg/kg	5.00	41%	14 - 143	9033307	NSC1000-08RE1	03/20/09 23:09
2-Chlorotoluene	ND	2.74		mg/kg	5.00	55%	21 - 154	9033307	NSC1000-08RE1	03/20/09 23:09
4-Chlorotoluene	ND	2.69		mg/kg	5.00	54%	10 - 156	9033307	NSC1000-08RE1	03/20/09 23:09
1,2-Dibromo-3-chloropropane	ND	2.81		mg/kg	5.00	56%	10 - 159	9033307	NSC1000-08RE1	03/20/09 23:09
1,2-Dibromoethane (EDB)	ND	2.71		mg/kg	5.00	54%	19 - 151	9033307	NSC1000-08RE1	03/20/09 23:09
Dibromomethane	ND	2.75		mg/kg	5.00	55%	32 - 147	9033307	NSC1000-08RE1	03/20/09 23:09
1,4-Dichlorobenzene	ND	2.70		mg/kg	5.00	54%	10 - 152	9033307	NSC1000-08RE1	03/20/09 23:09
1,3-Dichlorobenzene	ND	2.77		mg/kg	5.00	55%	10 - 153	9033307	NSC1000-08RE1	03/20/09 23:09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9033307-MS1										
1,2-Dichlorobenzene	ND	2.87		mg/kg	5.00	57%	10 - 155	9033307	NSC1000-08RE1	03/20/09 23:09
Dichlorodifluoromethane	ND	1.93		mg/kg	5.00	39%	10 - 143	9033307	NSC1000-08RE1	03/20/09 23:09
1,1-Dichloroethane	ND	2.88		mg/kg	5.00	58%	49 - 156	9033307	NSC1000-08RE1	03/20/09 23:09
1,2-Dichloroethane	ND	2.75		mg/kg	5.00	55%	27 - 145	9033307	NSC1000-08RE1	03/20/09 23:09
cis-1,2-Dichloroethene	ND	2.91		mg/kg	5.00	58%	39 - 143	9033307	NSC1000-08RE1	03/20/09 23:09
1,1-Dichloroethene	ND	2.44		mg/kg	5.00	49%	42 - 145	9033307	NSC1000-08RE1	03/20/09 23:09
trans-1,2-Dichloroethene	ND	2.99		mg/kg	5.00	60%	41 - 146	9033307	NSC1000-08RE1	03/20/09 23:09
1,3-Dichloropropane	ND	2.78		mg/kg	5.00	56%	30 - 143	9033307	NSC1000-08RE1	03/20/09 23:09
1,2-Dichloropropane	ND	2.62		mg/kg	5.00	52%	37 - 136	9033307	NSC1000-08RE1	03/20/09 23:09
2,2-Dichloropropane	ND	2.76		mg/kg	5.00	55%	30 - 145	9033307	NSC1000-08RE1	03/20/09 23:09
cis-1,3-Dichloropropene	ND	2.85		mg/kg	5.00	57%	29 - 149	9033307	NSC1000-08RE1	03/20/09 23:09
trans-1,3-Dichloropropene	ND	2.67		mg/kg	5.00	53%	17 - 146	9033307	NSC1000-08RE1	03/20/09 23:09
1,1-Dichloropropene	ND	3.01		mg/kg	5.00	60%	36 - 147	9033307	NSC1000-08RE1	03/20/09 23:09
Ethylbenzene	0.265	3.03		mg/kg	5.00	55%	16 - 160	9033307	NSC1000-08RE1	03/20/09 23:09
Hexachlorobutadiene	ND	3.45		mg/kg	5.00	69%	10 - 191	9033307	NSC1000-08RE1	03/20/09 23:09
2-Hexanone	ND	13.7		mg/kg	25.0	55%	19 - 154	9033307	NSC1000-08RE1	03/20/09 23:09
Isopropylbenzene	ND	2.99		mg/kg	5.00	60%	16 - 156	9033307	NSC1000-08RE1	03/20/09 23:09
p-Isopropyltoluene	ND	2.96		mg/kg	5.00	59%	13 - 160	9033307	NSC1000-08RE1	03/20/09 23:09
Methyl tert-Butyl Ether	ND	2.62		mg/kg	5.00	52%	30 - 136	9033307	NSC1000-08RE1	03/20/09 23:09
Methylene Chloride	ND	3.33		mg/kg	5.00	67%	31 - 160	9033307	NSC1000-08RE1	03/20/09 23:09
4-Methyl-2-pentanone	ND	13.6		mg/kg	25.0	54%	25 - 149	9033307	NSC1000-08RE1	03/20/09 23:09
Naphthalene	ND	2.66		mg/kg	5.00	53%	10 - 151	9033307	NSC1000-08RE1	03/20/09 23:09
n-Propylbenzene	ND	2.95		mg/kg	5.00	59%	17 - 158	9033307	NSC1000-08RE1	03/20/09 23:09
Styrene	ND	2.96		mg/kg	5.00	59%	11 - 168	9033307	NSC1000-08RE1	03/20/09 23:09

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9033307-MS1										
1,1,1,2-Tetrachloroethane	ND	2.77		mg/kg	5.00	55%	30 - 147	9033307	NSC1000-08RE1	03/20/09 23:09
1,1,2,2-Tetrachloroethane	ND	2.63		mg/kg	5.00	53%	20 - 155	9033307	NSC1000-08RE1	03/20/09 23:09
Tetrachloroethene	ND	3.14		mg/kg	5.00	63%	27 - 151	9033307	NSC1000-08RE1	03/20/09 23:09
Toluene	0.663	3.49		mg/kg	5.00	57%	30 - 145	9033307	NSC1000-08RE1	03/20/09 23:09
1,2,3-Trichlorobenzene	ND	3.07		mg/kg	5.00	61%	10 - 158	9033307	NSC1000-08RE1	03/20/09 23:09
1,2,4-Trichlorobenzene	ND	3.06		mg/kg	5.00	61%	10 - 160	9033307	NSC1000-08RE1	03/20/09 23:09
1,1,2-Trichloroethane	ND	3.02		mg/kg	5.00	60%	34 - 140	9033307	NSC1000-08RE1	03/20/09 23:09
1,1,1-Trichloroethane	ND	2.91		mg/kg	5.00	58%	36 - 150	9033307	NSC1000-08RE1	03/20/09 23:09
Trichloroethene	ND	3.12		mg/kg	5.00	62%	33 - 145	9033307	NSC1000-08RE1	03/20/09 23:09
Trichlorofluoromethane	ND	0.370	M8	mg/kg	5.00	7%	31 - 150	9033307	NSC1000-08RE1	03/20/09 23:09
1,2,3-Trichloropropane	ND	2.44		mg/kg	5.00	49%	14 - 143	9033307	NSC1000-08RE1	03/20/09 23:09
1,3,5-Trimethylbenzene	ND	2.86		mg/kg	5.00	57%	20 - 158	9033307	NSC1000-08RE1	03/20/09 23:09
1,2,4-Trimethylbenzene	ND	2.70		mg/kg	5.00	54%	10 - 166	9033307	NSC1000-08RE1	03/20/09 23:09
Vinyl chloride	ND	2.03		mg/kg	5.00	41%	32 - 144	9033307	NSC1000-08RE1	03/20/09 23:09
Xylenes, total	1.36	8.89		mg/kg	15.0	50%	16 - 159	9033307	NSC1000-08RE1	03/20/09 23:09
1,1,2-Trifluorotrichloroethane	ND	3.17		mg/kg	5.00	63%	35 - 143	9033307	NSC1000-08RE1	03/20/09 23:09
Surrogate: 1,2-Dichloroethane-d4		25.5		ug/kg	25.0	102%	41 - 150	9033307	NSC1000-08RE1	03/20/09 23:09
Surrogate: Dibromofluoromethane		26.4		ug/kg	25.0	105%	55 - 139	9033307	NSC1000-08RE1	03/20/09 23:09
Surrogate: Toluene-d8		25.9		ug/kg	25.0	104%	57 - 148	9033307	NSC1000-08RE1	03/20/09 23:09
Surrogate: 4-Bromofluorobenzene		24.3		ug/kg	25.0	97%	58 - 150	9033307	NSC1000-08RE1	03/20/09 23:09
9033311-MS1										
Acetone	ND	1240		mg/kg	2500	50%	32 - 163	9033311	NSC1000-09RE2	03/21/09 06:18
Benzene	ND	268		mg/kg	500	54%	33 - 146	9033311	NSC1000-09RE2	03/21/09 06:18
Bromobenzene	ND	248		mg/kg	500	50%	10 - 156	9033311	NSC1000-09RE2	03/21/09 06:18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9033311-MS1										
Bromochloromethane	ND	263		mg/kg	500	53%	43 - 138	9033311	NSC1000-09RE2	03/21/09 06:18
Bromodichloromethane	ND	258		mg/kg	500	52%	31 - 149	9033311	NSC1000-09RE2	03/21/09 06:18
Bromoform	ND	264		mg/kg	500	53%	14 - 167	9033311	NSC1000-09RE2	03/21/09 06:18
Bromomethane	ND	257		mg/kg	500	51%	16 - 172	9033311	NSC1000-09RE2	03/21/09 06:18
2-Butanone	ND	1300		mg/kg	2500	52%	37 - 151	9033311	NSC1000-09RE2	03/21/09 06:18
sec-Butylbenzene	ND	275		mg/kg	500	55%	18 - 165	9033311	NSC1000-09RE2	03/21/09 06:18
n-Butylbenzene	ND	277		mg/kg	500	55%	10 - 168	9033311	NSC1000-09RE2	03/21/09 06:18
tert-Butylbenzene	ND	271		mg/kg	500	54%	17 - 165	9033311	NSC1000-09RE2	03/21/09 06:18
Carbon disulfide	ND	278		mg/kg	500	56%	34 - 147	9033311	NSC1000-09RE2	03/21/09 06:18
Carbon Tetrachloride	ND	259		mg/kg	500	52%	33 - 155	9033311	NSC1000-09RE2	03/21/09 06:18
Chlorobenzene	ND	264		mg/kg	500	53%	23 - 147	9033311	NSC1000-09RE2	03/21/09 06:18
Chlorodibromomethane	ND	258		mg/kg	500	52%	21 - 155	9033311	NSC1000-09RE2	03/21/09 06:18
Chloroethane	ND	237		mg/kg	500	47%	44 - 155	9033311	NSC1000-09RE2	03/21/09 06:18
Chloroform	ND	258		mg/kg	500	52%	39 - 140	9033311	NSC1000-09RE2	03/21/09 06:18
Chloromethane	ND	210		mg/kg	500	42%	14 - 143	9033311	NSC1000-09RE2	03/21/09 06:18
2-Chlorotoluene	ND	254		mg/kg	500	51%	21 - 154	9033311	NSC1000-09RE2	03/21/09 06:18
4-Chlorotoluene	ND	251		mg/kg	500	50%	10 - 156	9033311	NSC1000-09RE2	03/21/09 06:18
1,2-Dibromo-3-chloropropane	ND	253		mg/kg	500	51%	10 - 159	9033311	NSC1000-09RE2	03/21/09 06:18
1,2-Dibromoethane (EDB)	ND	261		mg/kg	500	52%	19 - 151	9033311	NSC1000-09RE2	03/21/09 06:18
Dibromomethane	ND	254		mg/kg	500	51%	32 - 147	9033311	NSC1000-09RE2	03/21/09 06:18
1,4-Dichlorobenzene	ND	254		mg/kg	500	51%	10 - 152	9033311	NSC1000-09RE2	03/21/09 06:18
1,3-Dichlorobenzene	ND	256		mg/kg	500	51%	10 - 153	9033311	NSC1000-09RE2	03/21/09 06:18
1,2-Dichlorobenzene	ND	270		mg/kg	500	54%	10 - 155	9033311	NSC1000-09RE2	03/21/09 06:18
Dichlorodifluoromethane	ND	178		mg/kg	500	36%	10 - 143	9033311	NSC1000-09RE2	03/21/09 06:18

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9033311-MS1										
1,1-Dichloroethane	ND	233	M8	mg/kg	500	47%	49 - 156	9033311	NSC1000-09RE2	03/21/09 06:18
1,2-Dichloroethane	5.38	242		mg/kg	500	47%	27 - 145	9033311	NSC1000-09RE2	03/21/09 06:18
cis-1,2-Dichloroethene	ND	237		mg/kg	500	47%	39 - 143	9033311	NSC1000-09RE2	03/21/09 06:18
1,1-Dichloroethene	ND	229		mg/kg	500	46%	42 - 145	9033311	NSC1000-09RE2	03/21/09 06:18
trans-1,2-Dichloroethene	ND	232		mg/kg	500	46%	41 - 146	9033311	NSC1000-09RE2	03/21/09 06:18
1,3-Dichloropropane	ND	261		mg/kg	500	52%	30 - 143	9033311	NSC1000-09RE2	03/21/09 06:18
1,2-Dichloropropane	ND	253		mg/kg	500	51%	37 - 136	9033311	NSC1000-09RE2	03/21/09 06:18
2,2-Dichloropropane	ND	231		mg/kg	500	46%	30 - 145	9033311	NSC1000-09RE2	03/21/09 06:18
cis-1,3-Dichloropropene	ND	239		mg/kg	500	48%	29 - 149	9033311	NSC1000-09RE2	03/21/09 06:18
trans-1,3-Dichloropropene	5.65	242		mg/kg	500	47%	17 - 146	9033311	NSC1000-09RE2	03/21/09 06:18
1,1-Dichloropropene	ND	264		mg/kg	500	53%	36 - 147	9033311	NSC1000-09RE2	03/21/09 06:18
Ethylbenzene	ND	258		mg/kg	500	52%	16 - 160	9033311	NSC1000-09RE2	03/21/09 06:18
Hexachlorobutadiene	ND	268		mg/kg	500	54%	10 - 191	9033311	NSC1000-09RE2	03/21/09 06:18
2-Hexanone	ND	1360		mg/kg	2500	54%	19 - 154	9033311	NSC1000-09RE2	03/21/09 06:18
Isopropylbenzene	ND	279		mg/kg	500	56%	16 - 156	9033311	NSC1000-09RE2	03/21/09 06:18
p-Isopropyltoluene	ND	266		mg/kg	500	53%	13 - 160	9033311	NSC1000-09RE2	03/21/09 06:18
Methyl tert-Butyl Ether	ND	215		mg/kg	500	43%	30 - 136	9033311	NSC1000-09RE2	03/21/09 06:18
Methylene Chloride	ND	259		mg/kg	500	52%	31 - 160	9033311	NSC1000-09RE2	03/21/09 06:18
4-Methyl-2-pentanone	22.4	1300		mg/kg	2500	51%	25 - 149	9033311	NSC1000-09RE2	03/21/09 06:18
Naphthalene	ND	227		mg/kg	500	45%	10 - 151	9033311	NSC1000-09RE2	03/21/09 06:18
n-Propylbenzene	ND	269		mg/kg	500	54%	17 - 158	9033311	NSC1000-09RE2	03/21/09 06:18
Styrene	ND	284		mg/kg	500	57%	11 - 168	9033311	NSC1000-09RE2	03/21/09 06:18
1,1,1,2-Tetrachloroethane	ND	265		mg/kg	500	53%	30 - 147	9033311	NSC1000-09RE2	03/21/09 06:18
1,1,2,2-Tetrachloroethane	ND	252		mg/kg	500	50%	20 - 155	9033311	NSC1000-09RE2	03/21/09 06:18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9033311-MS1										
Tetrachloroethene	ND	272		mg/kg	500	54%	27 - 151	9033311	NSC1000-09RE2	03/21/09 06:18
Toluene	219	446		mg/kg	500	45%	30 - 145	9033311	NSC1000-09RE2	03/21/09 06:18
1,2,3-Trichlorobenzene	ND	248		mg/kg	500	50%	10 - 158	9033311	NSC1000-09RE2	03/21/09 06:18
1,2,4-Trichlorobenzene	ND	265		mg/kg	500	53%	10 - 160	9033311	NSC1000-09RE2	03/21/09 06:18
1,1,2-Trichloroethane	ND	264		mg/kg	500	53%	34 - 140	9033311	NSC1000-09RE2	03/21/09 06:18
1,1,1-Trichloroethane	ND	254		mg/kg	500	51%	36 - 150	9033311	NSC1000-09RE2	03/21/09 06:18
Trichloroethene	ND	280		mg/kg	500	56%	33 - 145	9033311	NSC1000-09RE2	03/21/09 06:18
Trichlorofluoromethane	ND	211		mg/kg	500	42%	31 - 150	9033311	NSC1000-09RE2	03/21/09 06:18
1,2,3-Trichloropropane	ND	239		mg/kg	500	48%	14 - 143	9033311	NSC1000-09RE2	03/21/09 06:18
1,3,5-Trimethylbenzene	ND	262		mg/kg	500	52%	20 - 158	9033311	NSC1000-09RE2	03/21/09 06:18
1,2,4-Trimethylbenzene	ND	247		mg/kg	500	49%	10 - 166	9033311	NSC1000-09RE2	03/21/09 06:18
Vinyl chloride	ND	210		mg/kg	500	42%	32 - 144	9033311	NSC1000-09RE2	03/21/09 06:18
Xylenes, total	ND	730		mg/kg	1500	49%	16 - 159	9033311	NSC1000-09RE2	03/21/09 06:18
Surrogate: 1,2-Dichloroethane-d4		23.3		ug/kg	25.0	93%	41 - 150	9033311	NSC1000-09RE2	03/21/09 06:18
Surrogate: Dibromofluoromethane		24.1		ug/kg	25.0	96%	55 - 139	9033311	NSC1000-09RE2	03/21/09 06:18
Surrogate: Toluene-d8		24.1		ug/kg	25.0	97%	57 - 148	9033311	NSC1000-09RE2	03/21/09 06:18
Surrogate: 4-Bromofluorobenzene		23.6		ug/kg	25.0	95%	58 - 150	9033311	NSC1000-09RE2	03/21/09 06:18

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSC1000 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9031847-MSD1												
Acetone	51.8	67.7		mg/kg	25.0	64%	32 - 163	0.7	45	9031847	NSC1000-01	03/19/09 21:56
Benzene	ND	2.85		mg/kg	5.00	57%	33 - 146	9	43	9031847	NSC1000-01	03/19/09 21:56
Bromobenzene	ND	2.63		mg/kg	5.00	53%	10 - 156	12	50	9031847	NSC1000-01	03/19/09 21:56
Bromochloromethane	ND	3.27		mg/kg	5.00	65%	43 - 138	12	32	9031847	NSC1000-01	03/19/09 21:56
Bromodichloromethane	ND	2.67		mg/kg	5.00	53%	31 - 149	11	37	9031847	NSC1000-01	03/19/09 21:56
Bromoform	ND	2.61		mg/kg	5.00	52%	14 - 167	12	50	9031847	NSC1000-01	03/19/09 21:56
Bromomethane	ND	0.446	M8	mg/kg	5.00	9%	16 - 172	20	50	9031847	NSC1000-01	03/19/09 21:56
2-Butanone	21.8	35.9		mg/kg	25.0	57%	37 - 151	4	43	9031847	NSC1000-01	03/19/09 21:56
sec-Butylbenzene	0.0615	3.03		mg/kg	5.00	59%	18 - 165	12	50	9031847	NSC1000-01	03/19/09 21:56
n-Butylbenzene	0.0956	3.10		mg/kg	5.00	60%	10 - 168	12	50	9031847	NSC1000-01	03/19/09 21:56
tert-Butylbenzene	0.0364	2.93		mg/kg	5.00	58%	17 - 165	12	50	9031847	NSC1000-01	03/19/09 21:56
Carbon disulfide	ND	3.46		mg/kg	5.00	69%	34 - 147	10	47	9031847	NSC1000-01	03/19/09 21:56
Carbon Tetrachloride	ND	3.01		mg/kg	5.00	60%	33 - 155	12	44	9031847	NSC1000-01	03/19/09 21:56
Chlorobenzene	ND	2.68		mg/kg	5.00	54%	23 - 147	10	44	9031847	NSC1000-01	03/19/09 21:56
Chlorodibromomethane	ND	2.53		mg/kg	5.00	51%	21 - 155	11	45	9031847	NSC1000-01	03/19/09 21:56
Chloroethane	ND	0.251	M8	mg/kg	5.00	5%	44 - 155	6	50	9031847	NSC1000-01	03/19/09 21:56
Chloroform	ND	3.20		mg/kg	5.00	64%	39 - 140	11	36	9031847	NSC1000-01	03/19/09 21:56
Chloromethane	ND	1.76		mg/kg	5.00	35%	14 - 143	15	50	9031847	NSC1000-01	03/19/09 21:56
2-Chlorotoluene	0.0337	2.72		mg/kg	5.00	54%	21 - 154	10	50	9031847	NSC1000-01	03/19/09 21:56
4-Chlorotoluene	ND	2.66		mg/kg	5.00	53%	10 - 156	11	50	9031847	NSC1000-01	03/19/09 21:56
1,2-Dibromo-3-chloropropane	ND	2.82		mg/kg	5.00	56%	10 - 159	14	50	9031847	NSC1000-01	03/19/09 21:56
1,2-Dibromoethane (EDB)	ND	2.66		mg/kg	5.00	53%	19 - 151	11	50	9031847	NSC1000-01	03/19/09 21:56
Dibromomethane	ND	2.77		mg/kg	5.00	55%	32 - 147	11	45	9031847	NSC1000-01	03/19/09 21:56
1,4-Dichlorobenzene	0.0323	2.72		mg/kg	5.00	54%	10 - 152	12	50	9031847	NSC1000-01	03/19/09 21:56
1,3-Dichlorobenzene	0.0310	2.80		mg/kg	5.00	55%	10 - 153	12	50	9031847	NSC1000-01	03/19/09 21:56
1,2-Dichlorobenzene	0.0346	2.88		mg/kg	5.00	57%	10 - 155	12	50	9031847	NSC1000-01	03/19/09 21:56
Dichlorodifluoromethane	ND	1.13		mg/kg	5.00	23%	10 - 143	6	43	9031847	NSC1000-01	03/19/09 21:56
1,1-Dichloroethane	ND	2.89		mg/kg	5.00	58%	49 - 156	11	37	9031847	NSC1000-01	03/19/09 21:56
1,2-Dichloroethane	ND	2.80		mg/kg	5.00	56%	27 - 145	11	44	9031847	NSC1000-01	03/19/09 21:56
cis-1,2-Dichloroethene	ND	2.95		mg/kg	5.00	59%	39 - 143	11	35	9031847	NSC1000-01	03/19/09 21:56
1,1-Dichloroethene	ND	2.41		mg/kg	5.00	48%	42 - 145	10	41	9031847	NSC1000-01	03/19/09 21:56
trans-1,2-Dichloroethene	ND	2.98		mg/kg	5.00	60%	41 - 146	9	37	9031847	NSC1000-01	03/19/09 21:56
1,3-Dichloropropane	ND	2.66		mg/kg	5.00	53%	30 - 143	10	44	9031847	NSC1000-01	03/19/09 21:56
1,2-Dichloropropane	ND	2.69		mg/kg	5.00	54%	37 - 136	12	35	9031847	NSC1000-01	03/19/09 21:56
2,2-Dichloropropane	ND	2.98		mg/kg	5.00	60%	30 - 145	12	33	9031847	NSC1000-01	03/19/09 21:56
cis-1,3-Dichloropropene	ND	2.64		mg/kg	5.00	53%	29 - 149	11	43	9031847	NSC1000-01	03/19/09 21:56
trans-1,3-Dichloropropene	ND	2.46		mg/kg	5.00	49%	17 - 146	13	50	9031847	NSC1000-01	03/19/09 21:56
1,1-Dichloropropene	ND	3.07		mg/kg	5.00	61%	36 - 147	12	41	9031847	NSC1000-01	03/19/09 21:56
Ethylbenzene	2.06	4.48		mg/kg	5.00	49%	16 - 160	4	48	9031847	NSC1000-01	03/19/09 21:56
Hexachlorobutadiene	0.315	3.40		mg/kg	5.00	62%	10 - 191	17	50	9031847	NSC1000-01	03/19/09 21:56
2-Hexanone	ND	13.4		mg/kg	25.0	54%	19 - 154	13	50	9031847	NSC1000-01	03/19/09 21:56

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9031847-MSD1												
Isopropylbenzene	0.0460	2.86		mg/kg	5.00	56%	16 - 156	10	50	9031847	NSC1000-01	03/19/09 21:56
p-Isopropyltoluene	0.0587	2.96		mg/kg	5.00	58%	13 - 160	13	50	9031847	NSC1000-01	03/19/09 21:56
Methyl tert-Butyl Ether	ND	2.74		mg/kg	5.00	55%	30 - 136	13	45	9031847	NSC1000-01	03/19/09 21:56
Methylene Chloride	ND	3.38		mg/kg	5.00	68%	31 - 160	11	39	9031847	NSC1000-01	03/19/09 21:56
4-Methyl-2-pentanone	9.23	22.9		mg/kg	25.0	55%	25 - 149	6	50	9031847	NSC1000-01	03/19/09 21:56
Naphthalene	0.291	2.72		mg/kg	5.00	49%	10 - 151	21	50	9031847	NSC1000-01	03/19/09 21:56
n-Propylbenzene	0.0483	2.92		mg/kg	5.00	57%	17 - 158	11	50	9031847	NSC1000-01	03/19/09 21:56
Styrene	ND	2.89		mg/kg	5.00	58%	11 - 168	10	50	9031847	NSC1000-01	03/19/09 21:56
1,1,1,2-Tetrachloroethane	ND	2.67		mg/kg	5.00	53%	30 - 147	12	43	9031847	NSC1000-01	03/19/09 21:56
1,1,2,2-Tetrachloroethane	ND	2.69		mg/kg	5.00	54%	20 - 155	14	50	9031847	NSC1000-01	03/19/09 21:56
Tetrachloroethene	ND	2.93		mg/kg	5.00	59%	27 - 151	10	45	9031847	NSC1000-01	03/19/09 21:56
Toluene	27.1	29.6		mg/kg	5.00	50%	30 - 145	2	44	9031847	NSC1000-01	03/19/09 21:56
1,2,3-Trichlorobenzene	0.401	3.10		mg/kg	5.00	54%	10 - 158	23	50	9031847	NSC1000-01	03/19/09 21:56
1,2,4-Trichlorobenzene	0.234	3.14		mg/kg	5.00	58%	10 - 160	18	50	9031847	NSC1000-01	03/19/09 21:56
1,1,2-Trichloroethane	ND	2.73		mg/kg	5.00	55%	34 - 140	12	41	9031847	NSC1000-01	03/19/09 21:56
1,1,1-Trichloroethane	ND	3.02		mg/kg	5.00	60%	36 - 150	12	39	9031847	NSC1000-01	03/19/09 21:56
Trichloroethene	ND	3.13		mg/kg	5.00	63%	33 - 145	10	40	9031847	NSC1000-01	03/19/09 21:56
Trichlorofluoromethane	ND	0.362	M8	mg/kg	5.00	7%	31 - 150	0.4	42	9031847	NSC1000-01	03/19/09 21:56
1,2,3-Trichloropropane	ND	2.54		mg/kg	5.00	51%	14 - 143	13	50	9031847	NSC1000-01	03/19/09 21:56
1,3,5-Trimethylbenzene	0.0510	2.83		mg/kg	5.00	56%	20 - 158	11	50	9031847	NSC1000-01	03/19/09 21:56
1,2,4-Trimethylbenzene	0.0811	2.72		mg/kg	5.00	53%	10 - 166	11	50	9031847	NSC1000-01	03/19/09 21:56
Vinyl chloride	ND	1.97		mg/kg	5.00	39%	32 - 144	10	41	9031847	NSC1000-01	03/19/09 21:56
Xylenes, total	7.95	14.4		mg/kg	15.0	43%	16 - 159	2	48	9031847	NSC1000-01	03/19/09 21:56
Surrogate: 1,2-Dichloroethane-d4		26.6		ug/kg	25.0	107%	41 - 150			9031847	NSC1000-01	03/19/09 21:56
Surrogate: Dibromofluoromethane		26.8		ug/kg	25.0	107%	55 - 139			9031847	NSC1000-01	03/19/09 21:56
Surrogate: Toluene-d8		23.8		ug/kg	25.0	95%	57 - 148			9031847	NSC1000-01	03/19/09 21:56
Surrogate: 4-Bromofluorobenzene		24.7		ug/kg	25.0	99%	58 - 150			9031847	NSC1000-01	03/19/09 21:56
9033307-MSD1												
Acetone	3.31	14.8		mg/kg	25.0	46%	32 - 163	4	45	9033307	NSC1000-08RE1	03/20/09 23:36
Benzene	ND	2.81		mg/kg	5.00	56%	33 - 146	1	43	9033307	NSC1000-08RE1	03/20/09 23:36
Bromobenzene	ND	2.52		mg/kg	5.00	50%	10 - 156	4	50	9033307	NSC1000-08RE1	03/20/09 23:36
Bromochloromethane	ND	3.26		mg/kg	5.00	65%	43 - 138	2	32	9033307	NSC1000-08RE1	03/20/09 23:36
Bromodichloromethane	ND	2.62		mg/kg	5.00	52%	31 - 149	0.1	37	9033307	NSC1000-08RE1	03/20/09 23:36
Bromoform	ND	2.66		mg/kg	5.00	53%	14 - 167	0.7	50	9033307	NSC1000-08RE1	03/20/09 23:36
Bromomethane	ND	0.454	M8	mg/kg	5.00	9%	16 - 172	0.2	50	9033307	NSC1000-08RE1	03/20/09 23:36

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033307-MSD1												
2-Butanone	1.20	14.9		mg/kg	25.0	55%	37 - 151	3	43	9033307	NSC1000-08RE1	03/20/09 23:36
sec-Butylbenzene	ND	3.04		mg/kg	5.00	61%	18 - 165	0.8	50	9033307	NSC1000-08RE1	03/20/09 23:36
n-Butylbenzene	ND	3.07		mg/kg	5.00	61%	10 - 168	2	50	9033307	NSC1000-08RE1	03/20/09 23:36
tert-Butylbenzene	ND	2.97		mg/kg	5.00	59%	17 - 165	1	50	9033307	NSC1000-08RE1	03/20/09 23:36
Carbon disulfide	ND	3.05		mg/kg	5.00	61%	34 - 147	2	47	9033307	NSC1000-08RE1	03/20/09 23:36
Carbon Tetrachloride	ND	2.92		mg/kg	5.00	58%	33 - 155	0.3	44	9033307	NSC1000-08RE1	03/20/09 23:36
Chlorobenzene	ND	2.75		mg/kg	5.00	55%	23 - 147	2	44	9033307	NSC1000-08RE1	03/20/09 23:36
Chlorodibromomethane	ND	2.70		mg/kg	5.00	54%	21 - 155	2	45	9033307	NSC1000-08RE1	03/20/09 23:36
Chloroethane	ND	0.244	M8	mg/kg	5.00	5%	44 - 155	7	50	9033307	NSC1000-08RE1	03/20/09 23:36
Chloroform	ND	3.10		mg/kg	5.00	62%	39 - 140	2	36	9033307	NSC1000-08RE1	03/20/09 23:36
Chloromethane	ND	2.00		mg/kg	5.00	40%	14 - 143	2	50	9033307	NSC1000-08RE1	03/20/09 23:36
2-Chlorotoluene	ND	2.75		mg/kg	5.00	55%	21 - 154	0.1	50	9033307	NSC1000-08RE1	03/20/09 23:36
4-Chlorotoluene	ND	2.66		mg/kg	5.00	53%	10 - 156	1	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,2-Dibromo-3-chloropropane	ND	2.66		mg/kg	5.00	53%	10 - 159	5	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,2-Dibromoethane (EDB)	ND	2.75		mg/kg	5.00	55%	19 - 151	2	50	9033307	NSC1000-08RE1	03/20/09 23:36
Dibromomethane	ND	2.71		mg/kg	5.00	54%	32 - 147	1	45	9033307	NSC1000-08RE1	03/20/09 23:36
1,4-Dichlorobenzene	ND	2.68		mg/kg	5.00	54%	10 - 152	0.8	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,3-Dichlorobenzene	ND	2.73		mg/kg	5.00	55%	10 - 153	1	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,2-Dichlorobenzene	ND	2.81		mg/kg	5.00	56%	10 - 155	2	50	9033307	NSC1000-08RE1	03/20/09 23:36
Dichlorodifluoromethane	ND	1.89		mg/kg	5.00	38%	10 - 143	2	43	9033307	NSC1000-08RE1	03/20/09 23:36
1,1-Dichloroethane	ND	2.85		mg/kg	5.00	57%	49 - 156	1	37	9033307	NSC1000-08RE1	03/20/09 23:36
1,2-Dichloroethane	ND	2.70		mg/kg	5.00	54%	27 - 145	2	44	9033307	NSC1000-08RE1	03/20/09 23:36
cis-1,2-Dichloroethene	ND	2.85		mg/kg	5.00	57%	39 - 143	2	35	9033307	NSC1000-08RE1	03/20/09 23:36
1,1-Dichloroethene	ND	2.39		mg/kg	5.00	48%	42 - 145	2	41	9033307	NSC1000-08RE1	03/20/09 23:36
trans-1,2-Dichloroethene	ND	2.86		mg/kg	5.00	57%	41 - 146	5	37	9033307	NSC1000-08RE1	03/20/09 23:36
1,3-Dichloropropane	ND	2.83		mg/kg	5.00	57%	30 - 143	2	44	9033307	NSC1000-08RE1	03/20/09 23:36

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033307-MSD1												
1,2-Dichloropropane	ND	2.63		mg/kg	5.00	53%	37 - 136	0.4	35	9033307	NSC1000-08RE1	03/20/09 23:36
2,2-Dichloropropane	ND	2.72		mg/kg	5.00	54%	30 - 145	2	33	9033307	NSC1000-08RE1	03/20/09 23:36
cis-1,3-Dichloropropene	ND	2.89		mg/kg	5.00	58%	29 - 149	2	43	9033307	NSC1000-08RE1	03/20/09 23:36
trans-1,3-Dichloropropene	ND	2.70		mg/kg	5.00	54%	17 - 146	0.9	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,1-Dichloropropene	ND	2.97		mg/kg	5.00	59%	36 - 147	2	41	9033307	NSC1000-08RE1	03/20/09 23:36
Ethylbenzene	0.265	3.03		mg/kg	5.00	55%	16 - 160	0.3	48	9033307	NSC1000-08RE1	03/20/09 23:36
Hexachlorobutadiene	ND	3.45		mg/kg	5.00	69%	10 - 191	0.04	50	9033307	NSC1000-08RE1	03/20/09 23:36
2-Hexanone	ND	13.7		mg/kg	25.0	55%	19 - 154	0.2	50	9033307	NSC1000-08RE1	03/20/09 23:36
Isopropylbenzene	ND	3.03		mg/kg	5.00	61%	16 - 156	1	50	9033307	NSC1000-08RE1	03/20/09 23:36
p-Isopropyltoluene	ND	2.92		mg/kg	5.00	58%	13 - 160	1	50	9033307	NSC1000-08RE1	03/20/09 23:36
Methyl tert-Butyl Ether	ND	2.48		mg/kg	5.00	50%	30 - 136	5	45	9033307	NSC1000-08RE1	03/20/09 23:36
Methylene Chloride	ND	3.31		mg/kg	5.00	66%	31 - 160	0.5	39	9033307	NSC1000-08RE1	03/20/09 23:36
4-Methyl-2-pentanone	ND	13.5		mg/kg	25.0	54%	25 - 149	0.5	50	9033307	NSC1000-08RE1	03/20/09 23:36
Naphthalene	ND	2.51		mg/kg	5.00	50%	10 - 151	6	50	9033307	NSC1000-08RE1	03/20/09 23:36
n-Propylbenzene	ND	2.91		mg/kg	5.00	58%	17 - 158	1	50	9033307	NSC1000-08RE1	03/20/09 23:36
Styrene	ND	3.02		mg/kg	5.00	60%	11 - 168	2	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,1,1,2-Tetrachloroethane	ND	2.80		mg/kg	5.00	56%	30 - 147	1	43	9033307	NSC1000-08RE1	03/20/09 23:36
1,1,2,2-Tetrachloroethane	ND	2.43		mg/kg	5.00	49%	20 - 155	8	50	9033307	NSC1000-08RE1	03/20/09 23:36
Tetrachloroethene	ND	3.18		mg/kg	5.00	64%	27 - 151	1	45	9033307	NSC1000-08RE1	03/20/09 23:36
Toluene	0.663	3.40		mg/kg	5.00	55%	30 - 145	3	44	9033307	NSC1000-08RE1	03/20/09 23:36
1,2,3-Trichlorobenzene	ND	2.94		mg/kg	5.00	59%	10 - 158	4	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,2,4-Trichlorobenzene	ND	2.95		mg/kg	5.00	59%	10 - 160	3	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,1,2-Trichloroethane	ND	3.07		mg/kg	5.00	61%	34 - 140	2	41	9033307	NSC1000-08RE1	03/20/09 23:36
1,1,1-Trichloroethane	ND	2.88		mg/kg	5.00	58%	36 - 150	0.9	39	9033307	NSC1000-08RE1	03/20/09 23:36
Trichloroethene	ND	3.11		mg/kg	5.00	62%	33 - 145	0.2	40	9033307	NSC1000-08RE1	03/20/09 23:36
Trichlorofluoromethane	ND	0.372	M8	mg/kg	5.00	7%	31 - 150	0.5	42	9033307	NSC1000-08RE1	03/20/09 23:36

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033307-MSD1												
1,2,3-Trichloropropane	ND	2.31		mg/kg	5.00	46%	14 - 143	5	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,3,5-Trimethylbenzene	ND	2.82		mg/kg	5.00	56%	20 - 158	2	50	9033307	NSC1000-08RE1	03/20/09 23:36
1,2,4-Trimethylbenzene	ND	2.64		mg/kg	5.00	53%	10 - 166	2	50	9033307	NSC1000-08RE1	03/20/09 23:36
Vinyl chloride	ND	2.02		mg/kg	5.00	40%	32 - 144	0.7	41	9033307	NSC1000-08RE1	03/20/09 23:36
Xylenes, total	1.36	9.03		mg/kg	15.0	51%	16 - 159	1	48	9033307	NSC1000-08RE1	03/20/09 23:36
Surrogate: 1,2-Dichloroethane-d4		25.4		ug/kg	25.0	102%	41 - 150			9033307	NSC1000-08RE1	03/20/09 23:36
Surrogate: Dibromofluoromethane		26.3		ug/kg	25.0	105%	55 - 139			9033307	NSC1000-08RE1	03/20/09 23:36
Surrogate: Toluene-d8		25.8		ug/kg	25.0	103%	57 - 148			9033307	NSC1000-08RE1	03/20/09 23:36
Surrogate: 4-Bromofluorobenzene		23.9		ug/kg	25.0	96%	58 - 150			9033307	NSC1000-08RE1	03/20/09 23:36
9033311-MSD1												
Acetone	ND	1330		mg/kg	2500	53%	32 - 163	7	45	9033311	NSC1000-09RE2	03/21/09 06:45
Benzene	ND	281		mg/kg	500	56%	33 - 146	5	43	9033311	NSC1000-09RE2	03/21/09 06:45
Bromobenzene	ND	266		mg/kg	500	53%	10 - 156	7	50	9033311	NSC1000-09RE2	03/21/09 06:45
Bromochloromethane	ND	271		mg/kg	500	54%	43 - 138	3	32	9033311	NSC1000-09RE2	03/21/09 06:45
Bromodichloromethane	ND	270		mg/kg	500	54%	31 - 149	5	37	9033311	NSC1000-09RE2	03/21/09 06:45
Bromoform	ND	282		mg/kg	500	56%	14 - 167	7	50	9033311	NSC1000-09RE2	03/21/09 06:45
Bromomethane	ND	285		mg/kg	500	57%	16 - 172	11	50	9033311	NSC1000-09RE2	03/21/09 06:45
2-Butanone	ND	1380		mg/kg	2500	55%	37 - 151	6	43	9033311	NSC1000-09RE2	03/21/09 06:45
sec-Butylbenzene	ND	301		mg/kg	500	60%	18 - 165	9	50	9033311	NSC1000-09RE2	03/21/09 06:45
n-Butylbenzene	ND	308		mg/kg	500	62%	10 - 168	11	50	9033311	NSC1000-09RE2	03/21/09 06:45
tert-Butylbenzene	ND	298		mg/kg	500	60%	17 - 165	9	50	9033311	NSC1000-09RE2	03/21/09 06:45
Carbon disulfide	ND	298		mg/kg	500	60%	34 - 147	7	47	9033311	NSC1000-09RE2	03/21/09 06:45
Carbon Tetrachloride	ND	274		mg/kg	500	55%	33 - 155	6	44	9033311	NSC1000-09RE2	03/21/09 06:45
Chlorobenzene	ND	282		mg/kg	500	56%	23 - 147	7	44	9033311	NSC1000-09RE2	03/21/09 06:45
Chlorodibromomethane	ND	273		mg/kg	500	55%	21 - 155	6	45	9033311	NSC1000-09RE2	03/21/09 06:45
Chloroethane	ND	245		mg/kg	500	49%	44 - 155	3	50	9033311	NSC1000-09RE2	03/21/09 06:45

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Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033311-MSD1												
Chloroform	ND	270		mg/kg	500	54%	39 - 140	5	36	9033311	NSC1000-09RE2	03/21/09 06:45
Chloromethane	ND	223		mg/kg	500	45%	14 - 143	6	50	9033311	NSC1000-09RE2	03/21/09 06:45
2-Chlorotoluene	ND	275		mg/kg	500	55%	21 - 154	8	50	9033311	NSC1000-09RE2	03/21/09 06:45
4-Chlorotoluene	ND	271		mg/kg	500	54%	10 - 156	8	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,2-Dibromo-3-chloropropane	ND	285		mg/kg	500	57%	10 - 159	12	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,2-Dibromoethane (EDB)	ND	279		mg/kg	500	56%	19 - 151	7	50	9033311	NSC1000-09RE2	03/21/09 06:45
Dibromomethane	ND	264		mg/kg	500	53%	32 - 147	4	45	9033311	NSC1000-09RE2	03/21/09 06:45
1,4-Dichlorobenzene	ND	274		mg/kg	500	55%	10 - 152	8	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,3-Dichlorobenzene	ND	279		mg/kg	500	56%	10 - 153	8	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,2-Dichlorobenzene	ND	292		mg/kg	500	58%	10 - 155	8	50	9033311	NSC1000-09RE2	03/21/09 06:45
Dichlorodifluoromethane	ND	190		mg/kg	500	38%	10 - 143	7	43	9033311	NSC1000-09RE2	03/21/09 06:45
1,1-Dichloroethane	ND	247		mg/kg	500	49%	49 - 156	6	37	9033311	NSC1000-09RE2	03/21/09 06:45
1,2-Dichloroethane	5.38	253		mg/kg	500	50%	27 - 145	4	44	9033311	NSC1000-09RE2	03/21/09 06:45
cis-1,2-Dichloroethene	ND	251		mg/kg	500	50%	39 - 143	6	35	9033311	NSC1000-09RE2	03/21/09 06:45
1,1-Dichloroethene	ND	240		mg/kg	500	48%	42 - 145	5	41	9033311	NSC1000-09RE2	03/21/09 06:45
trans-1,2-Dichloroethene	ND	245		mg/kg	500	49%	41 - 146	5	37	9033311	NSC1000-09RE2	03/21/09 06:45
1,3-Dichloropropane	ND	276		mg/kg	500	55%	30 - 143	6	44	9033311	NSC1000-09RE2	03/21/09 06:45
1,2-Dichloropropane	ND	266		mg/kg	500	53%	37 - 136	5	35	9033311	NSC1000-09RE2	03/21/09 06:45
2,2-Dichloropropane	ND	247		mg/kg	500	49%	30 - 145	7	33	9033311	NSC1000-09RE2	03/21/09 06:45
cis-1,3-Dichloropropene	ND	258		mg/kg	500	52%	29 - 149	8	43	9033311	NSC1000-09RE2	03/21/09 06:45
trans-1,3-Dichloropropene	5.65	261		mg/kg	500	51%	17 - 146	8	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,1-Dichloropropene	ND	280		mg/kg	500	56%	36 - 147	6	41	9033311	NSC1000-09RE2	03/21/09 06:45
Ethylbenzene	ND	276		mg/kg	500	55%	16 - 160	7	48	9033311	NSC1000-09RE2	03/21/09 06:45
Hexachlorobutadiene	ND	311		mg/kg	500	62%	10 - 191	15	50	9033311	NSC1000-09RE2	03/21/09 06:45
2-Hexanone	ND	1450		mg/kg	2500	58%	19 - 154	7	50	9033311	NSC1000-09RE2	03/21/09 06:45
Isopropylbenzene	ND	301		mg/kg	500	60%	16 - 156	7	50	9033311	NSC1000-09RE2	03/21/09 06:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9033311-MSD1												
p-Isopropyltoluene	ND	292		mg/kg	500	58%	13 - 160	10	50	9033311	NSC1000-09RE2	03/21/09 06:45
Methyl tert-Butyl Ether	ND	228		mg/kg	500	46%	30 - 136	6	45	9033311	NSC1000-09RE2	03/21/09 06:45
Methylene Chloride	ND	284		mg/kg	500	57%	31 - 160	9	39	9033311	NSC1000-09RE2	03/21/09 06:45
4-Methyl-2-pentanone	22.4	1400		mg/kg	2500	55%	25 - 149	7	50	9033311	NSC1000-09RE2	03/21/09 06:45
Naphthalene	ND	268		mg/kg	500	54%	10 - 151	17	50	9033311	NSC1000-09RE2	03/21/09 06:45
n-Propylbenzene	ND	294		mg/kg	500	59%	17 - 158	9	50	9033311	NSC1000-09RE2	03/21/09 06:45
Styrene	ND	303		mg/kg	500	61%	11 - 168	6	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,1,1,2-Tetrachloroethane	ND	281		mg/kg	500	56%	30 - 147	6	43	9033311	NSC1000-09RE2	03/21/09 06:45
1,1,2,2-Tetrachloroethane	ND	271		mg/kg	500	54%	20 - 155	7	50	9033311	NSC1000-09RE2	03/21/09 06:45
Tetrachloroethene	ND	292		mg/kg	500	58%	27 - 151	7	45	9033311	NSC1000-09RE2	03/21/09 06:45
Toluene	219	469		mg/kg	500	50%	30 - 145	5	44	9033311	NSC1000-09RE2	03/21/09 06:45
1,2,3-Trichlorobenzene	ND	308		mg/kg	500	62%	10 - 158	21	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,2,4-Trichlorobenzene	ND	311		mg/kg	500	62%	10 - 160	16	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,1,2-Trichloroethane	ND	283		mg/kg	500	57%	34 - 140	7	41	9033311	NSC1000-09RE2	03/21/09 06:45
1,1,1-Trichloroethane	ND	271		mg/kg	500	54%	36 - 150	6	39	9033311	NSC1000-09RE2	03/21/09 06:45
Trichloroethene	ND	300		mg/kg	500	60%	33 - 145	7	40	9033311	NSC1000-09RE2	03/21/09 06:45
Trichlorofluoromethane	ND	222		mg/kg	500	44%	31 - 150	5	42	9033311	NSC1000-09RE2	03/21/09 06:45
1,2,3-Trichloropropane	ND	257		mg/kg	500	51%	14 - 143	7	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,3,5-Trimethylbenzene	ND	286		mg/kg	500	57%	20 - 158	9	50	9033311	NSC1000-09RE2	03/21/09 06:45
1,2,4-Trimethylbenzene	ND	269		mg/kg	500	54%	10 - 166	8	50	9033311	NSC1000-09RE2	03/21/09 06:45
Vinyl chloride	ND	223		mg/kg	500	45%	32 - 144	6	41	9033311	NSC1000-09RE2	03/21/09 06:45
Xylenes, total	ND	776		mg/kg	1500	52%	16 - 159	6	48	9033311	NSC1000-09RE2	03/21/09 06:45
Surrogate: 1,2-Dichloroethane-d4		23.2		ug/kg	25.0	93%	41 - 150			9033311	NSC1000-09RE2	03/21/09 06:45
Surrogate: Dibromofluoromethane		23.9		ug/kg	25.0	96%	55 - 139			9033311	NSC1000-09RE2	03/21/09 06:45
Surrogate: Toluene-d8		24.0		ug/kg	25.0	96%	57 - 148			9033311	NSC1000-09RE2	03/21/09 06:45
Surrogate: 4-Bromofluorobenzene		24.0		ug/kg	25.0	96%	58 - 150			9033311	NSC1000-09RE2	03/21/09 06:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time

Volatile Organic Compounds by EPA Method 8260B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSC1000
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Tennessee
SW846 8260B	Soil	N/A	X	N/A
SW846 8260B	Water	N/A	X	N/A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSC1000
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/12/09 13:00

DATA QUALIFIERS AND DEFINITIONS

M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
RL1	Reporting limit raised due to sample matrix effects.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER R

NSC1000

Cooler Received/Opened On: 3/12/09 @ 1300

1. **Tracking #_____(last 4 digits, FedE**

Courier: Walk-in 95610068

2. **Temperature of rep. sample or temp blank when opened:** 5.9 ***Degrees Celsius***
3. **If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA**
4. **Were custody seals on outside of cooler? YES...NO...NA**

   If yes, how many and where:_____
5. **Were the seals intact, signed, and dated correctly? YES...NO...NA**
6. **Were custody papers inside cooler? YES...NO...NA**

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. **Were custody seals on containers: YES NO and Intact YES...NO...NA**

   Were these signed and dated correctly? YES...NO...NA
8. **Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None**
9. **Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None**
10. **Did all containers arrive in good condition (unbroken)? YES...NO...NA**
11. **Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA**
12. **Did all container labels and tags agree with custody papers? YES...NO...NA**

13a. **Were VOA vials received? YES...NO...NA**

b. **Was there any observable headspace present in any VOA vial? YES...NO...NA**

14. **Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____**

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. **On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NA...NA**

b. **Did the bottle labels indicate that the correct preservatives were used YES...NO...NA**

If preservation in-house was needed, record standard ID of preservative used here_____

16. **Was residual chlorine present? YES...NO...NA**

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. **Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA**
18. **Did you sign the custody papers in the appropriate place? YES...NO...NA**
19. **Were correct containers used for the analysis requested? YES...NO...NA**
20. **Was sufficient amount of sample sent in each container? YES...NO...NA**

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. **Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____**

BIS = Broken in shipment

End of Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

Client: Triad Env. Consultants (6921)
Address: 207 Donelson Pike, Suite 200
City, State, Zip: Nashville TN 37214
Client Invoice Contact: Kim Browers
Client Project Mgr: Chris Scott
Client Telephone#: (615) 889-6888 Fax: (615) 889-4004
Sampler Name (Print): Chris Scott
SamplerSignature: [signature]

TA Account #: 488472 PO #: 07-ELM01-01
Invoice to: Triad Env. Consultants (6921)
Report to: Chris Scott
Project Name: Elmco
Facility ID: 07-Elm01-01
Site Address:
City,State,Zip: Tennessee
Regulatory District (CA):

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B Volatile Organics	NSC1000	RUSH TAT (Pre Schedule) *
EV-6 19-20	3/10/09	8:20	1	✓										✓					✓		✓	01	
EV-7 19-20	3/10/09	1710	1	✓										✓					✓		✓	2	
EV-8 21	3/11/09	830	1	✓										✓					✓		✓	3	
EV-9 9-10	3/11/09	1115	1	✓										✓					✓		✓	4	
EV-9 25	3/11/09	1130	1	✓										✓					✓		✓	5	
EV-10 5	3/11/09	1330	1	✓										✓					✓		✓	6	
EV-10 10	3/11/09	1335	1	✓										✓					✓		✓	7	
EV-11 16	3/11/09	1625	1	✓										✓					✓		✓	8	
EV-8 8-9	3/11/09	810	1	✓										✓					✓		✓	9	

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: *BO # 14066*

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
[signature]	3/12/09	1301						

Shipped Via:
Received for TestAmerica by: [signature] Date: 3/12/09 Time: 1300
Shipped Via:
Temperature Upon Receipt: 5°C
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (Please Circle One): Level 2 Level 3 Level 4 Site Specific
(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)
Date Due of Report:

Appendix 3

ERM Vacuum Extraction Analytical Data

October 2008 Laboratory Report

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228

Brentwood, TN 37027

Report Summary

Friday October 17, 2008

Report Number: L369938
Samples Received: 10/14/08
Client Project: 0085010

Description: Vacuum Truck

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: John Hawkins

John Hawkins, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ENVIRONMENTAL
SCIENCE CORP.

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Mt. Juliet, TN 37122
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Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-01

Date Received : October 14, 2008
Description : Vacuum Truck

Site ID : EYGPTIAN LACQUER

Sample ID : 85010-05

Project # : 0085010

Collected By : Ron Taylor
Collection Date : 10/14/08 08:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	50000	120000	19000000	45000000	TO-15	10/16/08	40000
Allyl chloride	107-05-1	76.53	800.	2500	< 800	< 2500	TO-15	10/16/08	4000
Benzene	71-43-2	78.1	800.	2600	< 800	< 2600	TO-15	10/16/08	4000
Benzyl Chloride	100-44-7	127	800.	4200	< 800	< 4200	TO-15	10/16/08	4000
Bromodichloromethane	75-27-4	164	800.	5400	< 800	< 5400	TO-15	10/16/08	4000
Bromoform	75-25-2	253	2400	25000	< 2400	< 25000	TO-15	10/16/08	4000
Bromomethane	74-83-9	94.9	800.	3100	< 800	< 3100	TO-15	10/16/08	4000
1,3-Butadiene	106-99-0	54.1	8000	18000	< 8000	< 18000	TO-15	10/16/08	4000
tert-Butyl alcohol	75-65-0	74.12	800.	2400	< 800	< 2400	TO-15	10/16/08	4000
Carbon disulfide	75-15-0	76.1	800.	2500	< 800	< 2500	TO-15	10/16/08	4000
Carbon tetrachloride	56-23-5	154	800.	5000	< 800	< 5000	TO-15	10/16/08	4000
Chlorobenzene	108-90-7	113	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
Chloroethane	75-00-3	64.5	800.	2100	< 800	< 2100	TO-15	10/16/08	4000
Chloroform	67-66-3	119	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Chloromethane	74-87-3	50.5	800.	1700	< 800	< 1700	TO-15	10/16/08	4000
2-Chlorotoluene	95-49-8	126	800.	4100	< 800	< 4100	TO-15	10/16/08	4000
Cyclohexane	110-82-7	84.2	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
Dibromochloromethane	124-48-1	208	800.	6800	< 800	< 6800	TO-15	10/16/08	4000
1,2-Dibromoethane	106-93-4	188	800.	6200	< 800	< 6200	TO-15	10/16/08	4000
1,2-Dichlorobenzene	95-50-1	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,3-Dichlorobenzene	541-73-1	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,4-Dichlorobenzene	106-46-7	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,2-Dichloroethane	107-06-2	99	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,1-Dichloroethane	75-34-3	98	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,1-Dichloroethene	75-35-4	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
cis-1,2-Dichloroethene	156-59-2	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
trans-1,2-Dichloroethene	156-60-5	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,2-Dichloropropane	78-87-5	113	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
cis-1,3-Dichloropropene	10061-01-5	111	800.	3600	< 800	< 3600	TO-15	10/16/08	4000
trans-1,3-Dichloropropene	10061-02-6	111	800.	3600	< 800	< 3600	TO-15	10/16/08	4000
1,4-Dioxane	123-91-1	88.1	800.	2900	< 800	< 2900	TO-15	10/16/08	4000
Ethanol	64-17-5	46.1	2520	4800	6400	12000	TO-15	10/16/08	4000
Ethylbenzene	100-41-4	106	800.	3500	12000	52000	TO-15	10/16/08	4000
4-Ethyltoluene	622-96-8	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Trichlorofluoromethane	75-69-4	137.4	800.	4500	< 800	< 4500	TO-15	10/16/08	4000
Dichlorodifluoromethane	75-71-8	120.92	800.	4000	< 800	< 4000	TO-15	10/16/08	4000
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	800.	6100	< 800	< 6100	TO-15	10/16/08	4000
1,2-Dichlorotetrafluoroethane	76-14-2	171	800.	5600	< 800	< 5600	TO-15	10/16/08	4000
Heptane	142-82-5	100	800.	3300	< 800	< 3300	TO-15	10/16/08	4000
Hexachloro-1,3-butadiene	87-68-3	261	2520	27000	< 2500	< 27000	TO-15	10/16/08	4000
n-Hexane	110-54-3	86.2	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
Isopropylbenzene	98-82-8	120.2	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Methylene Chloride	75-09-2	84.9	800.	2800	< 800	< 2800	TO-15	10/16/08	4000

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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.
Reported: 10/17/08 16:01 Printed: 10/17/08 16:01
L369938-01 (TO-15TIC) - Target compounds too high to run at a lower dilution.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-01

Site ID : EYGPTIAN LACQUER

Project # : 0085010

Date Received : October 14, 2008
Description : Vacuum Truck

Sample ID : 85010-05

Collected By : Ron Taylor
Collection Date : 10/14/08 08:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	5000	20000	< 5000	< 20000	TO-15	10/16/08	4000
Methyl Ethyl Ketone	78-93-3	72.1	5000	15000	14000	41000	TO-15	10/16/08	4000
Methyl Isobutyl Ketone	108-10-1	100.1	5000	20000	< 5000	< 20000	TO-15	10/16/08	4000
Methyl methacrylate	80-62-6	100.12	800.	3300	< 800	< 3300	TO-15	10/16/08	4000
MTBE	1634-04-4	88.1	800.	2900	< 800	< 2900	TO-15	10/16/08	4000
Naphthalene	91-20-3	128	2520	13000	< 2500	< 13000	TO-15	10/16/08	4000
2-Propanol	67-63-0	60.1	5000	12000	9000	22000	TO-15	10/16/08	4000
Propene	115-07-1	42.1	1600	2800	< 1600	< 2800	TO-15	10/16/08	4000
Styrene	100-42-5	104	800.	3400	< 800	< 3400	TO-15	10/16/08	4000
1,1,2,2-Tetrachloroethane	79-34-5	168	800.	5500	< 800	< 5500	TO-15	10/16/08	4000
Tetrachloroethylene	127-18-4	166	800.	5400	< 800	< 5400	TO-15	10/16/08	4000
Tetrahydrofuran	109-99-9	72.1	800.	2400	< 800	< 2400	TO-15	10/16/08	4000
Toluene	108-88-3	92.1	8000	30000	6600000	25000000	TO-15	10/16/08	40000
1,2,4-Trichlorobenzene	120-82-1	181	2520	19000	< 2500	< 19000	TO-15	10/16/08	4000
1,1,1-Trichloroethane	71-55-6	133	800.	4400	< 800	< 4400	TO-15	10/16/08	4000
1,1,2-Trichloroethane	79-00-5	133	800.	4400	< 800	< 4400	TO-15	10/16/08	4000
Trichloroethylene	79-01-6	131	800.	4300	< 800	< 4300	TO-15	10/16/08	4000
1,2,4-Trimethylbenzene	95-63-6	120	800.	3900	1200	5900	TO-15	10/16/08	4000
1,3,5-Trimethylbenzene	108-67-8	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
2,2,4-Trimethylpentane	540-84-1	114.22	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
Vinyl chloride	75-01-4	62.5	800.	2000	< 800	< 2000	TO-15	10/16/08	4000
Vinyl Bromide	593-60-2	106.95	800.	3500	< 800	< 3500	TO-15	10/16/08	4000
Vinyl acetate	108-05-4	86.1	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
m&p-Xylene	1330-20-7	106	1600	6900	29000	130000	TO-15	10/16/08	4000
o-Xylene	95-47-6	106	800.	3500	6200	27000	TO-15	10/16/08	4000
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	830000	2100000	8700000	TO-15	10/16/08	4000

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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.
Reported: 10/17/08 16:01 Printed: 10/17/08 16:01
L369938-01 (TO-15TIC) - Target compounds too high to run at a lower dilution.

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-02

Date Received : October 14, 2008
Description : Vacuum Truck

Site ID : EYGPTIAN LACQUER

Sample ID : 85010-06

Project # : 0085010

Collected By : Ron Taylor
Collection Date : 10/14/08 10:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	50000	120000	5700000	14000000	TO-15	10/16/08	40000
Allyl chloride	107-05-1	76.53	800.	2500	< 800	< 2500	TO-15	10/16/08	4000
Benzene	71-43-2	78.1	800.	2600	< 800	< 2600	TO-15	10/16/08	4000
Benzyl Chloride	100-44-7	127	800.	4200	< 800	< 4200	TO-15	10/16/08	4000
Bromodichloromethane	75-27-4	164	800.	5400	< 800	< 5400	TO-15	10/16/08	4000
Bromoform	75-25-2	253	2400	25000	< 2400	< 25000	TO-15	10/16/08	4000
Bromomethane	74-83-9	94.9	800.	3100	< 800	< 3100	TO-15	10/16/08	4000
1,3-Butadiene	106-99-0	54.1	8000	18000	< 8000	< 18000	TO-15	10/16/08	4000
tert-Butyl alcohol	75-65-0	74.12	800.	2400	< 800	< 2400	TO-15	10/16/08	4000
Carbon disulfide	75-15-0	76.1	800.	2500	< 800	< 2500	TO-15	10/16/08	4000
Carbon tetrachloride	56-23-5	154	800.	5000	< 800	< 5000	TO-15	10/16/08	4000
Chlorobenzene	108-90-7	113	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
Chloroethane	75-00-3	64.5	800.	2100	< 800	< 2100	TO-15	10/16/08	4000
Chloroform	67-66-3	119	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Chloromethane	74-87-3	50.5	800.	1700	< 800	< 1700	TO-15	10/16/08	4000
2-Chlorotoluene	95-49-8	126	800.	4100	< 800	< 4100	TO-15	10/16/08	4000
Cyclohexane	110-82-7	84.2	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
Dibromochloromethane	124-48-1	208	800.	6800	< 800	< 6800	TO-15	10/16/08	4000
1,2-Dibromoethane	106-93-4	188	800.	6200	< 800	< 6200	TO-15	10/16/08	4000
1,2-Dichlorobenzene	95-50-1	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,3-Dichlorobenzene	541-73-1	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,4-Dichlorobenzene	106-46-7	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,2-Dichloroethane	107-06-2	99	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,1-Dichloroethane	75-34-3	98	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,1-Dichloroethene	75-35-4	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
cis-1,2-Dichloroethene	156-59-2	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
trans-1,2-Dichloroethene	156-60-5	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,2-Dichloropropane	78-87-5	113	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
cis-1,3-Dichloropropene	10061-01-5	111	800.	3600	< 800	< 3600	TO-15	10/16/08	4000
trans-1,3-Dichloropropene	10061-02-6	111	800.	3600	< 800	< 3600	TO-15	10/16/08	4000
1,4-Dioxane	123-91-1	88.1	800.	2900	< 800	< 2900	TO-15	10/16/08	4000
Ethanol	64-17-5	46.1	2520	4800	4000	7500	TO-15	10/16/08	4000
Ethylbenzene	100-41-4	106	800.	3500	2500	11000	TO-15	10/16/08	4000
4-Ethyltoluene	622-96-8	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Trichlorofluoromethane	75-69-4	137.4	800.	4500	< 800	< 4500	TO-15	10/16/08	4000
Dichlorodifluoromethane	75-71-8	120.92	800.	4000	< 800	< 4000	TO-15	10/16/08	4000
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	800.	6100	< 800	< 6100	TO-15	10/16/08	4000
1,2-Dichlorotetrafluoroethane	76-14-2	171	800.	5600	< 800	< 5600	TO-15	10/16/08	4000
Heptane	142-82-5	100	800.	3300	< 800	< 3300	TO-15	10/16/08	4000
Hexachloro-1,3-butadiene	87-68-3	261	2520	27000	< 2500	< 27000	TO-15	10/16/08	4000
n-Hexane	110-54-3	86.2	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
Isopropylbenzene	98-82-8	120.2	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Methylene Chloride	75-09-2	84.9	800.	2800	< 800	< 2800	TO-15	10/16/08	4000

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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SCIENCE CORP.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-02

Site ID : EYGPTIAN LACQUER

Project # : 0085010

Date Received : October 14, 2008
Description : Vacuum Truck

Sample ID : 85010-06

Collected By : Ron Taylor
Collection Date : 10/14/08 10:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	5000	20000	< 5000	< 20000	TO-15	10/16/08	4000
Methyl Ethyl Ketone	78-93-3	72.1	5000	15000	< 5000	< 15000	TO-15	10/16/08	4000
Methyl Isobutyl Ketone	108-10-1	100.1	5000	20000	< 5000	< 20000	TO-15	10/16/08	4000
Methyl methacrylate	80-62-6	100.12	800.	3300	< 800	< 3300	TO-15	10/16/08	4000
MTBE	1634-04-4	88.1	800.	2900	< 800	< 2900	TO-15	10/16/08	4000
Naphthalene	91-20-3	128	2520	13000	< 2500	< 13000	TO-15	10/16/08	4000
2-Propanol	67-63-0	60.1	5000	12000	< 5000	< 12000	TO-15	10/16/08	4000
Propene	115-07-1	42.1	1600	2800	< 1600	< 2800	TO-15	10/16/08	4000
Styrene	100-42-5	104	800.	3400	< 800	< 3400	TO-15	10/16/08	4000
1,1,2,2-Tetrachloroethane	79-34-5	168	800.	5500	< 800	< 5500	TO-15	10/16/08	4000
Tetrachloroethylene	127-18-4	166	800.	5400	< 800	< 5400	TO-15	10/16/08	4000
Tetrahydrofuran	109-99-9	72.1	800.	2400	< 800	< 2400	TO-15	10/16/08	4000
Toluene	108-88-3	92.1	8000	30000	1800000	6800000	TO-15	10/16/08	40000
1,2,4-Trichlorobenzene	120-82-1	181	2520	19000	< 2500	< 19000	TO-15	10/16/08	4000
1,1,1-Trichloroethane	71-55-6	133	800.	4400	< 800	< 4400	TO-15	10/16/08	4000
1,1,2-Trichloroethane	79-00-5	133	800.	4400	< 800	< 4400	TO-15	10/16/08	4000
Trichloroethylene	79-01-6	131	800.	4300	< 800	< 4300	TO-15	10/16/08	4000
1,2,4-Trimethylbenzene	95-63-6	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
1,3,5-Trimethylbenzene	108-67-8	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
2,2,4-Trimethylpentane	540-84-1	114.22	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
Vinyl chloride	75-01-4	62.5	800.	2000	< 800	< 2000	TO-15	10/16/08	4000
Vinyl Bromide	593-60-2	106.95	800.	3500	< 800	< 3500	TO-15	10/16/08	4000
Vinyl acetate	108-05-4	86.1	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
m&p-Xylene	1330-20-7	106	1600	6900	7100	31000	TO-15	10/16/08	4000
o-Xylene	95-47-6	106	800.	3500	1600	6900	TO-15	10/16/08	4000
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	830000	810000	3300000	TO-15	10/16/08	4000

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-03

Date Received : October 14, 2008
Description : Vacuum Truck

Site ID : EYGPTIAN LACQUER

Sample ID : 85010-07

Project # : 0085010

Collected By : Ron Taylor
Collection Date : 10/14/08 12:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	50000	120000	11000000	26000000	TO-15	10/16/08	40000
Allyl chloride	107-05-1	76.53	800.	2500	< 800	< 2500	TO-15	10/16/08	4000
Benzene	71-43-2	78.1	800.	2600	< 800	< 2600	TO-15	10/16/08	4000
Benzyl Chloride	100-44-7	127	800.	4200	< 800	< 4200	TO-15	10/16/08	4000
Bromodichloromethane	75-27-4	164	800.	5400	< 800	< 5400	TO-15	10/16/08	4000
Bromoform	75-25-2	253	2400	25000	< 2400	< 25000	TO-15	10/16/08	4000
Bromomethane	74-83-9	94.9	800.	3100	< 800	< 3100	TO-15	10/16/08	4000
1,3-Butadiene	106-99-0	54.1	8000	18000	< 8000	< 18000	TO-15	10/16/08	4000
tert-Butyl alcohol	75-65-0	74.12	800.	2400	< 800	< 2400	TO-15	10/16/08	4000
Carbon disulfide	75-15-0	76.1	800.	2500	< 800	< 2500	TO-15	10/16/08	4000
Carbon tetrachloride	56-23-5	154	800.	5000	< 800	< 5000	TO-15	10/16/08	4000
Chlorobenzene	108-90-7	113	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
Chloroethane	75-00-3	64.5	800.	2100	< 800	< 2100	TO-15	10/16/08	4000
Chloroform	67-66-3	119	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Chloromethane	74-87-3	50.5	800.	1700	< 800	< 1700	TO-15	10/16/08	4000
2-Chlorotoluene	95-49-8	126	800.	4100	< 800	< 4100	TO-15	10/16/08	4000
Cyclohexane	110-82-7	84.2	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
Dibromochloromethane	124-48-1	208	800.	6800	< 800	< 6800	TO-15	10/16/08	4000
1,2-Dibromoethane	106-93-4	188	800.	6200	< 800	< 6200	TO-15	10/16/08	4000
1,2-Dichlorobenzene	95-50-1	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,3-Dichlorobenzene	541-73-1	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,4-Dichlorobenzene	106-46-7	147	800.	4800	< 800	< 4800	TO-15	10/16/08	4000
1,2-Dichloroethane	107-06-2	99	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,1-Dichloroethane	75-34-3	98	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,1-Dichloroethene	75-35-4	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
cis-1,2-Dichloroethene	156-59-2	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
trans-1,2-Dichloroethene	156-60-5	96.9	800.	3200	< 800	< 3200	TO-15	10/16/08	4000
1,2-Dichloropropane	78-87-5	113	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
cis-1,3-Dichloropropene	10061-01-5	111	800.	3600	< 800	< 3600	TO-15	10/16/08	4000
trans-1,3-Dichloropropene	10061-02-6	111	800.	3600	< 800	< 3600	TO-15	10/16/08	4000
1,4-Dioxane	123-91-1	88.1	800.	2900	< 800	< 2900	TO-15	10/16/08	4000
Ethanol	64-17-5	46.1	2520	4800	6200	12000	TO-15	10/16/08	4000
Ethylbenzene	100-41-4	106	800.	3500	4400	19000	TO-15	10/16/08	4000
4-Ethyltoluene	622-96-8	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Trichlorofluoromethane	75-69-4	137.4	800.	4500	< 800	< 4500	TO-15	10/16/08	4000
Dichlorodifluoromethane	75-71-8	120.92	800.	4000	< 800	< 4000	TO-15	10/16/08	4000
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	800.	6100	< 800	< 6100	TO-15	10/16/08	4000
1,2-Dichlorotetrafluoroethane	76-14-2	171	800.	5600	< 800	< 5600	TO-15	10/16/08	4000
Heptane	142-82-5	100	800.	3300	< 800	< 3300	TO-15	10/16/08	4000
Hexachloro-1,3-butadiene	87-68-3	261	2520	27000	< 2500	< 27000	TO-15	10/16/08	4000
n-Hexane	110-54-3	86.2	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
Isopropylbenzene	98-82-8	120.2	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
Methylene Chloride	75-09-2	84.9	800.	2800	< 800	< 2800	TO-15	10/16/08	4000

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-03

Date Received : October 14, 2008
Description : Vacuum Truck

Site ID : EYGPTIAN LACQUER

Sample ID : 85010-07

Project # : 0085010

Collected By : Ron Taylor
Collection Date : 10/14/08 12:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	5000	20000	< 5000	< 20000	TO-15	10/16/08	4000
Methyl Ethyl Ketone	78-93-3	72.1	5000	15000	8800	26000	TO-15	10/16/08	4000
Methyl Isobutyl Ketone	108-10-1	100.1	5000	20000	< 5000	< 20000	TO-15	10/16/08	4000
Methyl methacrylate	80-62-6	100.12	800.	3300	< 800	< 3300	TO-15	10/16/08	4000
MTBE	1634-04-4	88.1	800.	2900	< 800	< 2900	TO-15	10/16/08	4000
Naphthalene	91-20-3	128	2520	13000	< 2500	< 13000	TO-15	10/16/08	4000
2-Propanol	67-63-0	60.1	5000	12000	6300	15000	TO-15	10/16/08	4000
Propene	115-07-1	42.1	1600	2800	< 1600	< 2800	TO-15	10/16/08	4000
Styrene	100-42-5	104	800.	3400	< 800	< 3400	TO-15	10/16/08	4000
1,1,2,2-Tetrachloroethane	79-34-5	168	800.	5500	< 800	< 5500	TO-15	10/16/08	4000
Tetrachloroethylene	127-18-4	166	800.	5400	< 800	< 5400	TO-15	10/16/08	4000
Tetrahydrofuran	109-99-9	72.1	800.	2400	< 800	< 2400	TO-15	10/16/08	4000
Toluene	108-88-3	92.1	8000	30000	3400000	13000000	TO-15	10/16/08	40000
1,2,4-Trichlorobenzene	120-82-1	181	2520	19000	< 2500	< 19000	TO-15	10/16/08	4000
1,1,1-Trichloroethane	71-55-6	133	800.	4400	< 800	< 4400	TO-15	10/16/08	4000
1,1,2-Trichloroethane	79-00-5	133	800.	4400	< 800	< 4400	TO-15	10/16/08	4000
Trichloroethylene	79-01-6	131	800.	4300	< 800	< 4300	TO-15	10/16/08	4000
1,2,4-Trimethylbenzene	95-63-6	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
1,3,5-Trimethylbenzene	108-67-8	120	800.	3900	< 800	< 3900	TO-15	10/16/08	4000
2,2,4-Trimethylpentane	540-84-1	114.22	800.	3700	< 800	< 3700	TO-15	10/16/08	4000
Vinyl chloride	75-01-4	62.5	800.	2000	< 800	< 2000	TO-15	10/16/08	4000
Vinyl Bromide	593-60-2	106.95	800.	3500	< 800	< 3500	TO-15	10/16/08	4000
Vinyl acetate	108-05-4	86.1	800.	2800	< 800	< 2800	TO-15	10/16/08	4000
m&p-Xylene	1330-20-7	106	1600	6900	12000	52000	TO-15	10/16/08	4000
o-Xylene	95-47-6	106	800.	3500	2600	11000	TO-15	10/16/08	4000
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	830000	1400000	5800000	TO-15	10/16/08	4000

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-04

Date Received : October 14, 2008
Description : Vacuum Truck

Site ID : EYGPTIAN LACQUER

Sample ID : 85010-08

Project # : 0085010

Collected By : Ron Taylor
Collection Date : 10/14/08 14:04

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	1.25	3.00	23.	55.	TO-15	10/16/08	1
Allyl chloride	107-05-1	76.53	0.200	0.630	< 0.20	< 0.63	TO-15	10/16/08	1
Benzene	71-43-2	78.1	0.200	0.640	< 0.20	< 0.64	TO-15	10/16/08	1
Benzyl Chloride	100-44-7	127	0.200	1.00	< 0.20	< 1.0	TO-15	10/16/08	1
Bromodichloromethane	75-27-4	164	0.200	1.30	< 0.20	< 1.3	TO-15	10/16/08	1
Bromoform	75-25-2	253	0.600	6.20	< 0.60	< 6.2	TO-15	10/16/08	1
Bromomethane	74-83-9	94.9	0.200	0.780	< 0.20	< 0.78	TO-15	10/16/08	1
1,3-Butadiene	106-99-0	54.1	2.00	4.40	< 2.0	< 4.4	TO-15	10/16/08	1
tert-Butyl alcohol	75-65-0	74.12	0.200	0.610	< 0.20	< 0.61	TO-15	10/16/08	1
Carbon disulfide	75-15-0	76.1	0.200	0.620	< 0.20	< 0.62	TO-15	10/16/08	1
Carbon tetrachloride	56-23-5	154	0.200	1.30	< 0.20	< 1.3	TO-15	10/16/08	1
Chlorobenzene	108-90-7	113	0.200	0.920	< 0.20	< 0.92	TO-15	10/16/08	1
Chloroethane	75-00-3	64.5	0.200	0.530	< 0.20	< 0.53	TO-15	10/16/08	1
Chloroform	67-66-3	119	0.200	0.970	< 0.20	< 0.97	TO-15	10/16/08	1
Chloromethane	74-87-3	50.5	0.200	0.410	0.56	1.2	TO-15	10/16/08	1
2-Chlorotoluene	95-49-8	126	0.200	1.00	< 0.20	< 1.0	TO-15	10/16/08	1
Cyclohexane	110-82-7	84.2	0.200	0.690	< 0.20	< 0.69	TO-15	10/16/08	1
Dibromochloromethane	124-48-1	208	0.200	1.70	< 0.20	< 1.7	TO-15	10/16/08	1
1,2-Dibromoethane	106-93-4	188	0.200	1.50	< 0.20	< 1.5	TO-15	10/16/08	1
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	< 0.20	< 1.2	TO-15	10/16/08	1
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	< 0.20	< 1.2	TO-15	10/16/08	1
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	< 0.20	< 1.2	TO-15	10/16/08	1
1,2-Dichloroethane	107-06-2	99	0.200	0.810	< 0.20	< 0.81	TO-15	10/16/08	1
1,1-Dichloroethane	75-34-3	98	0.200	0.800	< 0.20	< 0.80	TO-15	10/16/08	1
1,1-Dichloroethene	75-35-4	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	10/16/08	1
cis-1,2-Dichloroethene	156-59-2	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	10/16/08	1
trans-1,2-Dichloroethene	156-60-5	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	10/16/08	1
1,2-Dichloropropane	78-87-5	113	0.200	0.920	< 0.20	< 0.92	TO-15	10/16/08	1
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.910	< 0.20	< 0.91	TO-15	10/16/08	1
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.910	< 0.20	< 0.91	TO-15	10/16/08	1
1,4-Dioxane	123-91-1	88.1	0.200	0.720	< 0.20	< 0.72	TO-15	10/16/08	1
Ethanol	64-17-5	46.1	0.630	1.20	14.	26.	TO-15	10/16/08	1
Ethylbenzene	100-41-4	106	0.200	0.870	< 0.20	< 0.87	TO-15	10/16/08	1
4-Ethyltoluene	622-96-8	120	0.200	0.980	< 0.20	< 0.98	TO-15	10/16/08	1
Trichlorofluoromethane	75-69-4	137.4	0.200	1.10	0.23	1.3	TO-15	10/16/08	1
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.990	0.55	2.7	TO-15	10/16/08	1
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.200	1.50	< 0.20	< 1.5	TO-15	10/16/08	1
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	< 0.20	< 1.4	TO-15	10/16/08	1
Heptane	142-82-5	100	0.200	0.820	0.30	1.2	TO-15	10/16/08	1
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.70	< 0.63	< 6.7	TO-15	10/16/08	1
n-Hexane	110-54-3	86.2	0.200	0.710	< 0.20	< 0.71	TO-15	10/16/08	1
Isopropylbenzene	98-82-8	120.2	0.200	0.980	< 0.20	< 0.98	TO-15	10/16/08	1
Methylene Chloride	75-09-2	84.9	0.200	0.690	0.69	2.4	TO-15	10/16/08	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-04

Date Received : October 14, 2008
Description : Vacuum Truck

Site ID : EYGPTIAN LACQUER

Sample ID : 85010-08

Project # : 0085010

Collected By : Ron Taylor
Collection Date : 10/14/08 14:04

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	1.25	5.10	< 1.3	< 5.1	TO-15	10/16/08	1
Methyl Ethyl Ketone	78-93-3	72.1	1.25	3.70	< 1.3	< 3.7	TO-15	10/16/08	1
Methyl Isobutyl Ketone	108-10-1	100.1	1.25	5.10	< 1.3	< 5.1	TO-15	10/16/08	1
Methyl methacrylate	80-62-6	100.12	0.200	0.820	< 0.20	< 0.82	TO-15	10/16/08	1
MTBE	1634-04-4	88.1	0.200	0.720	< 0.20	< 0.72	TO-15	10/16/08	1
Naphthalene	91-20-3	128	0.630	3.30	< 0.63	< 3.3	TO-15	10/16/08	1
2-Propanol	67-63-0	60.1	1.25	3.10	3.5	8.6	TO-15	10/16/08	1
Propene	115-07-1	42.1	0.400	0.690	< 0.40	< 0.69	TO-15	10/16/08	1
Styrene	100-42-5	104	0.200	0.850	< 0.20	< 0.85	TO-15	10/16/08	1
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.40	< 0.20	< 1.4	TO-15	10/16/08	1
Tetrachloroethylene	127-18-4	166	0.200	1.40	< 0.20	< 1.4	TO-15	10/16/08	1
Tetrahydrofuran	109-99-9	72.1	0.200	0.590	< 0.20	< 0.59	TO-15	10/16/08	1
Toluene	108-88-3	92.1	0.200	0.750	1.3	4.9	TO-15	10/16/08	1
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.70	< 0.63	< 4.7	TO-15	10/16/08	1
1,1,1-Trichloroethane	71-55-6	133	0.200	1.10	< 0.20	< 1.1	TO-15	10/16/08	1
1,1,2-Trichloroethane	79-00-5	133	0.200	1.10	< 0.20	< 1.1	TO-15	10/16/08	1
Trichloroethylene	79-01-6	131	0.200	1.10	< 0.20	< 1.1	TO-15	10/16/08	1
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.980	< 0.20	< 0.98	TO-15	10/16/08	1
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.980	< 0.20	< 0.98	TO-15	10/16/08	1
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.930	< 0.20	< 0.93	TO-15	10/16/08	1
Vinyl chloride	75-01-4	62.5	0.200	0.510	< 0.20	< 0.51	TO-15	10/16/08	1
Vinyl Bromide	593-60-2	106.95	0.200	0.870	< 0.20	< 0.87	TO-15	10/16/08	1
Vinyl acetate	108-05-4	86.1	0.200	0.700	< 0.20	< 0.70	TO-15	10/16/08	1
m&p-Xylene	1330-20-7	106	0.400	1.70	< 0.40	< 1.7	TO-15	10/16/08	1
o-Xylene	95-47-6	106	0.200	0.870	< 0.20	< 0.87	TO-15	10/16/08	1
TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	210.	< 50.	< 210	TO-15	10/16/08	1

RDL1 = ppbv , RDL2 = ug/m3
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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-05

Date Received : October 14, 2008
Description : Vacuum Truck

Site ID : EYGPTIAN LACQUER

Sample ID : 85010-09

Project # : 0085010

Collected By : Ron Taylor
Collection Date : 10/14/08 14:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	50000	120000	2400000	5700000	TO-15	10/16/08	40000
Allyl chloride	107-05-1	76.53	400.	1300	< 400	< 1300	TO-15	10/16/08	2000
Benzene	71-43-2	78.1	400.	1300	< 400	< 1300	TO-15	10/16/08	2000
Benzyl Chloride	100-44-7	127	400.	2100	< 400	< 2100	TO-15	10/16/08	2000
Bromodichloromethane	75-27-4	164	400.	2700	< 400	< 2700	TO-15	10/16/08	2000
Bromoform	75-25-2	253	1200	12000	< 1200	< 12000	TO-15	10/16/08	2000
Bromomethane	74-83-9	94.9	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
1,3-Butadiene	106-99-0	54.1	4000	8900	< 4000	< 8900	TO-15	10/16/08	2000
tert-Butyl alcohol	75-65-0	74.12	400.	1200	< 400	< 1200	TO-15	10/16/08	2000
Carbon disulfide	75-15-0	76.1	400.	1200	< 400	< 1200	TO-15	10/16/08	2000
Carbon tetrachloride	56-23-5	154	400.	2500	< 400	< 2500	TO-15	10/16/08	2000
Chlorobenzene	108-90-7	113	400.	1800	< 400	< 1800	TO-15	10/16/08	2000
Chloroethane	75-00-3	64.5	400.	1100	< 400	< 1100	TO-15	10/16/08	2000
Chloroform	67-66-3	119	400.	1900	< 400	< 1900	TO-15	10/16/08	2000
Chloromethane	74-87-3	50.5	400.	830.	< 400	< 830	TO-15	10/16/08	2000
2-Chlorotoluene	95-49-8	126	400.	2100	< 400	< 2100	TO-15	10/16/08	2000
Cyclohexane	110-82-7	84.2	400.	1400	< 400	< 1400	TO-15	10/16/08	2000
Dibromochloromethane	124-48-1	208	400.	3400	< 400	< 3400	TO-15	10/16/08	2000
1,2-Dibromoethane	106-93-4	188	400.	3100	< 400	< 3100	TO-15	10/16/08	2000
1,2-Dichlorobenzene	95-50-1	147	400.	2400	< 400	< 2400	TO-15	10/16/08	2000
1,3-Dichlorobenzene	541-73-1	147	400.	2400	< 400	< 2400	TO-15	10/16/08	2000
1,4-Dichlorobenzene	106-46-7	147	400.	2400	< 400	< 2400	TO-15	10/16/08	2000
1,2-Dichloroethane	107-06-2	99	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
1,1-Dichloroethane	75-34-3	98	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
1,1-Dichloroethene	75-35-4	96.9	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
cis-1,2-Dichloroethene	156-59-2	96.9	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
trans-1,2-Dichloroethene	156-60-5	96.9	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
1,2-Dichloropropane	78-87-5	113	400.	1800	< 400	< 1800	TO-15	10/16/08	2000
cis-1,3-Dichloropropene	10061-01-5	111	400.	1800	< 400	< 1800	TO-15	10/16/08	2000
trans-1,3-Dichloropropene	10061-02-6	111	400.	1800	< 400	< 1800	TO-15	10/16/08	2000
1,4-Dioxane	123-91-1	88.1	400.	1400	< 400	< 1400	TO-15	10/16/08	2000
Ethanol	64-17-5	46.1	1260	2400	2900	5500	TO-15	10/16/08	2000
Ethylbenzene	100-41-4	106	400.	1700	2200	9500	TO-15	10/16/08	2000
4-Ethyltoluene	622-96-8	120	400.	2000	< 400	< 2000	TO-15	10/16/08	2000
Trichlorofluoromethane	75-69-4	137.4	400.	2200	< 400	< 2200	TO-15	10/16/08	2000
Dichlorodifluoromethane	75-71-8	120.92	400.	2000	< 400	< 2000	TO-15	10/16/08	2000
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	400.	3100	< 400	< 3100	TO-15	10/16/08	2000
1,2-Dichlorotetrafluoroethane	76-14-2	171	400.	2800	< 400	< 2800	TO-15	10/16/08	2000
Heptane	142-82-5	100	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
Hexachloro-1,3-butadiene	87-68-3	261	1260	13000	< 1300	< 13000	TO-15	10/16/08	2000
n-Hexane	110-54-3	86.2	400.	1400	< 400	< 1400	TO-15	10/16/08	2000
Isopropylbenzene	98-82-8	120.2	400.	2000	< 400	< 2000	TO-15	10/16/08	2000
Methylene Chloride	75-09-2	84.9	400.	1400	< 400	< 1400	TO-15	10/16/08	2000

RDL1 = ppbv , RDL2 = ug/m3
Note:
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L369938-05 (TO-15TIC) - Target compounds too high to run at a lower dilution.

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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

October 17, 2008

ESC Sample # : L369938-05

Site ID : EYGPTIAN LACQUER

Project # : 0085010

Date Received : October 14, 2008
Description : Vacuum Truck

Sample ID : 85010-09

Collected By : Ron Taylor
Collection Date : 10/14/08 14:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	2500	10000	< 2500	< 10000	TO-15	10/16/08	2000
Methyl Ethyl Ketone	78-93-3	72.1	2500	7400	4400	13000	TO-15	10/16/08	2000
Methyl Isobutyl Ketone	108-10-1	100.1	2500	10000	< 2500	< 10000	TO-15	10/16/08	2000
Methyl methacrylate	80-62-6	100.12	400.	1600	< 400	< 1600	TO-15	10/16/08	2000
MTBE	1634-04-4	88.1	400.	1400	< 400	< 1400	TO-15	10/16/08	2000
Naphthalene	91-20-3	128	1260	6600	< 1300	< 6600	TO-15	10/16/08	2000
2-Propanol	67-63-0	60.1	2500	6100	2900	7100	TO-15	10/16/08	2000
Propene	115-07-1	42.1	800.	1400	< 800	< 1400	TO-15	10/16/08	2000
Styrene	100-42-5	104	400.	1700	< 400	< 1700	TO-15	10/16/08	2000
1,1,2,2-Tetrachloroethane	79-34-5	168	400.	2700	< 400	< 2700	TO-15	10/16/08	2000
Tetrachloroethylene	127-18-4	166	400.	2700	< 400	< 2700	TO-15	10/16/08	2000
Tetrahydrofuran	109-99-9	72.1	400.	1200	< 400	< 1200	TO-15	10/16/08	2000
Toluene	108-88-3	92.1	8000	30000	610000	2300000	TO-15	10/16/08	40000
1,2,4-Trichlorobenzene	120-82-1	181	1260	9300	< 1300	< 9300	TO-15	10/16/08	2000
1,1,1-Trichloroethane	71-55-6	133	400.	2200	< 400	< 2200	TO-15	10/16/08	2000
1,1,2-Trichloroethane	79-00-5	133	400.	2200	< 400	< 2200	TO-15	10/16/08	2000
Trichloroethylene	79-01-6	131	400.	2100	< 400	< 2100	TO-15	10/16/08	2000
1,2,4-Trimethylbenzene	95-63-6	120	400.	2000	< 400	< 2000	TO-15	10/16/08	2000
1,3,5-Trimethylbenzene	108-67-8	120	400.	2000	< 400	< 2000	TO-15	10/16/08	2000
2,2,4-Trimethylpentane	540-84-1	114.22	400.	1900	< 400	< 1900	TO-15	10/16/08	2000
Vinyl chloride	75-01-4	62.5	400.	1000	< 400	< 1000	TO-15	10/16/08	2000
Vinyl Bromide	593-60-2	106.95	400.	1700	< 400	< 1700	TO-15	10/16/08	2000
Vinyl acetate	108-05-4	86.1	400.	1400	< 400	< 1400	TO-15	10/16/08	2000
m&p-Xylene	1330-20-7	106	800.	3500	6100	26000	TO-15	10/16/08	2000
o-Xylene	95-47-6	106	400.	1700	1400	6100	TO-15	10/16/08	2000
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	410000	620000	2600000	TO-15	10/16/08	2000

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L369938-05 (TO-15TIC) - Target compounds too high to run at a lower dilution.

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L369938-01	WG388990	SAMP	Acetone	R503084	E
	WG388990	SAMP	Toluene	R503084	E
L369938-02	WG388990	SAMP	Acetone	R503084	E
	WG388990	SAMP	Toluene	R503084	E
L369938-03	WG388990	SAMP	Acetone	R503084	E
	WG388990	SAMP	Toluene	R503084	E
L369938-04	WG388990	SAMP	Acetone	R503084	E
L369938-05	WG388990	SAMP	Acetone	R503084	E
	WG388990	SAMP	Toluene	R503084	E

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/17/08 at 16:01:54

TSR Signing Reports: 341
R5 - Desired TAT

Sample: L369938-01 Account: ERM Received: 10/14/08 15:45 Due Date: 10/21/08 00:00 RPT Date: 10/17/08 16:01

Sample: L369938-02 Account: ERM Received: 10/14/08 15:45 Due Date: 10/21/08 00:00 RPT Date: 10/17/08 16:01

Sample: L369938-03 Account: ERM Received: 10/14/08 15:45 Due Date: 10/21/08 00:00 RPT Date: 10/17/08 16:01

Sample: L369938-04 Account: ERM Received: 10/14/08 15:45 Due Date: 10/21/08 00:00 RPT Date: 10/17/08 16:01

Sample: L369938-05 Account: ERM Received: 10/14/08 15:45 Due Date: 10/21/08 00:00 RPT Date: 10/17/08 16:01

ERM - Southeast, Inc.

7106 Crossroads Blvd Suite 228
Brentwood,TN 37027

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

2

Report to: Mr. Ed Ossi
Email: Ronald.Taylor@erm.com ed.ossi@erm.com

Project Description: Vacuum Truck
City/State Collected: Franklin, TN

Phone: (615) 373-3350
FAX:

Client Project #: 0085010
Lab Project #: ERM-85010

Collected by (print): Ron Taylor
Site/Facility ID#: EYGPTIAN LACQUER
P.O.#:

Collected by (signature):
Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: ERM (lab use only)
Template/Prelogin: T53966 P260308
Cooler #:
10-9-08 AH
Shipped Via: Courier

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TO-15TIC Summa							Remarks/Contaminant	Sample # (lab only)
~~E-05~~ 85010-05	Grab	Air	—	10/14/08	0800	1	X							Tedlar Bag - 1L	L369938-01
85010-06	Grab	Air	—	10/14/08	1000	1	X							Tedlar + Summa	-02
85010-07	Grab	Air	—	10/14/08	1200	1	X							Tedlar + Summa	-03
85010-08	Grab	Air	—	10/14/08	1400	1	X							Summa	-04
85010-09	Grab	Air	—	10/14/08	1400	1	X							Tedlar + Summa	-05

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:
* Please report full VOC List

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☒ CLT	Condition: (lab use only)
	10/14/08	1450			(ok)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4nb Bottles Received: 9	COC Seal Intact: ___Y ___N ✓NA
Relinquished by: (Signature)	Date: 10/14/08	Time: 1545	Received for lab by: (Signature)	Date: 10-14-08 Time: 1545	pH Checked: NCF:

December 2008 Laboratory Report

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Tax I.D. 62-0814289

Est. 1970

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228

Brentwood, TN 37027

Report Summary

Friday December 19, 2008

Report Number: L379847
Samples Received: 12/16/08
Client Project: 0085010-10

Description: Vacuum Truck

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Darren Reeder, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

December 19, 2008

ESC Sample # : L379847-01

Date Received : December 16, 2008
Description : Vacuum Truck

Site ID :

Sample ID : 85010-10

Project # : 0085010-10

Collected By :
Collection Date : 12/16/08 10:44

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	50000	120000	4600000	11000000	TO-15	12/18/08	40000
Allyl chloride	107-05-1	76.53	8000	25000	< 8000	< 25000	TO-15	12/18/08	40000
Benzene	71-43-2	78.1	8000	26000	< 8000	< 26000	TO-15	12/18/08	40000
Benzyl Chloride	100-44-7	127	8000	42000	< 8000	< 42000	TO-15	12/18/08	40000
Bromodichloromethane	75-27-4	164	8000	54000	< 8000	< 54000	TO-15	12/18/08	40000
Bromoform	75-25-2	253	24000	250000	< 24000	< 250000	TO-15	12/18/08	40000
Bromomethane	74-83-9	94.9	8000	31000	< 8000	< 31000	TO-15	12/18/08	40000
1,3-Butadiene	106-99-0	54.1	80000	180000	< 80000	< 180000	TO-15	12/18/08	40000
tert-Butyl alcohol	75-65-0	74.12	8000	24000	< 8000	< 24000	TO-15	12/18/08	40000
Carbon disulfide	75-15-0	76.1	8000	25000	< 8000	< 25000	TO-15	12/18/08	40000
Carbon tetrachloride	56-23-5	154	8000	50000	< 8000	< 50000	TO-15	12/18/08	40000
Chlorobenzene	108-90-7	113	8000	37000	< 8000	< 37000	TO-15	12/18/08	40000
Chloroethane	75-00-3	64.5	8000	21000	< 8000	< 21000	TO-15	12/18/08	40000
Chloroform	67-66-3	119	8000	39000	< 8000	< 39000	TO-15	12/18/08	40000
Chloromethane	74-87-3	50.5	8000	17000	< 8000	< 17000	TO-15	12/18/08	40000
2-Chlorotoluene	95-49-8	126	8000	41000	< 8000	< 41000	TO-15	12/18/08	40000
Cyclohexane	110-82-7	84.2	8000	28000	< 8000	< 28000	TO-15	12/18/08	40000
Dibromochloromethane	124-48-1	208	8000	68000	< 8000	< 68000	TO-15	12/18/08	40000
1,2-Dibromoethane	106-93-4	188	8000	62000	< 8000	< 62000	TO-15	12/18/08	40000
1,2-Dichlorobenzene	95-50-1	147	8000	48000	< 8000	< 48000	TO-15	12/18/08	40000
1,3-Dichlorobenzene	541-73-1	147	8000	48000	< 8000	< 48000	TO-15	12/18/08	40000
1,4-Dichlorobenzene	106-46-7	147	8000	48000	< 8000	< 48000	TO-15	12/18/08	40000
1,2-Dichloroethane	107-06-2	99	8000	32000	< 8000	< 32000	TO-15	12/18/08	40000
1,1-Dichloroethane	75-34-3	98	8000	32000	< 8000	< 32000	TO-15	12/18/08	40000
1,1-Dichloroethene	75-35-4	96.9	8000	32000	< 8000	< 32000	TO-15	12/18/08	40000
cis-1,2-Dichloroethene	156-59-2	96.9	8000	32000	< 8000	< 32000	TO-15	12/18/08	40000
trans-1,2-Dichloroethene	156-60-5	96.9	8000	32000	< 8000	< 32000	TO-15	12/18/08	40000
1,2-Dichloropropane	78-87-5	113	8000	37000	< 8000	< 37000	TO-15	12/18/08	40000
cis-1,3-Dichloropropene	10061-01-5	111	8000	36000	< 8000	< 36000	TO-15	12/18/08	40000
trans-1,3-Dichloropropene	10061-02-6	111	8000	36000	< 8000	< 36000	TO-15	12/18/08	40000
1,4-Dioxane	123-91-1	88.1	8000	29000	< 8000	< 29000	TO-15	12/18/08	40000
Ethanol	64-17-5	46.1	25200	48000	< 25000	< 48000	TO-15	12/18/08	40000
Ethylbenzene	100-41-4	106	8000	35000	< 8000	< 35000	TO-15	12/18/08	40000
4-Ethyltoluene	622-96-8	120	8000	39000	< 8000	< 39000	TO-15	12/18/08	40000
Trichlorofluoromethane	75-69-4	137.4	8000	45000	< 8000	< 45000	TO-15	12/18/08	40000
Dichlorodifluoromethane	75-71-8	120.92	8000	40000	< 8000	< 40000	TO-15	12/18/08	40000
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	8000	61000	< 8000	< 61000	TO-15	12/18/08	40000
1,2-Dichlorotetrafluoroethane	76-14-2	171	8000	56000	< 8000	< 56000	TO-15	12/18/08	40000
Heptane	142-82-5	100	8000	33000	< 8000	< 33000	TO-15	12/18/08	40000
Hexachloro-1,3-butadiene	87-68-3	261	25200	270000	< 25000	< 270000	TO-15	12/18/08	40000
n-Hexane	110-54-3	86.2	25200	89000	< 25000	< 89000	TO-15	12/18/08	40000
Isopropylbenzene	98-82-8	120.2	8000	39000	< 8000	< 39000	TO-15	12/18/08	40000
Methylene Chloride	75-09-2	84.9	8000	28000	< 8000	< 28000	TO-15	12/18/08	40000

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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Reported: 12/19/08 09:10 Printed: 12/19/08 09:10

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Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

December 19, 2008

ESC Sample # : L379847-01

Date Received : December 16, 2008
Description : Vacuum Truck

Site ID :

Sample ID : 85010-10

Project # : 0085010-10

Collected By :
Collection Date : 12/16/08 10:44

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	50000	200000	< 50000	< 200000	TO-15	12/18/08	40000
2-Butanone (MEK)	78-93-3	72.1	50000	150000	< 50000	< 150000	TO-15	12/18/08	40000
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	50000	200000	< 50000	< 200000	TO-15	12/18/08	40000
Methyl methacrylate	80-62-6	100.12	8000	33000	< 8000	< 33000	TO-15	12/18/08	40000
MTBE	1634-04-4	88.1	8000	29000	< 8000	< 29000	TO-15	12/18/08	40000
Naphthalene	91-20-3	128	8000	42000	< 8000	< 42000	TO-15	12/18/08	40000
2-Propanol	67-63-0	60.1	50000	120000	< 50000	< 120000	TO-15	12/18/08	40000
Propene	115-07-1	42.1	16000	28000	< 16000	< 28000	TO-15	12/18/08	40000
Styrene	100-42-5	104	8000	34000	< 8000	< 34000	TO-15	12/18/08	40000
1,1,2,2-Tetrachloroethane	79-34-5	168	8000	55000	< 8000	< 55000	TO-15	12/18/08	40000
Tetrachloroethylene	127-18-4	166	8000	54000	< 8000	< 54000	TO-15	12/18/08	40000
Tetrahydrofuran	109-99-9	72.1	8000	24000	< 8000	< 24000	TO-15	12/18/08	40000
Toluene	108-88-3	92.1	8000	30000	720000	2700000	TO-15	12/18/08	40000
1,2,4-Trichlorobenzene	120-82-1	181	25200	190000	< 25000	< 190000	TO-15	12/18/08	40000
1,1,1-Trichloroethane	71-55-6	133	8000	44000	< 8000	< 44000	TO-15	12/18/08	40000
1,1,2-Trichloroethane	79-00-5	133	8000	44000	< 8000	< 44000	TO-15	12/18/08	40000
Trichloroethylene	79-01-6	131	8000	43000	< 8000	< 43000	TO-15	12/18/08	40000
1,2,4-Trimethylbenzene	95-63-6	120	8000	39000	< 8000	< 39000	TO-15	12/18/08	40000
1,3,5-Trimethylbenzene	108-67-8	120	8000	39000	< 8000	< 39000	TO-15	12/18/08	40000
2,2,4-Trimethylpentane	540-84-1	114.22	8000	37000	< 8000	< 37000	TO-15	12/18/08	40000
Vinyl chloride	75-01-4	62.5	8000	20000	< 8000	< 20000	TO-15	12/18/08	40000
Vinyl Bromide	593-60-2	106.95	8000	35000	< 8000	< 35000	TO-15	12/18/08	40000
Vinyl acetate	108-05-4	86.1	8000	28000	< 8000	< 28000	TO-15	12/18/08	40000
m&p-Xylene	1330-20-7	106	16000	69000	< 16000	< 69000	TO-15	12/18/08	40000
o-Xylene	95-47-6	106	8000	35000	< 8000	< 35000	TO-15	12/18/08	40000
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	830000	< 2000000	< 8300000	TO-15	12/18/08	40000

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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Reported: 12/19/08 09:10 Printed: 12/19/08 09:10

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L379847-01	WG399077	SAMP	Acetone	R566485	E

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
12/19/08 at 09:10:52

TSR Signing Reports: 341
R5 - Desired TAT

Sample: L379847-01 Account: ERM Received: 12/16/08 14:30 Due Date: 12/23/08 00:00 RPT Date: 12/19/08 09:10

ERM - Southeast, Inc.

7106 Crossroads Blvd Suite 228
Brentwood,TN 37027

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Ed Ossi
Email: ed.ossi@erm.com
Project Description: Vacuum Truck
City/State Collected
Phone: (615) 373-3350
FAX:
Client Project #: 0085010-10
Lab Project #: ERM-85010
Collected by (print):
Site/Facility ID#:
P.O.#:
Collected by (signature):
Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: ERM (lab use only)
Template/Prelogin: T55159/ P266770
Cooler #: 12/10/08 JKC
Shipped Via: Courier

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TO-15TIC Summa	Remarks/Contaminant	Sample # (lab only)
85010-10	Grab	Air		12/16/08	1044	1	X		L379847-01

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☑ Courier ☐ ____	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb Bottles Received: 1	COC Seal Intact: ___Y ___N ✓ NA
Relinquished by: (Signature)	Date: 12/16/08	Time: 1430	Received for lab by: (Signature)	Date: 12.16.08 Time: 1430	pH Checked: NCF:

February 2009 Laboratory Report

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Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228

Brentwood, TN 37027

Report Summary

Friday February 13, 2009

Report Number: L387379
Samples Received: 02/10/09
Client Project:

Description: Vacuum Truck

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: John Hawkins

John Hawkins, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

February 13, 2009

ESC Sample # : L387379-01

Date Received : February 10, 2009
Description : Vacuum Truck

Site ID :

Sample ID : 85010-11

Project # :

Collected By :
Collection Date : 02/10/09 11:10

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	10000	24000	780000	1900000	TO-15	02/12/09	8000
Allyl chloride	107-05-1	76.53	1600	5000	< 1600	< 5000	TO-15	02/12/09	8000
Benzene	71-43-2	78.1	1600	5100	< 1600	< 5100	TO-15	02/12/09	8000
Benzyl Chloride	100-44-7	127	1600	8300	< 1600	< 8300	TO-15	02/12/09	8000
Bromodichloromethane	75-27-4	164	1600	11000	< 1600	< 11000	TO-15	02/12/09	8000
Bromoform	75-25-2	253	4800	50000	< 4800	< 50000	TO-15	02/12/09	8000
Bromomethane	74-83-9	94.9	1600	6200	< 1600	< 6200	TO-15	02/12/09	8000
1,3-Butadiene	106-99-0	54.1	16000	35000	< 16000	< 35000	TO-15	02/12/09	8000
tert-Butyl alcohol	75-65-0	74.12	1600	4900	< 1600	< 4900	TO-15	02/12/09	8000
Carbon disulfide	75-15-0	76.1	1600	5000	< 1600	< 5000	TO-15	02/12/09	8000
Carbon tetrachloride	56-23-5	154	1600	10000	< 1600	< 10000	TO-15	02/12/09	8000
Chlorobenzene	108-90-7	113	1600	7400	< 1600	< 7400	TO-15	02/12/09	8000
Chloroethane	75-00-3	64.5	1600	4200	< 1600	< 4200	TO-15	02/12/09	8000
Chloroform	67-66-3	119	1600	7800	< 1600	< 7800	TO-15	02/12/09	8000
Chloromethane	74-87-3	50.5	1600	3300	< 1600	< 3300	TO-15	02/12/09	8000
2-Chlorotoluene	95-49-8	126	1600	8200	< 1600	< 8200	TO-15	02/12/09	8000
Cyclohexane	110-82-7	84.2	1600	5500	< 1600	< 5500	TO-15	02/12/09	8000
Dibromochloromethane	124-48-1	208	1600	14000	< 1600	< 14000	TO-15	02/12/09	8000
1,2-Dibromoethane	106-93-4	188	1600	12000	< 1600	< 12000	TO-15	02/12/09	8000
1,2-Dichlorobenzene	95-50-1	147	1600	9600	< 1600	< 9600	TO-15	02/12/09	8000
1,3-Dichlorobenzene	541-73-1	147	1600	9600	< 1600	< 9600	TO-15	02/12/09	8000
1,4-Dichlorobenzene	106-46-7	147	1600	9600	< 1600	< 9600	TO-15	02/12/09	8000
1,2-Dichloroethane	107-06-2	99	1600	6500	< 1600	< 6500	TO-15	02/12/09	8000
1,1-Dichloroethane	75-34-3	98	1600	6400	< 1600	< 6400	TO-15	02/12/09	8000
1,1-Dichloroethene	75-35-4	96.9	1600	6300	< 1600	< 6300	TO-15	02/12/09	8000
cis-1,2-Dichloroethene	156-59-2	96.9	1600	6300	< 1600	< 6300	TO-15	02/12/09	8000
trans-1,2-Dichloroethene	156-60-5	96.9	1600	6300	< 1600	< 6300	TO-15	02/12/09	8000
1,2-Dichloropropane	78-87-5	113	1600	7400	< 1600	< 7400	TO-15	02/12/09	8000
cis-1,3-Dichloropropene	10061-01-5	111	1600	7300	< 1600	< 7300	TO-15	02/12/09	8000
trans-1,3-Dichloropropene	10061-02-6	111	1600	7300	< 1600	< 7300	TO-15	02/12/09	8000
1,4-Dioxane	123-91-1	88.1	1600	5800	< 1600	< 5800	TO-15	02/12/09	8000
Ethanol	64-17-5	46.1	5040	9500	48000	91000	TO-15	02/12/09	8000
Ethylbenzene	100-41-4	106	1600	6900	< 1600	< 6900	TO-15	02/12/09	8000
4-Ethyltoluene	622-96-8	120	1600	7900	< 1600	< 7900	TO-15	02/12/09	8000
Trichlorofluoromethane	75-69-4	137.4	1600	9000	< 1600	< 9000	TO-15	02/12/09	8000
Dichlorodifluoromethane	75-71-8	120.92	1600	7900	< 1600	< 7900	TO-15	02/12/09	8000
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1600	12000	< 1600	< 12000	TO-15	02/12/09	8000
1,2-Dichlorotetrafluoroethane	76-14-2	171	1600	11000	< 1600	< 11000	TO-15	02/12/09	8000
Heptane	142-82-5	100	1600	6500	3300	13000	TO-15	02/12/09	8000
Hexachloro-1,3-butadiene	87-68-3	261	5040	54000	< 5000	< 54000	TO-15	02/12/09	8000
n-Hexane	110-54-3	86.2	5040	18000	25000	88000	TO-15	02/12/09	8000
Isopropylbenzene	98-82-8	120.2	1600	7900	< 1600	< 7900	TO-15	02/12/09	8000
Methylene Chloride	75-09-2	84.9	1600	5600	< 1600	< 5600	TO-15	02/12/09	8000

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

February 13, 2009

ESC Sample # : L387379-01

Date Received : February 10, 2009
Description : Vacuum Truck

Site ID :

Sample ID : 85010-11

Project # :

Collected By :
Collection Date : 02/10/09 11:10

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	10000	41000	< 10000	< 41000	TO-15	02/12/09	8000
2-Butanone (MEK)	78-93-3	72.1	10000	29000	< 10000	< 29000	TO-15	02/12/09	8000
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	10000	41000	< 10000	< 41000	TO-15	02/12/09	8000
Methyl methacrylate	80-62-6	100.12	1600	6600	< 1600	< 6600	TO-15	02/12/09	8000
MTBE	1634-04-4	88.1	1600	5800	< 1600	< 5800	TO-15	02/12/09	8000
Naphthalene	91-20-3	128	1600	8400	< 1600	< 8400	TO-15	02/12/09	8000
2-Propanol	67-63-0	60.1	10000	25000	< 10000	< 25000	TO-15	02/12/09	8000
Propene	115-07-1	42.1	3200	5500	< 3200	< 5500	TO-15	02/12/09	8000
Styrene	100-42-5	104	1600	6800	< 1600	< 6800	TO-15	02/12/09	8000
1,1,2,2-Tetrachloroethane	79-34-5	168	1600	11000	< 1600	< 11000	TO-15	02/12/09	8000
Tetrachloroethylene	127-18-4	166	1600	11000	< 1600	< 11000	TO-15	02/12/09	8000
Tetrahydrofuran	109-99-9	72.1	1600	4700	< 1600	< 4700	TO-15	02/12/09	8000
Toluene	108-88-3	92.1	1600	6000	120000	450000	TO-15	02/12/09	8000
1,2,4-Trichlorobenzene	120-82-1	181	5040	37000	< 5000	< 37000	TO-15	02/12/09	8000
1,1,1-Trichloroethane	71-55-6	133	1600	8700	< 1600	< 8700	TO-15	02/12/09	8000
1,1,2-Trichloroethane	79-00-5	133	1600	8700	< 1600	< 8700	TO-15	02/12/09	8000
Trichloroethylene	79-01-6	131	1600	8600	< 1600	< 8600	TO-15	02/12/09	8000
1,2,4-Trimethylbenzene	95-63-6	120	1600	7900	< 1600	< 7900	TO-15	02/12/09	8000
1,3,5-Trimethylbenzene	108-67-8	120	1600	7900	< 1600	< 7900	TO-15	02/12/09	8000
2,2,4-Trimethylpentane	540-84-1	114.22	1600	7500	21000	98000	TO-15	02/12/09	8000
Vinyl chloride	75-01-4	62.5	1600	4100	< 1600	< 4100	TO-15	02/12/09	8000
Vinyl Bromide	593-60-2	106.95	1600	7000	< 1600	< 7000	TO-15	02/12/09	8000
Vinyl acetate	108-05-4	86.1	1600	5600	< 1600	< 5600	TO-15	02/12/09	8000
m&p-Xylene	1330-20-7	106	3200	14000	< 3200	< 14000	TO-15	02/12/09	8000
o-Xylene	95-47-6	106	1600	6900	< 1600	< 6900	TO-15	02/12/09	8000
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	170000	510000	2100000	TO-15	02/12/09	8000

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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Reported: 02/13/09 12:44 Printed: 02/13/09 12:44

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L387379-01	WG407069	SAMP	Acetone	R630066	E

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
02/13/09 at 12:44:26

TSR Signing Reports: 341
R5 - Desired TAT

Sample: L387379-01 Account: ERM Received: 02/10/09 15:30 Due Date: 02/17/09 00:00 RPT Date: 02/13/09 12:44

ERM - Southeast, Inc.

7106 Crossroads Blvd Suite 228
Brentwood,TN 37027

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Ed Ossi

Email: ed.ossi@erm.com

Project Description: Vacuum Truck

City/State Collected

Phone: (615) 373-3350
FAX:

Client Project #:

Lab Project #: ERM-85010

Collected by (print):

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: ERM (lab use only)
Template/Prelogin: T56055/ P271946
Cooler #: 2-4-09 MM
Shipped Via: Courier

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TO-15TIC Summa						Remarks/Contaminant	Sample # (lab only)
85010-11	Grab	Air		2/10/09	1110	1	X							L387379-01

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☒ Courier ☐	Condition: (lab use only)
(Earl)	2/10/09	1320			OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB / Bottles Received: 1	COC Seal Intact: ___ Y ___ N ✓ NA
Relinquished by: (Signature)	Date: 2/10/09	Time: 1530	Received for lab by: (Signature)	Date: 2/10/09 / Time: 1530	pH Checked: / NCF:

March 2009 Laboratory Report

ENVIRONMENTAL
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Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228

Brentwood, TN 37027

Report Summary

Tuesday March 24, 2009

Report Number: L393717
Samples Received: 03/20/09
Client Project:

Description: Vacuum Truck

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: John Hawkins

John Hawkins, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

March 24, 2009

ESC Sample # : L393717-01

Date Received : March 20, 2009
Description : Vacuum Truck

Site ID :

Sample ID : 85010-12

Project # :

Collected By :
Collection Date : 03/20/09 09:20

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	1000	2400	76000	180000	TO-15	03/23/09	800
Allyl chloride	107-05-1	76.53	160.	500.	< 160	< 500	TO-15	03/23/09	800
Benzene	71-43-2	78.1	160.	510.	< 160	< 510	TO-15	03/23/09	800
Benzyl Chloride	100-44-7	127	160.	830.	< 160	< 830	TO-15	03/23/09	800
Bromodichloromethane	75-27-4	164	160.	1100	< 160	< 1100	TO-15	03/23/09	800
Bromoform	75-25-2	253	480.	5000	< 480	< 5000	TO-15	03/23/09	800
Bromomethane	74-83-9	94.9	160.	620.	< 160	< 620	TO-15	03/23/09	800
1,3-Butadiene	106-99-0	54.1	1600	3500	< 1600	< 3500	TO-15	03/23/09	800
tert-Butyl alcohol	75-65-0	74.12	160.	490.	< 160	< 490	TO-15	03/23/09	800
Carbon disulfide	75-15-0	76.1	160.	500.	< 160	< 500	TO-15	03/23/09	800
Carbon tetrachloride	56-23-5	154	160.	1000	< 160	< 1000	TO-15	03/23/09	800
Chlorobenzene	108-90-7	113	160.	740.	< 160	< 740	TO-15	03/23/09	800
Chloroethane	75-00-3	64.5	160.	420.	< 160	< 420	TO-15	03/23/09	800
Chloroform	67-66-3	119	160.	780.	< 160	< 780	TO-15	03/23/09	800
Chloromethane	74-87-3	50.5	160.	330.	< 160	< 330	TO-15	03/23/09	800
2-Chlorotoluene	95-49-8	126	160.	820.	< 160	< 820	TO-15	03/23/09	800
Cyclohexane	110-82-7	84.2	160.	550.	< 160	< 550	TO-15	03/23/09	800
Dibromochloromethane	124-48-1	208	160.	1400	< 160	< 1400	TO-15	03/23/09	800
1,2-Dibromoethane	106-93-4	188	160.	1200	< 160	< 1200	TO-15	03/23/09	800
1,2-Dichlorobenzene	95-50-1	147	160.	960.	< 160	< 960	TO-15	03/23/09	800
1,3-Dichlorobenzene	541-73-1	147	160.	960.	< 160	< 960	TO-15	03/23/09	800
1,4-Dichlorobenzene	106-46-7	147	160.	960.	< 160	< 960	TO-15	03/23/09	800
1,2-Dichloroethane	107-06-2	99	160.	650.	< 160	< 650	TO-15	03/23/09	800
1,1-Dichloroethane	75-34-3	98	160.	640.	< 160	< 640	TO-15	03/23/09	800
1,1-Dichloroethene	75-35-4	96.9	160.	630.	< 160	< 630	TO-15	03/23/09	800
cis-1,2-Dichloroethene	156-59-2	96.9	160.	630.	< 160	< 630	TO-15	03/23/09	800
trans-1,2-Dichloroethene	156-60-5	96.9	160.	630.	< 160	< 630	TO-15	03/23/09	800
1,2-Dichloropropane	78-87-5	113	160.	740.	< 160	< 740	TO-15	03/23/09	800
cis-1,3-Dichloropropene	10061-01-5	111	160.	730.	< 160	< 730	TO-15	03/23/09	800
trans-1,3-Dichloropropene	10061-02-6	111	160.	730.	< 160	< 730	TO-15	03/23/09	800
1,4-Dioxane	123-91-1	88.1	160.	580.	< 160	< 580	TO-15	03/23/09	800
Ethanol	64-17-5	46.1	504.	950.	1900	3600	TO-15	03/23/09	800
Ethylbenzene	100-41-4	106	160.	690.	< 160	< 690	TO-15	03/23/09	800
4-Ethyltoluene	622-96-8	120	160.	790.	< 160	< 790	TO-15	03/23/09	800
Trichlorofluoromethane	75-69-4	137.4	160.	900.	< 160	< 900	TO-15	03/23/09	800
Dichlorodifluoromethane	75-71-8	120.92	160.	790.	< 160	< 790	TO-15	03/23/09	800
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	160.	1200	< 160	< 1200	TO-15	03/23/09	800
1,2-Dichlorotetrafluoroethane	76-14-2	171	160.	1100	< 160	< 1100	TO-15	03/23/09	800
Heptane	142-82-5	100	160.	650.	< 160	< 650	TO-15	03/23/09	800
Hexachloro-1,3-butadiene	87-68-3	261	504.	5400	< 500	< 5400	TO-15	03/23/09	800
n-Hexane	110-54-3	86.2	504.	1800	< 500	< 1800	TO-15	03/23/09	800
Isopropylbenzene	98-82-8	120.2	160.	790.	< 160	< 790	TO-15	03/23/09	800
Methylene Chloride	75-09-2	84.9	160.	560.	< 160	< 560	TO-15	03/23/09	800

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Ed Ossi
ERM - Southeast, Inc.
7106 Crossroads Blvd Suite 228
Brentwood, TN 37027

March 24, 2009

ESC Sample # : L393717-01

Date Received : March 20, 2009
Description : Vacuum Truck

Site ID :

Sample ID : 85010-12

Project # :

Collected By :
Collection Date : 03/20/09 09:20

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Methyl Butyl Ketone	591-78-6	100	1000	4100	< 1000	< 4100	TO-15	03/23/09	800
2-Butanone (MEK)	78-93-3	72.1	1000	2900	< 1000	< 2900	TO-15	03/23/09	800
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	1000	4100	< 1000	< 4100	TO-15	03/23/09	800
Methyl methacrylate	80-62-6	100.12	160.	660.	< 160	< 660	TO-15	03/23/09	800
MTBE	1634-04-4	88.1	160.	580.	< 160	< 580	TO-15	03/23/09	800
Naphthalene	91-20-3	128	160.	840.	< 160	< 840	TO-15	03/23/09	800
2-Propanol	67-63-0	60.1	1000	2500	< 1000	< 2500	TO-15	03/23/09	800
Propene	115-07-1	42.1	320.	550.	< 320	< 550	TO-15	03/23/09	800
Styrene	100-42-5	104	160.	680.	< 160	< 680	TO-15	03/23/09	800
1,1,2,2-Tetrachloroethane	79-34-5	168	160.	1100	< 160	< 1100	TO-15	03/23/09	800
Tetrachloroethylene	127-18-4	166	160.	1100	< 160	< 1100	TO-15	03/23/09	800
Tetrahydrofuran	109-99-9	72.1	160.	470.	< 160	< 470	TO-15	03/23/09	800
Toluene	108-88-3	92.1	160.	600.	11000	41000	TO-15	03/23/09	800
1,2,4-Trichlorobenzene	120-82-1	181	504.	3700	< 500	< 3700	TO-15	03/23/09	800
1,1,1-Trichloroethane	71-55-6	133	160.	870.	< 160	< 870	TO-15	03/23/09	800
1,1,2-Trichloroethane	79-00-5	133	160.	870.	< 160	< 870	TO-15	03/23/09	800
Trichloroethylene	79-01-6	131	160.	860.	< 160	< 860	TO-15	03/23/09	800
1,2,4-Trimethylbenzene	95-63-6	120	160.	790.	< 160	< 790	TO-15	03/23/09	800
1,3,5-Trimethylbenzene	108-67-8	120	160.	790.	< 160	< 790	TO-15	03/23/09	800
2,2,4-Trimethylpentane	540-84-1	114.22	160.	750.	< 160	< 750	TO-15	03/23/09	800
Vinyl chloride	75-01-4	62.5	160.	410.	< 160	< 410	TO-15	03/23/09	800
Vinyl Bromide	593-60-2	106.95	160.	700.	< 160	< 700	TO-15	03/23/09	800
Vinyl acetate	108-05-4	86.1	160.	560.	< 160	< 560	TO-15	03/23/09	800
m&p-Xylene	1330-20-7	106	320.	1400	< 320	< 1400	TO-15	03/23/09	800
o-Xylene	95-47-6	106	160.	690.	< 160	< 690	TO-15	03/23/09	800
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	170000	72000	300000	TO-15	03/23/09	800

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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Reported: 03/24/09 10:43 Printed: 03/24/09 10:43

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L393717-01	WG413286	SAMP	Acetone	R682490	E

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

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Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
03/24/09 at 10:43:59

TSR Signing Reports: 341
R5 - Desired TAT

Sample: L393717-01 Account: ERM Received: 03/20/09 13:40 Due Date: 03/27/09 00:00 RPT Date: 03/24/09 10:43

ERM - Southeast, Inc.

7106 Crossroads Blvd Suite 228
Brentwood,TN 37027

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. Ed Ossi

Email: ed.ossi@erm.com;Jeff.Boyce

Project Description: Vacuum Truck

City/State Collected

Phone: (615) 373-3350
FAX:

Client Project #:

Lab Project # ERM-85010

Collected by (print):

Site/Facility ID#:

P.O.#:

Collected by (signature): [signature]
Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: ERM (lab use only)
Template/Prelogin T55159/ P276624
Cooler #: 317-07 114
Shipped Via: Courier

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TO-15TIC Summa						Remarks/Contaminant	Sample # (lab only)
85010-12	Grab	Air		3/20/09	0920	1	X							L393717-01

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☒ Courier ☐	Condition: (lab use only)
[signature]	3/20/09	1030	[signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB. Bottles Received: 1	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature) [signature]	Date: 3/20/09	Time: 1340	Received for lab by: (Signature) [signature]	Date: 03-20-09 Time: 13:40	pH Checked: ___ NCF:

Appendix 4

Well EV-6 Water Monitoring Data

Well EV-6 Groundwater Summary Table

SOURCE AREA GROUNDWATER ANALYTICAL SUMMARY
EGYPTIAN LACQUER MANUFACTURING COMPANY
VAPOR EXTRACTION WELL EV-6
All Results in mg/L

Constituent	7/2/2009	8/7/2009	9/3/2009	10/22/2009	11/19/2009	12/10/2009	3/24/2010	6/16/2010
Acetone	**2060**	**537**	**11.40**	<0.050	**0.0724**	**0.106**	<50.00	<25.00
Benzene	<0.050	**0.00683**	**0.024**	**0.00964**	**0.00942**	**0.00833**	<1.00	<0.500
MEK	**10.2**	**8.61**	**0.493**	<0.050	<0.050	<0.050	<1.00	<0.500
n-Butylbenzene	<0.050	<0.0010	**0.00151**	<0.0010	<0.0010	<0.0010	<1.00	<0.500
sec-Butylbenzene	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	**0.00112**	<1.00	<0.500
Chloromethane	<0.050	<0.0010	**0.00328**	<0.0010	<0.0010	<0.0010	<1.00	<0.500
Ethylbenzene	**0.157**	**0.316**	**0.0911**	<2.000	**0.311**	**0.225**	<1.00	<0.500
Isopropylbenzene	<0.050	**0.00271**	**0.00348**	**0.00482**	**0.00401**	**0.00469**	<1.00	<0.500
p-Isopropyltoluene	<0.050	<0.0010	**0.00126**	<0.0010	<0.0010	<0.0010	<1.00	<0.500
MIBK	**8.00**	**5.45**	**0.634**	**0.308**	<0.010	<0.010	<1.00	<0.500
n-Propylbenzene	<0.050	**2.33**	**0.00209**	**0.00243**	**0.00319**	**0.00392**	<1.00	<0.500
Toluene	**59.3**	**79.7**	**24.3**	**113.0**	**92.5**	**73.8**	**160.00**	**45.40**
1,3,5-Trimethylbenzene	<0.050	**0.00268**	**0.00129**	**0.00268**	**0.00279**	**0.00321**	<1.00	<0.500
1,2,4-Trimethlylbenzene	<0.050	**0.0106**	**0.00767**	**0.00930**	**0.01040**	**0.0133**	<1.00	<0.500
Xylenes	**1.54**	**2.75**	**0.622**	<6.0	**2.05**	**1.820**	**4.850**	<1.5
Water Level (ft BTOC)	21.19	22.20	22.30	22.22	NM	22.74	22.32	22.31

July 2009 Laboratory Report (Excerpt)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSG0221
		Project Name:	Triad Env. Consultants
		Project Number:	[none]
Attn	Jason Unkefer	Received:	07/02/09 14:33

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0221-04 (EV-6 - Water) Sampled: 07/02/09 12:59								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**2060000**		ug/L	250000	5000	07/07/09 23:36	SW846 8260B	9070637
Benzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Bromobenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Bromochloromethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Bromodichloromethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Bromoform	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Bromomethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
2-Butanone	**10200**		ug/L	2500	50	07/03/09 22:59	SW846 8260B	9070476
sec-Butylbenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
n-Butylbenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
tert-Butylbenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Carbon disulfide	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Carbon Tetrachloride	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Chlorobenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Chlorodibromomethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Chloroethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Chloroform	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Chloromethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
2-Chlorotoluene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
4-Chlorotoluene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,2-Dibromo-3-chloropropane	ND		ug/L	250	50	07/03/09 22:59	SW846 8260B	9070476
1,2-Dibromoethane (EDB)	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Dibromomethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,4-Dichlorobenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,3-Dichlorobenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,2-Dichlorobenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Dichlorodifluoromethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,1-Dichloroethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,2-Dichloroethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
cis-1,2-Dichloroethene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,1-Dichloroethene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
trans-1,2-Dichloroethene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,3-Dichloropropane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,2-Dichloropropane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
2,2-Dichloropropane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
cis-1,3-Dichloropropene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
trans-1,3-Dichloropropene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,1-Dichloropropene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Ethylbenzene	**157**		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Hexachlorobutadiene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
2-Hexanone	ND		ug/L	2500	50	07/03/09 22:59	SW846 8260B	9070476
Isopropylbenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSG0221
	207 Donelson Pike, Suite 200	Project Name:	Triad Env. Consultants
	Nashville, TN 37214	Project Number:	[none]
Attn	Jason Unkefer	Received:	07/02/09 14:33

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0221-04 (EV-6 - Water) - cont. Sampled: 07/02/09 12:59								
Volatile Organic Compounds by EPA Method 8260B - cont.								
p-Isopropyltoluene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Methyl tert-Butyl Ether	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Methylene Chloride	ND		ug/L	250	50	07/03/09 22:59	SW846 8260B	9070476
4-Methyl-2-pentanone	**8000**		ug/L	500	50	07/03/09 22:59	SW846 8260B	9070476
Naphthalene	ND		ug/L	250	50	07/03/09 22:59	SW846 8260B	9070476
n-Propylbenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Styrene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,1,1,2-Tetrachloroethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,1,2,2-Tetrachloroethane	ND	L	ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Tetrachloroethene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Toluene	**59300**		ug/L	500	500	07/03/09 23:27	SW846 8260B	9070476
1,2,3-Trichlorobenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,2,4-Trichlorobenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,1,2-Trichloroethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,1,1-Trichloroethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Trichloroethene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Trichlorofluoromethane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,2,3-Trichloropropane	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,3,5-Trimethylbenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
1,2,4-Trimethylbenzene	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Vinyl chloride	ND		ug/L	50.0	50	07/03/09 22:59	SW846 8260B	9070476
Xylenes, total	**1540**		ug/L	150	50	07/03/09 22:59	SW846 8260B	9070476
Surr: 1,2-Dichloroethane-d4 (63-140%)	*73 %*					*07/03/09 22:59*	*SW846 8260B*	*9070476*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*74 %*					*07/03/09 23:27*	*SW846 8260B*	*9070476*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*79 %*					*07/07/09 23:36*	*SW846 8260B*	*9070637*
Surr: Dibromofluoromethane (73-131%)	*90 %*					*07/03/09 22:59*	*SW846 8260B*	*9070476*
Surr: Dibromofluoromethane (73-131%)	*90 %*					*07/03/09 23:27*	*SW846 8260B*	*9070476*
Surr: Dibromofluoromethane (73-131%)	*97 %*					*07/07/09 23:36*	*SW846 8260B*	*9070637*
Surr: Toluene-d8 (80-120%)	*117 %*					*07/03/09 22:59*	*SW846 8260B*	*9070476*
Surr: Toluene-d8 (80-120%)	*113 %*					*07/03/09 23:27*	*SW846 8260B*	*9070476*
Surr: Toluene-d8 (80-120%)	*118 %*					*07/07/09 23:36*	*SW846 8260B*	*9070637*
Surr: 4-Bromofluorobenzene (79-125%)	*96 %*					*07/03/09 22:59*	*SW846 8260B*	*9070476*
Surr: 4-Bromofluorobenzene (79-125%)	*95 %*					*07/03/09 23:27*	*SW846 8260B*	*9070476*
Surr: 4-Bromofluorobenzene (79-125%)	*100 %*					*07/07/09 23:36*	*SW846 8260B*	*9070637*

August 2009 Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

August 20, 2009 8:56:51AM

Client: TriAD Env. Consultants (6921)
207 Donelson Pike, Suite 200
Nashville, TN 37214
Attn: Chris Scott

Work Order: NSH0589
Project Name: Elmco
Project Nbr: 07-Elm01-01
P/O Nbr:
Date Received: 08/07/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
EV-6	NSH0589-01	08/07/09 11:50
Trip Blank	NSH0589-02	08/07/09 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Tennessee Certification Number: 02008

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Jennifer Gambill

Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0589-01 (EV-6 - Ground Water) Sampled: 08/07/09 11:50								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**537000**		ug/L	50000	1000	08/13/09 13:50	SW846 8260B	9082787
Benzene	**6.83**		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Bromobenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Bromochloromethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Bromodichloromethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Bromoform	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Bromomethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
2-Butanone	**8610**		ug/L	2500	50	08/11/09 05:45	SW846 8260B	9082268
sec-Butylbenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
n-Butylbenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
tert-Butylbenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Carbon disulfide	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Carbon Tetrachloride	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Chlorobenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Chlorodibromomethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Chloroethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Chloroform	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Chloromethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
2-Chlorotoluene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
4-Chlorotoluene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Dibromomethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,4-Dichlorobenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,3-Dichlorobenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2-Dichlorobenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Dichlorodifluoromethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,1-Dichloroethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2-Dichloroethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,1-Dichloroethene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,3-Dichloropropane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2-Dichloropropane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
2,2-Dichloropropane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,1-Dichloropropene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Ethylbenzene	**316**		ug/L	50.0	50	08/11/09 05:45	SW846 8260B	9082268
Hexachlorobutadiene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
2-Hexanone	ND		ug/L	50.0	1	08/09/09 19:31	SW846 8260B	9082153
Isopropylbenzene	**2.71**		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0589-01 (EV-6 - Ground Water) - cont. Sampled: 08/07/09 11:50								
Volatile Organic Compounds by EPA Method 8260B - cont.								
p-Isopropyltoluene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Methylene Chloride	ND		ug/L	5.00	1	08/09/09 19:31	SW846 8260B	9082153
4-Methyl-2-pentanone	**5450**		ug/L	500	50	08/11/09 05:45	SW846 8260B	9082268
Naphthalene	ND		ug/L	5.00	1	08/09/09 19:31	SW846 8260B	9082153
n-Propylbenzene	**2.33**		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Styrene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Tetrachloroethene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Toluene	**79700**		ug/L	1000	1000	08/13/09 13:50	SW846 8260B	9082787
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,1,2-Trichloroethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,1,1-Trichloroethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Trichloroethene	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Trichlorofluoromethane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2,3-Trichloropropane	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,3,5-Trimethylbenzene	**2.68**		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
1,2,4-Trimethylbenzene	**10.6**		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Vinyl chloride	ND		ug/L	1.00	1	08/09/09 19:31	SW846 8260B	9082153
Xylenes, total	**2750**		ug/L	150	50	08/11/09 05:45	SW846 8260B	9082268
Surr: 1,2-Dichloroethane-d4 (63-140%)	*98 %*					*08/09/09 19:31*	*SW846 8260B*	*9082153*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*101 %*					*08/11/09 05:45*	*SW846 8260B*	*9082268*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*91 %*					*08/13/09 13:50*	*SW846 8260B*	*9082787*
Surr: Dibromofluoromethane (73-131%)	*97 %*					*08/09/09 19:31*	*SW846 8260B*	*9082153*
Surr: Dibromofluoromethane (73-131%)	*104 %*					*08/11/09 05:45*	*SW846 8260B*	*9082268*
Surr: Dibromofluoromethane (73-131%)	*91 %*					*08/13/09 13:50*	*SW846 8260B*	*9082787*
Surr: Toluene-d8 (80-120%)	*44 %*	*ZX*				*08/09/09 19:31*	*SW846 8260B*	*9082153*
Surr: Toluene-d8 (80-120%)	*109 %*					*08/11/09 05:45*	*SW846 8260B*	*9082268*
Surr: Toluene-d8 (80-120%)	*98 %*					*08/13/09 13:50*	*SW846 8260B*	*9082787*
Surr: 4-Bromofluorobenzene (79-125%)	*123 %*					*08/09/09 19:31*	*SW846 8260B*	*9082153*
Surr: 4-Bromofluorobenzene (79-125%)	*102 %*					*08/11/09 05:45*	*SW846 8260B*	*9082268*
Surr: 4-Bromofluorobenzene (79-125%)	*101 %*					*08/13/09 13:50*	*SW846 8260B*	*9082787*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0589-02 (Trip Blank - Ground Water) Sampled: 08/07/09 00:01								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	08/09/09 13:28	SW846 8260B	9082153
Benzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Bromobenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Bromochloromethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Bromodichloromethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Bromoform	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Bromomethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
2-Butanone	ND		ug/L	50.0	1	08/09/09 13:28	SW846 8260B	9082153
sec-Butylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
n-Butylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
tert-Butylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Carbon disulfide	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Carbon Tetrachloride	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Chlorobenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Chlorodibromomethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Chloroethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Chloroform	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Chloromethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
2-Chlorotoluene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
4-Chlorotoluene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Dibromomethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,4-Dichlorobenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,3-Dichlorobenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2-Dichlorobenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Dichlorodifluoromethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,1-Dichloroethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2-Dichloroethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,1-Dichloroethene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,3-Dichloropropane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2-Dichloropropane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
2,2-Dichloropropane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,1-Dichloropropene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Ethylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Hexachlorobutadiene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
2-Hexanone	ND		ug/L	50.0	1	08/09/09 13:28	SW846 8260B	9082153
Isopropylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSH0589-02 (Trip Blank - Ground Water) - cont. Sampled: 08/07/09 00:01								
Volatile Organic Compounds by EPA Method 8260B - cont.								
p-Isopropyltoluene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Methylene Chloride	ND		ug/L	5.00	1	08/09/09 13:28	SW846 8260B	9082153
4-Methyl-2-pentanone	ND		ug/L	10.0	1	08/09/09 13:28	SW846 8260B	9082153
Naphthalene	ND		ug/L	5.00	1	08/09/09 13:28	SW846 8260B	9082153
n-Propylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Styrene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Tetrachloroethene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Toluene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,1,2-Trichloroethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,1,1-Trichloroethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Trichloroethene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Trichlorofluoromethane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2,3-Trichloropropane	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,3,5-Trimethylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
1,2,4-Trimethylbenzene	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Vinyl chloride	ND		ug/L	1.00	1	08/09/09 13:28	SW846 8260B	9082153
Xylenes, total	ND		ug/L	3.00	1	08/09/09 13:28	SW846 8260B	9082153
Surr: 1,2-Dichloroethane-d4 (63-140%)	*105 %*					*08/09/09 13:28*	*SW846 8260B*	*9082153*
Surr: Dibromofluoromethane (73-131%)	*108 %*					*08/09/09 13:28*	*SW846 8260B*	*9082153*
Surr: Toluene-d8 (80-120%)	*105 %*					*08/09/09 13:28*	*SW846 8260B*	*9082153*
Surr: 4-Bromofluorobenzene (79-125%)	*101 %*					*08/09/09 13:28*	*SW846 8260B*	*9082153*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9082153-BLK1						
Acetone	<25.0		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Benzene	<0.410		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Bromobenzene	<0.360		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Bromochloromethane	<0.470		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Bromodichloromethane	<0.270		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Bromoform	<0.430		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Bromomethane	<0.300		ug/L	9082153	9082153-BLK1	08/09/09 13:00
2-Butanone	<2.10		ug/L	9082153	9082153-BLK1	08/09/09 13:00
sec-Butylbenzene	<0.360		ug/L	9082153	9082153-BLK1	08/09/09 13:00
n-Butylbenzene	<0.310		ug/L	9082153	9082153-BLK1	08/09/09 13:00
tert-Butylbenzene	<0.380		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Carbon disulfide	<0.360		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Carbon Tetrachloride	<0.330		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Chlorobenzene	<0.220		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Chlorodibromomethane	<0.260		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Chloroethane	<0.460		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Chloroform	0.370		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Chloromethane	<0.390		ug/L	9082153	9082153-BLK1	08/09/09 13:00
2-Chlorotoluene	<0.510		ug/L	9082153	9082153-BLK1	08/09/09 13:00
4-Chlorotoluene	<0.510		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2-Dibromoethane (EDB)	<0.460		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Dibromomethane	<0.410		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,4-Dichlorobenzene	<0.430		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,3-Dichlorobenzene	<0.320		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2-Dichlorobenzene	<0.400		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Dichlorodifluoromethane	<0.190		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,1-Dichloroethane	<0.340		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2-Dichloroethane	<0.350		ug/L	9082153	9082153-BLK1	08/09/09 13:00
cis-1,2-Dichloroethene	<0.330		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,1-Dichloroethene	<0.220		ug/L	9082153	9082153-BLK1	08/09/09 13:00
trans-1,2-Dichloroethene	<0.330		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,3-Dichloropropane	<0.270		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2-Dichloropropane	<0.240		ug/L	9082153	9082153-BLK1	08/09/09 13:00
2,2-Dichloropropane	<0.300		ug/L	9082153	9082153-BLK1	08/09/09 13:00
cis-1,3-Dichloropropene	<0.330		ug/L	9082153	9082153-BLK1	08/09/09 13:00
trans-1,3-Dichloropropene	<0.330		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,1-Dichloropropene	<0.260		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Ethylbenzene	<0.350		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Hexachlorobutadiene	<0.790		ug/L	9082153	9082153-BLK1	08/09/09 13:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9082153-BLK1						
2-Hexanone	<1.40		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Isopropylbenzene	<0.400		ug/L	9082153	9082153-BLK1	08/09/09 13:00
p-Isopropyltoluene	<0.330		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Methyl tert-Butyl Ether	<0.320		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Methylene Chloride	<0.480		ug/L	9082153	9082153-BLK1	08/09/09 13:00
4-Methyl-2-pentanone	<1.40		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Naphthalene	<0.380		ug/L	9082153	9082153-BLK1	08/09/09 13:00
n-Propylbenzene	<0.390		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Styrene	<0.260		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,1,1,2-Tetrachloroethane	<0.200		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,1,2,2-Tetrachloroethane	<0.360		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Tetrachloroethene	<0.320		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Toluene	<0.350		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2,3-Trichlorobenzene	<0.270		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2,4-Trichlorobenzene	<0.360		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,1,2-Trichloroethane	<0.320		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,1,1-Trichloroethane	<0.190		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Trichloroethene	<0.260		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Trichlorofluoromethane	<0.220		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2,3-Trichloropropane	<0.470		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,3,5-Trimethylbenzene	<0.360		ug/L	9082153	9082153-BLK1	08/09/09 13:00
1,2,4-Trimethylbenzene	<0.320		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Vinyl chloride	<0.220		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Xylenes, total	<0.730		ug/L	9082153	9082153-BLK1	08/09/09 13:00
Surrogate: 1,2-Dichloroethane-d4	102%			9082153	9082153-BLK1	08/09/09 13:00
Surrogate: Dibromofluoromethane	107%			9082153	9082153-BLK1	08/09/09 13:00
Surrogate: Toluene-d8	105%			9082153	9082153-BLK1	08/09/09 13:00
Surrogate: 4-Bromofluorobenzene	102%			9082153	9082153-BLK1	08/09/09 13:00
9082268-BLK1						
Acetone	<25.0		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Benzene	<0.410		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Bromobenzene	<0.360		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Bromochloromethane	<0.470		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Bromodichloromethane	<0.270		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Bromoform	<0.430		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Bromomethane	<0.300		ug/L	9082268	9082268-BLK1	08/11/09 02:32
2-Butanone	<2.10		ug/L	9082268	9082268-BLK1	08/11/09 02:32
sec-Butylbenzene	<0.360		ug/L	9082268	9082268-BLK1	08/11/09 02:32
n-Butylbenzene	<0.310		ug/L	9082268	9082268-BLK1	08/11/09 02:32

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9082268-BLK1						
tert-Butylbenzene	<0.380		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Carbon disulfide	<0.360		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Carbon Tetrachloride	<0.330		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Chlorobenzene	<0.220		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Chlorodibromomethane	<0.260		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Chloroethane	<0.460		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Chloroform	0.340		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Chloromethane	<0.390		ug/L	9082268	9082268-BLK1	08/11/09 02:32
2-Chlorotoluene	<0.510		ug/L	9082268	9082268-BLK1	08/11/09 02:32
4-Chlorotoluene	<0.510		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2-Dibromoethane (EDB)	<0.460		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Dibromomethane	<0.410		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,4-Dichlorobenzene	<0.430		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,3-Dichlorobenzene	<0.320		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2-Dichlorobenzene	<0.400		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Dichlorodifluoromethane	<0.190		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,1-Dichloroethane	<0.340		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2-Dichloroethane	<0.350		ug/L	9082268	9082268-BLK1	08/11/09 02:32
cis-1,2-Dichloroethene	<0.330		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,1-Dichloroethene	<0.220		ug/L	9082268	9082268-BLK1	08/11/09 02:32
trans-1,2-Dichloroethene	<0.330		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,3-Dichloropropane	<0.270		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2-Dichloropropane	<0.240		ug/L	9082268	9082268-BLK1	08/11/09 02:32
2,2-Dichloropropane	<0.300		ug/L	9082268	9082268-BLK1	08/11/09 02:32
cis-1,3-Dichloropropene	<0.330		ug/L	9082268	9082268-BLK1	08/11/09 02:32
trans-1,3-Dichloropropene	<0.330		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,1-Dichloropropene	<0.260		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Ethylbenzene	<0.350		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Hexachlorobutadiene	<0.790		ug/L	9082268	9082268-BLK1	08/11/09 02:32
2-Hexanone	<1.40		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Isopropylbenzene	<0.400		ug/L	9082268	9082268-BLK1	08/11/09 02:32
p-Isopropyltoluene	<0.330		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Methyl tert-Butyl Ether	<0.320		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Methylene Chloride	<0.480		ug/L	9082268	9082268-BLK1	08/11/09 02:32
4-Methyl-2-pentanone	<1.40		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Naphthalene	<0.380		ug/L	9082268	9082268-BLK1	08/11/09 02:32
n-Propylbenzene	<0.390		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Styrene	<0.260		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,1,1,2-Tetrachloroethane	<0.200		ug/L	9082268	9082268-BLK1	08/11/09 02:32

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9082268-BLK1						
1,1,2,2-Tetrachloroethane	<0.360		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Tetrachloroethene	<0.320		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Toluene	<0.350		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2,3-Trichlorobenzene	<0.270		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2,4-Trichlorobenzene	<0.360		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,1,2-Trichloroethane	<0.320		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,1,1-Trichloroethane	<0.190		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Trichloroethene	<0.260		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Trichlorofluoromethane	<0.220		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2,3-Trichloropropane	<0.470		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,3,5-Trimethylbenzene	<0.360		ug/L	9082268	9082268-BLK1	08/11/09 02:32
1,2,4-Trimethylbenzene	<0.320		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Vinyl chloride	<0.220		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Xylenes, total	<0.730		ug/L	9082268	9082268-BLK1	08/11/09 02:32
Surrogate: 1,2-Dichloroethane-d4	108%			9082268	9082268-BLK1	08/11/09 02:32
Surrogate: Dibromofluoromethane	110%			9082268	9082268-BLK1	08/11/09 02:32
Surrogate: Toluene-d8	106%			9082268	9082268-BLK1	08/11/09 02:32
Surrogate: 4-Bromofluorobenzene	96%			9082268	9082268-BLK1	08/11/09 02:32
9082787-BLK1						
Acetone	<25.0		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Benzene	<0.410		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Bromobenzene	<0.360		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Bromochloromethane	<0.470		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Bromodichloromethane	<0.270		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Bromoform	<0.430		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Bromomethane	<0.300		ug/L	9082787	9082787-BLK1	08/13/09 11:38
2-Butanone	<2.10		ug/L	9082787	9082787-BLK1	08/13/09 11:38
sec-Butylbenzene	<0.360		ug/L	9082787	9082787-BLK1	08/13/09 11:38
n-Butylbenzene	<0.310		ug/L	9082787	9082787-BLK1	08/13/09 11:38
tert-Butylbenzene	<0.380		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Carbon disulfide	<0.360		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Carbon Tetrachloride	<0.330		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Chlorobenzene	<0.220		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Chlorodibromomethane	<0.260		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Chloroethane	<0.460		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Chloroform	<0.250		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Chloromethane	<0.390		ug/L	9082787	9082787-BLK1	08/13/09 11:38
2-Chlorotoluene	<0.510		ug/L	9082787	9082787-BLK1	08/13/09 11:38
4-Chlorotoluene	<0.510		ug/L	9082787	9082787-BLK1	08/13/09 11:38

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9082787-BLK1						
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2-Dibromoethane (EDB)	<0.460		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Dibromomethane	<0.410		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,4-Dichlorobenzene	<0.430		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,3-Dichlorobenzene	<0.320		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2-Dichlorobenzene	<0.400		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Dichlorodifluoromethane	<0.190		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,1-Dichloroethane	<0.340		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2-Dichloroethane	<0.350		ug/L	9082787	9082787-BLK1	08/13/09 11:38
cis-1,2-Dichloroethene	<0.330		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,1-Dichloroethene	<0.220		ug/L	9082787	9082787-BLK1	08/13/09 11:38
trans-1,2-Dichloroethene	<0.330		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,3-Dichloropropane	<0.270		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2-Dichloropropane	<0.240		ug/L	9082787	9082787-BLK1	08/13/09 11:38
2,2-Dichloropropane	<0.300		ug/L	9082787	9082787-BLK1	08/13/09 11:38
cis-1,3-Dichloropropene	<0.330		ug/L	9082787	9082787-BLK1	08/13/09 11:38
trans-1,3-Dichloropropene	<0.330		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,1-Dichloropropene	<0.260		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Ethylbenzene	<0.350		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Hexachlorobutadiene	<0.790		ug/L	9082787	9082787-BLK1	08/13/09 11:38
2-Hexanone	<1.40		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Isopropylbenzene	<0.400		ug/L	9082787	9082787-BLK1	08/13/09 11:38
p-Isopropyltoluene	<0.330		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Methyl tert-Butyl Ether	<0.320		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Methylene Chloride	<0.480		ug/L	9082787	9082787-BLK1	08/13/09 11:38
4-Methyl-2-pentanone	<1.40		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Naphthalene	<0.380		ug/L	9082787	9082787-BLK1	08/13/09 11:38
n-Propylbenzene	<0.390		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Styrene	<0.260		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,1,1,2-Tetrachloroethane	<0.200		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,1,2,2-Tetrachloroethane	<0.360		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Tetrachloroethene	<0.320		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Toluene	<0.350		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2,3-Trichlorobenzene	<0.270		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2,4-Trichlorobenzene	<0.360		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,1,2-Trichloroethane	<0.320		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,1,1-Trichloroethane	<0.190		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Trichloroethene	<0.260		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Trichlorofluoromethane	<0.220		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2,3-Trichloropropane	<0.470		ug/L	9082787	9082787-BLK1	08/13/09 11:38

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9082787-BLK1						
1,3,5-Trimethylbenzene	<0.360		ug/L	9082787	9082787-BLK1	08/13/09 11:38
1,2,4-Trimethylbenzene	<0.320		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Vinyl chloride	<0.220		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Xylenes, total	<0.730		ug/L	9082787	9082787-BLK1	08/13/09 11:38
Surrogate: 1,2-Dichloroethane-d4	89%			9082787	9082787-BLK1	08/13/09 11:38
Surrogate: Dibromofluoromethane	93%			9082787	9082787-BLK1	08/13/09 11:38
Surrogate: Toluene-d8	99%			9082787	9082787-BLK1	08/13/09 11:38
Surrogate: 4-Bromofluorobenzene	99%			9082787	9082787-BLK1	08/13/09 11:38

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSH0589 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9082153-BS1								
Acetone	250	258		ug/L	103%	56 - 150	9082153	08/09/09 11:08
Benzene	50.0	46.2		ug/L	92%	80 - 121	9082153	08/09/09 11:08
Bromobenzene	50.0	48.2		ug/L	96%	72 - 130	9082153	08/09/09 11:08
Bromochloromethane	50.0	48.7		ug/L	97%	73 - 137	9082153	08/09/09 11:08
Bromodichloromethane	50.0	50.2		ug/L	100%	75 - 131	9082153	08/09/09 11:08
Bromoform	50.0	48.3		ug/L	97%	65 - 140	9082153	08/09/09 11:08
Bromomethane	50.0	48.2		ug/L	96%	50 - 150	9082153	08/09/09 11:08
2-Butanone	250	262		ug/L	105%	70 - 144	9082153	08/09/09 11:08
sec-Butylbenzene	50.0	49.3		ug/L	99%	72 - 140	9082153	08/09/09 11:08
n-Butylbenzene	50.0	52.6		ug/L	105%	68 - 140	9082153	08/09/09 11:08
tert-Butylbenzene	50.0	46.2		ug/L	92%	76 - 135	9082153	08/09/09 11:08
Carbon disulfide	50.0	51.6		ug/L	103%	74 - 137	9082153	08/09/09 11:08
Carbon Tetrachloride	50.0	43.5		ug/L	87%	71 - 137	9082153	08/09/09 11:08
Chlorobenzene	50.0	47.8		ug/L	96%	80 - 121	9082153	08/09/09 11:08
Chlorodibromomethane	50.0	49.3		ug/L	99%	68 - 137	9082153	08/09/09 11:08
Chloroethane	50.0	51.5		ug/L	103%	50 - 146	9082153	08/09/09 11:08
Chloroform	50.0	43.7		ug/L	87%	73 - 131	9082153	08/09/09 11:08
Chloromethane	50.0	31.6		ug/L	63%	30 - 132	9082153	08/09/09 11:08
2-Chlorotoluene	50.0	49.4		ug/L	99%	74 - 135	9082153	08/09/09 11:08
4-Chlorotoluene	50.0	50.2		ug/L	100%	74 - 132	9082153	08/09/09 11:08
1,2-Dibromo-3-chloropropane	50.0	48.2		ug/L	96%	56 - 145	9082153	08/09/09 11:08
1,2-Dibromoethane (EDB)	50.0	53.9		ug/L	108%	80 - 135	9082153	08/09/09 11:08
Dibromomethane	50.0	48.1		ug/L	96%	78 - 133	9082153	08/09/09 11:08
1,4-Dichlorobenzene	50.0	47.4		ug/L	95%	80 - 120	9082153	08/09/09 11:08
1,3-Dichlorobenzene	50.0	49.2		ug/L	98%	80 - 128	9082153	08/09/09 11:08
1,2-Dichlorobenzene	50.0	52.2		ug/L	104%	80 - 125	9082153	08/09/09 11:08
Dichlorodifluoromethane	50.0	34.4		ug/L	69%	30 - 132	9082153	08/09/09 11:08
1,1-Dichloroethane	50.0	46.9		ug/L	94%	75 - 125	9082153	08/09/09 11:08
1,2-Dichloroethane	50.0	45.0		ug/L	90%	70 - 134	9082153	08/09/09 11:08
cis-1,2-Dichloroethene	50.0	46.9		ug/L	94%	71 - 132	9082153	08/09/09 11:08
1,1-Dichloroethene	50.0	49.9		ug/L	100%	73 - 125	9082153	08/09/09 11:08
trans-1,2-Dichloroethene	50.0	45.8		ug/L	92%	77 - 125	9082153	08/09/09 11:08
1,3-Dichloropropane	50.0	49.9		ug/L	100%	76 - 125	9082153	08/09/09 11:08
1,2-Dichloropropane	50.0	44.1		ug/L	88%	72 - 120	9082153	08/09/09 11:08
2,2-Dichloropropane	50.0	54.8		ug/L	110%	50 - 150	9082153	08/09/09 11:08
cis-1,3-Dichloropropene	50.0	50.4		ug/L	101%	70 - 140	9082153	08/09/09 11:08
trans-1,3-Dichloropropene	50.0	48.7		ug/L	97%	62 - 139	9082153	08/09/09 11:08
1,1-Dichloropropene	50.0	47.8		ug/L	96%	78 - 126	9082153	08/09/09 11:08
Ethylbenzene	50.0	52.2		ug/L	104%	78 - 133	9082153	08/09/09 11:08
Hexachlorobutadiene	50.0	52.6		ug/L	105%	70 - 150	9082153	08/09/09 11:08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9082153-BS1								
2-Hexanone	250	267		ug/L	107%	60 - 150	9082153	08/09/09 11:08
Isopropylbenzene	50.0	47.2		ug/L	94%	69 - 120	9082153	08/09/09 11:08
p-Isopropyltoluene	50.0	54.5		ug/L	109%	72 - 134	9082153	08/09/09 11:08
Methyl tert-Butyl Ether	50.0	49.4		ug/L	99%	76 - 120	9082153	08/09/09 11:08
Methylene Chloride	50.0	52.0		ug/L	104%	80 - 133	9082153	08/09/09 11:08
4-Methyl-2-pentanone	250	301		ug/L	120%	62 - 146	9082153	08/09/09 11:08
Naphthalene	50.0	50.0		ug/L	100%	71 - 139	9082153	08/09/09 11:08
n-Propylbenzene	50.0	51.1		ug/L	102%	70 - 143	9082153	08/09/09 11:08
Styrene	50.0	51.2		ug/L	102%	80 - 136	9082153	08/09/09 11:08
1,1,1,2-Tetrachloroethane	50.0	48.6		ug/L	97%	80 - 130	9082153	08/09/09 11:08
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L	104%	73 - 131	9082153	08/09/09 11:08
Tetrachloroethene	50.0	51.0		ug/L	102%	77 - 131	9082153	08/09/09 11:08
Toluene	50.0	50.4		ug/L	101%	78 - 125	9082153	08/09/09 11:08
1,2,3-Trichlorobenzene	50.0	55.1		ug/L	110%	71 - 138	9082153	08/09/09 11:08
1,2,4-Trichlorobenzene	50.0	48.1		ug/L	96%	74 - 136	9082153	08/09/09 11:08
1,1,2-Trichloroethane	50.0	50.9		ug/L	102%	80 - 123	9082153	08/09/09 11:08
1,1,1-Trichloroethane	50.0	47.4		ug/L	95%	75 - 137	9082153	08/09/09 11:08
Trichloroethene	50.0	49.6		ug/L	99%	74 - 139	9082153	08/09/09 11:08
Trichlorofluoromethane	50.0	39.2		ug/L	78%	60 - 133	9082153	08/09/09 11:08
1,2,3-Trichloropropane	50.0	50.6		ug/L	101%	64 - 127	9082153	08/09/09 11:08
1,3,5-Trimethylbenzene	50.0	47.8		ug/L	96%	75 - 134	9082153	08/09/09 11:08
1,2,4-Trimethylbenzene	50.0	54.4		ug/L	109%	77 - 134	9082153	08/09/09 11:08
Vinyl chloride	50.0	43.9		ug/L	88%	60 - 122	9082153	08/09/09 11:08
Xylenes, total	150	160		ug/L	107%	78 - 134	9082153	08/09/09 11:08
Surrogate: 1,2-Dichloroethane-d4	25.0	24.5			98%	63 - 140	9082153	08/09/09 11:08
Surrogate: Dibromofluoromethane	25.0	25.6			102%	73 - 131	9082153	08/09/09 11:08
Surrogate: Toluene-d8	25.0	26.6			106%	80 - 120	9082153	08/09/09 11:08
Surrogate: 4-Bromofluorobenzene	25.0	25.2			101%	79 - 125	9082153	08/09/09 11:08
9082268-BS1								
Acetone	250	356		ug/L	143%	56 - 150	9082268	08/11/09 00:41
Benzene	50.0	49.0		ug/L	98%	80 - 121	9082268	08/11/09 00:41
Bromobenzene	50.0	48.1		ug/L	96%	72 - 130	9082268	08/11/09 00:41
Bromochloromethane	50.0	52.2		ug/L	104%	73 - 137	9082268	08/11/09 00:41
Bromodichloromethane	50.0	52.6		ug/L	105%	75 - 131	9082268	08/11/09 00:41
Bromoform	50.0	50.7		ug/L	101%	65 - 140	9082268	08/11/09 00:41
Bromomethane	50.0	54.4		ug/L	109%	50 - 150	9082268	08/11/09 00:41
2-Butanone	250	295		ug/L	118%	70 - 144	9082268	08/11/09 00:41
sec-Butylbenzene	50.0	50.2		ug/L	100%	72 - 140	9082268	08/11/09 00:41
n-Butylbenzene	50.0	52.1		ug/L	104%	68 - 140	9082268	08/11/09 00:41

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9082268-BS1								
tert-Butylbenzene	50.0	47.1		ug/L	94%	76 - 135	9082268	08/11/09 00:41
Carbon disulfide	50.0	50.8		ug/L	102%	74 - 137	9082268	08/11/09 00:41
Carbon Tetrachloride	50.0	44.4		ug/L	89%	71 - 137	9082268	08/11/09 00:41
Chlorobenzene	50.0	50.5		ug/L	101%	80 - 121	9082268	08/11/09 00:41
Chlorodibromomethane	50.0	52.3		ug/L	105%	68 - 137	9082268	08/11/09 00:41
Chloroethane	50.0	52.7		ug/L	105%	50 - 146	9082268	08/11/09 00:41
Chloroform	50.0	46.5		ug/L	93%	73 - 131	9082268	08/11/09 00:41
Chloromethane	50.0	33.2		ug/L	66%	30 - 132	9082268	08/11/09 00:41
2-Chlorotoluene	50.0	50.0		ug/L	100%	74 - 135	9082268	08/11/09 00:41
4-Chlorotoluene	50.0	50.5		ug/L	101%	74 - 132	9082268	08/11/09 00:41
1,2-Dibromo-3-chloropropane	50.0	48.0		ug/L	96%	56 - 145	9082268	08/11/09 00:41
1,2-Dibromoethane (EDB)	50.0	58.2		ug/L	116%	80 - 135	9082268	08/11/09 00:41
Dibromomethane	50.0	51.2		ug/L	102%	78 - 133	9082268	08/11/09 00:41
1,4-Dichlorobenzene	50.0	49.3		ug/L	99%	80 - 120	9082268	08/11/09 00:41
1,3-Dichlorobenzene	50.0	50.8		ug/L	102%	80 - 128	9082268	08/11/09 00:41
1,2-Dichlorobenzene	50.0	55.0		ug/L	110%	80 - 125	9082268	08/11/09 00:41
Dichlorodifluoromethane	50.0	32.2		ug/L	64%	30 - 132	9082268	08/11/09 00:41
1,1-Dichloroethane	50.0	48.3		ug/L	97%	75 - 125	9082268	08/11/09 00:41
1,2-Dichloroethane	50.0	48.6		ug/L	97%	70 - 134	9082268	08/11/09 00:41
cis-1,2-Dichloroethene	50.0	46.9		ug/L	94%	71 - 132	9082268	08/11/09 00:41
1,1-Dichloroethene	50.0	52.4		ug/L	105%	73 - 125	9082268	08/11/09 00:41
trans-1,2-Dichloroethene	50.0	47.8		ug/L	96%	77 - 125	9082268	08/11/09 00:41
1,3-Dichloropropane	50.0	54.6		ug/L	109%	76 - 125	9082268	08/11/09 00:41
1,2-Dichloropropane	50.0	46.4		ug/L	93%	72 - 120	9082268	08/11/09 00:41
2,2-Dichloropropane	50.0	39.0		ug/L	78%	50 - 150	9082268	08/11/09 00:41
cis-1,3-Dichloropropene	50.0	51.0		ug/L	102%	70 - 140	9082268	08/11/09 00:41
trans-1,3-Dichloropropene	50.0	48.5		ug/L	97%	62 - 139	9082268	08/11/09 00:41
1,1-Dichloropropene	50.0	48.7		ug/L	97%	78 - 126	9082268	08/11/09 00:41
Ethylbenzene	50.0	54.9		ug/L	110%	78 - 133	9082268	08/11/09 00:41
Hexachlorobutadiene	50.0	52.2		ug/L	104%	70 - 150	9082268	08/11/09 00:41
2-Hexanone	250	298		ug/L	119%	60 - 150	9082268	08/11/09 00:41
Isopropylbenzene	50.0	50.2		ug/L	100%	69 - 120	9082268	08/11/09 00:41
p-Isopropyltoluene	50.0	55.2		ug/L	110%	72 - 134	9082268	08/11/09 00:41
Methyl tert-Butyl Ether	50.0	50.4		ug/L	101%	76 - 120	9082268	08/11/09 00:41
Methylene Chloride	50.0	55.0		ug/L	110%	80 - 133	9082268	08/11/09 00:41
4-Methyl-2-pentanone	250	326		ug/L	131%	62 - 146	9082268	08/11/09 00:41
Naphthalene	50.0	51.6		ug/L	103%	71 - 139	9082268	08/11/09 00:41
n-Propylbenzene	50.0	51.1		ug/L	102%	70 - 143	9082268	08/11/09 00:41
Styrene	50.0	54.8		ug/L	110%	80 - 136	9082268	08/11/09 00:41
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/L	103%	80 - 130	9082268	08/11/09 00:41

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9082268-BS1								
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L	98%	73 - 131	9082268	08/11/09 00:41
Tetrachloroethene	50.0	53.3		ug/L	107%	77 - 131	9082268	08/11/09 00:41
Toluene	50.0	53.7		ug/L	107%	78 - 125	9082268	08/11/09 00:41
1,2,3-Trichlorobenzene	50.0	57.7		ug/L	115%	71 - 138	9082268	08/11/09 00:41
1,2,4-Trichlorobenzene	50.0	49.3		ug/L	99%	74 - 136	9082268	08/11/09 00:41
1,1,2-Trichloroethane	50.0	55.7		ug/L	111%	80 - 123	9082268	08/11/09 00:41
1,1,1-Trichloroethane	50.0	48.3		ug/L	97%	75 - 137	9082268	08/11/09 00:41
Trichloroethene	50.0	53.4		ug/L	107%	74 - 139	9082268	08/11/09 00:41
Trichlorofluoromethane	50.0	42.6		ug/L	85%	60 - 133	9082268	08/11/09 00:41
1,2,3-Trichloropropane	50.0	47.6		ug/L	95%	64 - 127	9082268	08/11/09 00:41
1,3,5-Trimethylbenzene	50.0	48.1		ug/L	96%	75 - 134	9082268	08/11/09 00:41
1,2,4-Trimethylbenzene	50.0	55.4		ug/L	111%	77 - 134	9082268	08/11/09 00:41
Vinyl chloride	50.0	42.3		ug/L	85%	60 - 122	9082268	08/11/09 00:41
Xylenes, total	150	169		ug/L	113%	78 - 134	9082268	08/11/09 00:41
Surrogate: 1,2-Dichloroethane-d4	25.0	24.7			99%	63 - 140	9082268	08/11/09 00:41
Surrogate: Dibromofluoromethane	25.0	25.9			104%	73 - 131	9082268	08/11/09 00:41
Surrogate: Toluene-d8	25.0	27.0			108%	80 - 120	9082268	08/11/09 00:41
Surrogate: 4-Bromofluorobenzene	25.0	23.6			94%	79 - 125	9082268	08/11/09 00:41
9082787-BS1								
Acetone	250	247	MNR1	ug/L	99%	56 - 150	9082787	08/13/09 09:53
Benzene	50.0	46.5	MNR1	ug/L	93%	80 - 121	9082787	08/13/09 09:53
Bromobenzene	50.0	47.6	MNR1	ug/L	95%	72 - 130	9082787	08/13/09 09:53
Bromochloromethane	50.0	50.7	MNR1	ug/L	101%	73 - 137	9082787	08/13/09 09:53
Bromodichloromethane	50.0	44.3	MNR1	ug/L	89%	75 - 131	9082787	08/13/09 09:53
Bromoform	50.0	41.7	MNR1	ug/L	83%	65 - 140	9082787	08/13/09 09:53
Bromomethane	50.0	58.5	MNR1	ug/L	117%	50 - 150	9082787	08/13/09 09:53
2-Butanone	250	234	MNR1	ug/L	94%	70 - 144	9082787	08/13/09 09:53
sec-Butylbenzene	50.0	50.8	MNR1	ug/L	102%	72 - 140	9082787	08/13/09 09:53
n-Butylbenzene	50.0	44.1	MNR1	ug/L	88%	68 - 140	9082787	08/13/09 09:53
tert-Butylbenzene	50.0	50.2	MNR1	ug/L	100%	76 - 135	9082787	08/13/09 09:53
Carbon disulfide	50.0	55.0	MNR1	ug/L	110%	74 - 137	9082787	08/13/09 09:53
Carbon Tetrachloride	50.0	43.7	MNR1	ug/L	87%	71 - 137	9082787	08/13/09 09:53
Chlorobenzene	50.0	46.4	MNR1	ug/L	93%	80 - 121	9082787	08/13/09 09:53
Chlorodibromomethane	50.0	43.5	MNR1	ug/L	87%	68 - 137	9082787	08/13/09 09:53
Chloroethane	50.0	45.9	MNR1	ug/L	92%	50 - 146	9082787	08/13/09 09:53
Chloroform	50.0	53.1	MNR1	ug/L	106%	73 - 131	9082787	08/13/09 09:53
Chloromethane	50.0	38.9	MNR1	ug/L	78%	30 - 132	9082787	08/13/09 09:53
2-Chlorotoluene	50.0	48.5	MNR1	ug/L	97%	74 - 135	9082787	08/13/09 09:53
4-Chlorotoluene	50.0	48.6	MNR1	ug/L	97%	74 - 132	9082787	08/13/09 09:53

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9082787-BS1								
1,2-Dibromo-3-chloropropane	50.0	40.9	MNR1	ug/L	82%	56 - 145	9082787	08/13/09 09:53
1,2-Dibromoethane (EDB)	50.0	49.4	MNR1	ug/L	99%	80 - 135	9082787	08/13/09 09:53
Dibromomethane	50.0	47.4	MNR1	ug/L	95%	78 - 133	9082787	08/13/09 09:53
1,4-Dichlorobenzene	50.0	47.4	MNR1	ug/L	95%	80 - 120	9082787	08/13/09 09:53
1,3-Dichlorobenzene	50.0	48.2	MNR1	ug/L	96%	80 - 128	9082787	08/13/09 09:53
1,2-Dichlorobenzene	50.0	48.5	MNR1	ug/L	97%	80 - 125	9082787	08/13/09 09:53
Dichlorodifluoromethane	50.0	43.1	MNR1	ug/L	86%	30 - 132	9082787	08/13/09 09:53
1,1-Dichloroethane	50.0	48.9	MNR1	ug/L	98%	75 - 125	9082787	08/13/09 09:53
1,2-Dichloroethane	50.0	44.9	MNR1	ug/L	90%	70 - 134	9082787	08/13/09 09:53
cis-1,2-Dichloroethene	50.0	50.0	MNR1	ug/L	100%	71 - 132	9082787	08/13/09 09:53
1,1-Dichloroethene	50.0	51.5	MNR1	ug/L	103%	73 - 125	9082787	08/13/09 09:53
trans-1,2-Dichloroethene	50.0	50.0	MNR1	ug/L	100%	77 - 125	9082787	08/13/09 09:53
1,3-Dichloropropane	50.0	46.6	MNR1	ug/L	93%	76 - 125	9082787	08/13/09 09:53
1,2-Dichloropropane	50.0	46.3	MNR1	ug/L	93%	72 - 120	9082787	08/13/09 09:53
2,2-Dichloropropane	50.0	56.3	MNR1	ug/L	113%	50 - 150	9082787	08/13/09 09:53
cis-1,3-Dichloropropene	50.0	45.3	MNR1	ug/L	91%	70 - 140	9082787	08/13/09 09:53
trans-1,3-Dichloropropene	50.0	43.4	MNR1	ug/L	87%	62 - 139	9082787	08/13/09 09:53
1,1-Dichloropropene	50.0	52.9	MNR1	ug/L	106%	78 - 126	9082787	08/13/09 09:53
Ethylbenzene	50.0	48.6	MNR1	ug/L	97%	78 - 133	9082787	08/13/09 09:53
Hexachlorobutadiene	50.0	50.8	MNR1	ug/L	102%	70 - 150	9082787	08/13/09 09:53
2-Hexanone	250	241	MNR1	ug/L	96%	60 - 150	9082787	08/13/09 09:53
Isopropylbenzene	50.0	50.2	MNR1	ug/L	100%	69 - 120	9082787	08/13/09 09:53
p-Isopropyltoluene	50.0	49.6	MNR1	ug/L	99%	72 - 134	9082787	08/13/09 09:53
Methyl tert-Butyl Ether	50.0	46.9	MNR1	ug/L	94%	76 - 120	9082787	08/13/09 09:53
Methylene Chloride	50.0	49.8	MNR1	ug/L	100%	80 - 133	9082787	08/13/09 09:53
4-Methyl-2-pentanone	250	235	MNR1	ug/L	94%	62 - 146	9082787	08/13/09 09:53
Naphthalene	50.0	49.8	MNR1	ug/L	100%	71 - 139	9082787	08/13/09 09:53
n-Propylbenzene	50.0	49.1	MNR1	ug/L	98%	70 - 143	9082787	08/13/09 09:53
Styrene	50.0	51.3	MNR1	ug/L	103%	80 - 136	9082787	08/13/09 09:53
1,1,1,2-Tetrachloroethane	50.0	44.6	MNR1	ug/L	89%	80 - 130	9082787	08/13/09 09:53
1,1,2,2-Tetrachloroethane	50.0	46.7	MNR1	ug/L	93%	73 - 131	9082787	08/13/09 09:53
Tetrachloroethene	50.0	48.3	MNR1	ug/L	97%	77 - 131	9082787	08/13/09 09:53
Toluene	50.0	47.2	MNR1	ug/L	94%	78 - 125	9082787	08/13/09 09:53
1,2,3-Trichlorobenzene	50.0	47.6	MNR1	ug/L	95%	71 - 138	9082787	08/13/09 09:53
1,2,4-Trichlorobenzene	50.0	50.1	MNR1	ug/L	100%	74 - 136	9082787	08/13/09 09:53
1,1,2-Trichloroethane	50.0	46.6	MNR1	ug/L	93%	80 - 123	9082787	08/13/09 09:53
1,1,1-Trichloroethane	50.0	46.2	MNR1	ug/L	92%	75 - 137	9082787	08/13/09 09:53
Trichloroethene	50.0	48.0	MNR1	ug/L	96%	74 - 139	9082787	08/13/09 09:53
Trichlorofluoromethane	50.0	46.7	MNR1	ug/L	93%	60 - 133	9082787	08/13/09 09:53
1,2,3-Trichloropropane	50.0	45.2	MNR1	ug/L	90%	64 - 127	9082787	08/13/09 09:53

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9082787-BS1								
1,3,5-Trimethylbenzene	50.0	50.4	MNR1	ug/L	101%	75 - 134	9082787	08/13/09 09:53
1,2,4-Trimethylbenzene	50.0	51.6	MNR1	ug/L	103%	77 - 134	9082787	08/13/09 09:53
Vinyl chloride	50.0	46.1	MNR1	ug/L	92%	60 - 122	9082787	08/13/09 09:53
Xylenes, total	150	148	MNR1	ug/L	98%	78 - 134	9082787	08/13/09 09:53
Surrogate: 1,2-Dichloroethane-d4	25.0	25.2			101%	63 - 140	9082787	08/13/09 09:53
Surrogate: Dibromofluoromethane	25.0	27.4			109%	73 - 131	9082787	08/13/09 09:53
Surrogate: Toluene-d8	25.0	24.8			99%	80 - 120	9082787	08/13/09 09:53
Surrogate: 4-Bromofluorobenzene	25.0	25.0			100%	79 - 125	9082787	08/13/09 09:53

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082153-BSD1												
Acetone		254		ug/L	250	102%	56 - 150	2	31	9082153		08/09/09 11:36
Benzene		46.6		ug/L	50.0	93%	80 - 121	0.9	12	9082153		08/09/09 11:36
Bromobenzene		48.4		ug/L	50.0	97%	72 - 130	0.4	23	9082153		08/09/09 11:36
Bromochloromethane		48.8		ug/L	50.0	98%	73 - 137	0.1	32	9082153		08/09/09 11:36
Bromodichloromethane		51.0		ug/L	50.0	102%	75 - 131	1	13	9082153		08/09/09 11:36
Bromoform		49.1		ug/L	50.0	98%	65 - 140	2	18	9082153		08/09/09 11:36
Bromomethane		49.0		ug/L	50.0	98%	50 - 150	2	50	9082153		08/09/09 11:36
2-Butanone		256		ug/L	250	102%	70 - 144	2	37	9082153		08/09/09 11:36
sec-Butylbenzene		49.2		ug/L	50.0	98%	72 - 140	0.1	21	9082153		08/09/09 11:36
n-Butylbenzene		52.2		ug/L	50.0	104%	68 - 140	0.8	11	9082153		08/09/09 11:36
tert-Butylbenzene		46.1		ug/L	50.0	92%	76 - 135	0.3	20	9082153		08/09/09 11:36
Carbon disulfide		50.2		ug/L	50.0	100%	74 - 137	3	28	9082153		08/09/09 11:36
Carbon Tetrachloride		44.3		ug/L	50.0	89%	71 - 137	2	26	9082153		08/09/09 11:36
Chlorobenzene		48.1		ug/L	50.0	96%	80 - 121	0.7	11	9082153		08/09/09 11:36
Chlorodibromomethane		50.0		ug/L	50.0	100%	68 - 137	1	16	9082153		08/09/09 11:36
Chloroethane		51.4		ug/L	50.0	103%	50 - 146	0.3	35	9082153		08/09/09 11:36
Chloroform		44.3		ug/L	50.0	89%	73 - 131	1	32	9082153		08/09/09 11:36
Chloromethane		32.1		ug/L	50.0	64%	30 - 132	2	34	9082153		08/09/09 11:36
2-Chlorotoluene		49.6		ug/L	50.0	99%	74 - 135	0.4	22	9082153		08/09/09 11:36
4-Chlorotoluene		50.2		ug/L	50.0	100%	74 - 132	0.1	22	9082153		08/09/09 11:36
1,2-Dibromo-3-chloropropane		49.7		ug/L	50.0	99%	56 - 145	3	21	9082153		08/09/09 11:36
1,2-Dibromoethane (EDB)		54.9		ug/L	50.0	110%	80 - 135	2	10	9082153		08/09/09 11:36
Dibromomethane		48.4		ug/L	50.0	97%	78 - 133	0.4	11	9082153		08/09/09 11:36
1,4-Dichlorobenzene		47.9		ug/L	50.0	96%	80 - 120	1	10	9082153		08/09/09 11:36
1,3-Dichlorobenzene		49.4		ug/L	50.0	99%	80 - 128	0.3	18	9082153		08/09/09 11:36
1,2-Dichlorobenzene		52.5		ug/L	50.0	105%	80 - 125	0.6	11	9082153		08/09/09 11:36
Dichlorodifluoromethane		34.4		ug/L	50.0	69%	30 - 132	0.06	32	9082153		08/09/09 11:36
1,1-Dichloroethane		46.0		ug/L	50.0	92%	75 - 125	2	34	9082153		08/09/09 11:36
1,2-Dichloroethane		45.8		ug/L	50.0	92%	70 - 134	2	25	9082153		08/09/09 11:36
cis-1,2-Dichloroethene		46.0		ug/L	50.0	92%	71 - 132	2	32	9082153		08/09/09 11:36
1,1-Dichloroethene		49.7		ug/L	50.0	99%	73 - 125	0.4	31	9082153		08/09/09 11:36
trans-1,2-Dichloroethene		45.8		ug/L	50.0	92%	77 - 125	0.1	32	9082153		08/09/09 11:36
1,3-Dichloropropane		50.3		ug/L	50.0	101%	76 - 125	0.8	20	9082153		08/09/09 11:36
1,2-Dichloropropane		44.3		ug/L	50.0	89%	72 - 120	0.6	11	9082153		08/09/09 11:36
2,2-Dichloropropane		53.3		ug/L	50.0	107%	50 - 150	3	11	9082153		08/09/09 11:36
cis-1,3-Dichloropropene		50.7		ug/L	50.0	101%	70 - 140	0.5	35	9082153		08/09/09 11:36
trans-1,3-Dichloropropene		49.8		ug/L	50.0	100%	62 - 139	2	26	9082153		08/09/09 11:36
1,1-Dichloropropene		48.0		ug/L	50.0	96%	78 - 126	0.4	18	9082153		08/09/09 11:36
Ethylbenzene		52.2		ug/L	50.0	104%	78 - 133	0.2	12	9082153		08/09/09 11:36
Hexachlorobutadiene		53.0		ug/L	50.0	106%	70 - 150	0.6	21	9082153		08/09/09 11:36

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSH0589 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082153-BSD1												
2-Hexanone		271		ug/L	250	108%	60 - 150	1	20	9082153		08/09/09 11:36
Isopropylbenzene		47.6		ug/L	50.0	95%	69 - 120	0.7	15	9082153		08/09/09 11:36
p-Isopropyltoluene		54.3		ug/L	50.0	109%	72 - 134	0.3	18	9082153		08/09/09 11:36
Methyl tert-Butyl Ether		49.5		ug/L	50.0	99%	76 - 120	0.1	32	9082153		08/09/09 11:36
Methylene Chloride		51.5		ug/L	50.0	103%	80 - 133	1	36	9082153		08/09/09 11:36
4-Methyl-2-pentanone		306		ug/L	250	122%	62 - 146	2	35	9082153		08/09/09 11:36
Naphthalene		50.5		ug/L	50.0	101%	71 - 139	1	30	9082153		08/09/09 11:36
n-Propylbenzene		50.9		ug/L	50.0	102%	70 - 143	0.3	23	9082153		08/09/09 11:36
Styrene		51.6		ug/L	50.0	103%	80 - 136	0.8	29	9082153		08/09/09 11:36
1,1,1,2-Tetrachloroethane		48.8		ug/L	50.0	98%	80 - 130	0.5	11	9082153		08/09/09 11:36
1,1,2,2-Tetrachloroethane		53.1		ug/L	50.0	106%	73 - 131	2	28	9082153		08/09/09 11:36
Tetrachloroethene		51.2		ug/L	50.0	102%	77 - 131	0.4	16	9082153		08/09/09 11:36
Toluene		50.5		ug/L	50.0	101%	78 - 125	0.4	35	9082153		08/09/09 11:36
1,2,3-Trichlorobenzene		56.0		ug/L	50.0	112%	71 - 138	2	28	9082153		08/09/09 11:36
1,2,4-Trichlorobenzene		48.9		ug/L	50.0	98%	74 - 136	2	23	9082153		08/09/09 11:36
1,1,2-Trichloroethane		51.6		ug/L	50.0	103%	80 - 123	1	21	9082153		08/09/09 11:36
1,1,1-Trichloroethane		47.1		ug/L	50.0	94%	75 - 137	0.8	29	9082153		08/09/09 11:36
Trichloroethene		49.0		ug/L	50.0	98%	74 - 139	1	11	9082153		08/09/09 11:36
Trichlorofluoromethane		39.0		ug/L	50.0	78%	60 - 133	0.5	33	9082153		08/09/09 11:36
1,2,3-Trichloropropane		50.5		ug/L	50.0	101%	64 - 127	0.2	25	9082153		08/09/09 11:36
1,3,5-Trimethylbenzene		47.7		ug/L	50.0	95%	75 - 134	0.3	21	9082153		08/09/09 11:36
1,2,4-Trimethylbenzene		54.4		ug/L	50.0	109%	77 - 134	0.02	20	9082153		08/09/09 11:36
Vinyl chloride		43.7		ug/L	50.0	87%	60 - 122	0.5	32	9082153		08/09/09 11:36
Xylenes, total		160		ug/L	150	107%	78 - 134	0.1	18	9082153		08/09/09 11:36
Surrogate: 1,2-Dichloroethane-d4		24.5		ug/L	25.0	98%	63 - 140			9082153		08/09/09 11:36
Surrogate: Dibromofluoromethane		26.0		ug/L	25.0	104%	73 - 131			9082153		08/09/09 11:36
Surrogate: Toluene-d8		26.3		ug/L	25.0	105%	80 - 120			9082153		08/09/09 11:36
Surrogate: 4-Bromofluorobenzene		25.2		ug/L	25.0	101%	79 - 125			9082153		08/09/09 11:36
9082268-BSD1												
Acetone		325		ug/L	250	130%	56 - 150	9	31	9082268		08/11/09 01:09
Benzene		50.5		ug/L	50.0	101%	80 - 121	3	12	9082268		08/11/09 01:09
Bromobenzene		48.6		ug/L	50.0	97%	72 - 130	1	23	9082268		08/11/09 01:09
Bromochloromethane		52.5		ug/L	50.0	105%	73 - 137	0.5	32	9082268		08/11/09 01:09
Bromodichloromethane		53.5		ug/L	50.0	107%	75 - 131	2	13	9082268		08/11/09 01:09
Bromoform		51.0		ug/L	50.0	102%	65 - 140	0.7	18	9082268		08/11/09 01:09
Bromomethane		56.3		ug/L	50.0	113%	50 - 150	3	50	9082268		08/11/09 01:09
2-Butanone		278		ug/L	250	111%	70 - 144	6	37	9082268		08/11/09 01:09
sec-Butylbenzene		52.3		ug/L	50.0	105%	72 - 140	4	21	9082268		08/11/09 01:09
n-Butylbenzene		54.5		ug/L	50.0	109%	68 - 140	5	11	9082268		08/11/09 01:09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082268-BSD1												
tert-Butylbenzene		48.8		ug/L	50.0	98%	76 - 135	4	20	9082268		08/11/09 01:09
Carbon disulfide		53.6		ug/L	50.0	107%	74 - 137	5	28	9082268		08/11/09 01:09
Carbon Tetrachloride		47.6		ug/L	50.0	95%	71 - 137	7	26	9082268		08/11/09 01:09
Chlorobenzene		52.5		ug/L	50.0	105%	80 - 121	4	11	9082268		08/11/09 01:09
Chlorodibromomethane		53.0		ug/L	50.0	106%	68 - 137	1	16	9082268		08/11/09 01:09
Chloroethane		54.5		ug/L	50.0	109%	50 - 146	3	35	9082268		08/11/09 01:09
Chloroform		47.3		ug/L	50.0	95%	73 - 131	2	32	9082268		08/11/09 01:09
Chloromethane		35.0		ug/L	50.0	70%	30 - 132	5	34	9082268		08/11/09 01:09
2-Chlorotoluene		51.2		ug/L	50.0	102%	74 - 135	2	22	9082268		08/11/09 01:09
4-Chlorotoluene		51.9		ug/L	50.0	104%	74 - 132	3	22	9082268		08/11/09 01:09
1,2-Dibromo-3-chloropropane		47.9		ug/L	50.0	96%	56 - 145	0.3	21	9082268		08/11/09 01:09
1,2-Dibromoethane (EDB)		58.4		ug/L	50.0	117%	80 - 135	0.2	10	9082268		08/11/09 01:09
Dibromomethane		51.8		ug/L	50.0	104%	78 - 133	1	11	9082268		08/11/09 01:09
1,4-Dichlorobenzene		50.6		ug/L	50.0	101%	80 - 120	3	10	9082268		08/11/09 01:09
1,3-Dichlorobenzene		52.3		ug/L	50.0	105%	80 - 128	3	18	9082268		08/11/09 01:09
1,2-Dichlorobenzene		56.4		ug/L	50.0	113%	80 - 125	3	11	9082268		08/11/09 01:09
Dichlorodifluoromethane		33.7		ug/L	50.0	67%	30 - 132	5	32	9082268		08/11/09 01:09
1,1-Dichloroethane		49.1		ug/L	50.0	98%	75 - 125	2	34	9082268		08/11/09 01:09
1,2-Dichloroethane		49.0		ug/L	50.0	98%	70 - 134	0.9	25	9082268		08/11/09 01:09
cis-1,2-Dichloroethene		48.3		ug/L	50.0	97%	71 - 132	3	32	9082268		08/11/09 01:09
1,1-Dichloroethene		54.6		ug/L	50.0	109%	73 - 125	4	31	9082268		08/11/09 01:09
trans-1,2-Dichloroethene		49.5		ug/L	50.0	99%	77 - 125	3	32	9082268		08/11/09 01:09
1,3-Dichloropropane		55.0		ug/L	50.0	110%	76 - 125	0.8	20	9082268		08/11/09 01:09
1,2-Dichloropropane		46.8		ug/L	50.0	94%	72 - 120	0.9	11	9082268		08/11/09 01:09
2,2-Dichloropropane		40.8		ug/L	50.0	82%	50 - 150	4	11	9082268		08/11/09 01:09
cis-1,3-Dichloropropene		52.5		ug/L	50.0	105%	70 - 140	3	35	9082268		08/11/09 01:09
trans-1,3-Dichloropropene		49.3		ug/L	50.0	99%	62 - 139	2	26	9082268		08/11/09 01:09
1,1-Dichloropropene		51.5		ug/L	50.0	103%	78 - 126	6	18	9082268		08/11/09 01:09
Ethylbenzene		57.1		ug/L	50.0	114%	78 - 133	4	12	9082268		08/11/09 01:09
Hexachlorobutadiene		54.4		ug/L	50.0	109%	70 - 150	4	21	9082268		08/11/09 01:09
2-Hexanone		287		ug/L	250	115%	60 - 150	4	20	9082268		08/11/09 01:09
Isopropylbenzene		52.8		ug/L	50.0	106%	69 - 120	5	15	9082268		08/11/09 01:09
p-Isopropyltoluene		57.3		ug/L	50.0	115%	72 - 134	4	18	9082268		08/11/09 01:09
Methyl tert-Butyl Ether		49.9		ug/L	50.0	100%	76 - 120	1	32	9082268		08/11/09 01:09
Methylene Chloride		55.3		ug/L	50.0	111%	80 - 133	0.5	36	9082268		08/11/09 01:09
4-Methyl-2-pentanone		323		ug/L	250	129%	62 - 146	1	35	9082268		08/11/09 01:09
Naphthalene		51.2		ug/L	50.0	102%	71 - 139	0.8	30	9082268		08/11/09 01:09
n-Propylbenzene		52.7		ug/L	50.0	105%	70 - 143	3	23	9082268		08/11/09 01:09
Styrene		56.6		ug/L	50.0	113%	80 - 136	3	29	9082268		08/11/09 01:09
1,1,1,2-Tetrachloroethane		52.9		ug/L	50.0	106%	80 - 130	3	11	9082268		08/11/09 01:09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082268-BSD1												
1,1,2,2-Tetrachloroethane		50.8		ug/L	50.0	102%	73 - 131	3	28	9082268		08/11/09 01:09
Tetrachloroethene		56.1		ug/L	50.0	112%	77 - 131	5	16	9082268		08/11/09 01:09
Toluene		55.8		ug/L	50.0	112%	78 - 125	4	35	9082268		08/11/09 01:09
1,2,3-Trichlorobenzene		58.2		ug/L	50.0	116%	71 - 138	0.8	28	9082268		08/11/09 01:09
1,2,4-Trichlorobenzene		50.2		ug/L	50.0	100%	74 - 136	2	23	9082268		08/11/09 01:09
1,1,2-Trichloroethane		56.3		ug/L	50.0	113%	80 - 123	1	21	9082268		08/11/09 01:09
1,1,1-Trichloroethane		49.8		ug/L	50.0	100%	75 - 137	3	29	9082268		08/11/09 01:09
Trichloroethene		54.0		ug/L	50.0	108%	74 - 139	1	11	9082268		08/11/09 01:09
Trichlorofluoromethane		44.4		ug/L	50.0	89%	60 - 133	4	33	9082268		08/11/09 01:09
1,2,3-Trichloropropane		47.9		ug/L	50.0	96%	64 - 127	0.7	25	9082268		08/11/09 01:09
1,3,5-Trimethylbenzene		49.6		ug/L	50.0	99%	75 - 134	3	21	9082268		08/11/09 01:09
1,2,4-Trimethylbenzene		56.9		ug/L	50.0	114%	77 - 134	3	20	9082268		08/11/09 01:09
Vinyl chloride		44.1		ug/L	50.0	88%	60 - 122	4	32	9082268		08/11/09 01:09
Xylenes, total		176		ug/L	150	117%	78 - 134	4	18	9082268		08/11/09 01:09
Surrogate: 1,2-Dichloroethane-d4		24.7		ug/L	25.0	99%	63 - 140			9082268		08/11/09 01:09
Surrogate: Dibromofluoromethane		26.2		ug/L	25.0	105%	73 - 131			9082268		08/11/09 01:09
Surrogate: Toluene-d8		27.1		ug/L	25.0	108%	80 - 120			9082268		08/11/09 01:09
Surrogate: 4-Bromofluorobenzene		23.5		ug/L	25.0	94%	79 - 125			9082268		08/11/09 01:09
9082787-BSD1												
Acetone		248		ug/L	250	99%	56 - 150	0.2	31	9082787		08/13/09 10:19
Benzene		46.8		ug/L	50.0	94%	80 - 121	0.6	12	9082787		08/13/09 10:19
Bromobenzene		47.7		ug/L	50.0	95%	72 - 130	0.2	23	9082787		08/13/09 10:19
Bromochloromethane		48.0		ug/L	50.0	96%	73 - 137	5	32	9082787		08/13/09 10:19
Bromodichloromethane		43.1		ug/L	50.0	86%	75 - 131	3	13	9082787		08/13/09 10:19
Bromoform		42.2		ug/L	50.0	84%	65 - 140	1	18	9082787		08/13/09 10:19
Bromomethane		59.6		ug/L	50.0	119%	50 - 150	2	50	9082787		08/13/09 10:19
2-Butanone		241		ug/L	250	96%	70 - 144	3	37	9082787		08/13/09 10:19
sec-Butylbenzene		50.3		ug/L	50.0	101%	72 - 140	1	21	9082787		08/13/09 10:19
n-Butylbenzene		43.0		ug/L	50.0	86%	68 - 140	3	11	9082787		08/13/09 10:19
tert-Butylbenzene		49.2		ug/L	50.0	98%	76 - 135	2	20	9082787		08/13/09 10:19
Carbon disulfide		53.2		ug/L	50.0	106%	74 - 137	3	28	9082787		08/13/09 10:19
Carbon Tetrachloride		41.0		ug/L	50.0	82%	71 - 137	6	26	9082787		08/13/09 10:19
Chlorobenzene		46.3		ug/L	50.0	93%	80 - 121	0.3	11	9082787		08/13/09 10:19
Chlorodibromomethane		43.8		ug/L	50.0	88%	68 - 137	0.8	16	9082787		08/13/09 10:19
Chloroethane		45.5		ug/L	50.0	91%	50 - 146	0.8	35	9082787		08/13/09 10:19
Chloroform		46.1		ug/L	50.0	92%	73 - 131	14	32	9082787		08/13/09 10:19
Chloromethane		37.8		ug/L	50.0	76%	30 - 132	3	34	9082787		08/13/09 10:19
2-Chlorotoluene		47.7		ug/L	50.0	95%	74 - 135	2	22	9082787		08/13/09 10:19
4-Chlorotoluene		48.6		ug/L	50.0	97%	74 - 132	0.08	22	9082787		08/13/09 10:19

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082787-BSD1												
1,2-Dibromo-3-chloropropane		43.7		ug/L	50.0	87%	56 - 145	7	21	9082787		08/13/09 10:19
1,2-Dibromoethane (EDB)		51.0		ug/L	50.0	102%	80 - 135	3	10	9082787		08/13/09 10:19
Dibromomethane		48.2		ug/L	50.0	96%	78 - 133	2	11	9082787		08/13/09 10:19
1,4-Dichlorobenzene		47.4		ug/L	50.0	95%	80 - 120	0.08	10	9082787		08/13/09 10:19
1,3-Dichlorobenzene		48.2		ug/L	50.0	96%	80 - 128	0.08	18	9082787		08/13/09 10:19
1,2-Dichlorobenzene		48.5		ug/L	50.0	97%	80 - 125	0.04	11	9082787		08/13/09 10:19
Dichlorodifluoromethane		42.4		ug/L	50.0	85%	30 - 132	2	32	9082787		08/13/09 10:19
1,1-Dichloroethane		47.6		ug/L	50.0	95%	75 - 125	3	34	9082787		08/13/09 10:19
1,2-Dichloroethane		46.7		ug/L	50.0	93%	70 - 134	4	25	9082787		08/13/09 10:19
cis-1,2-Dichloroethene		49.3		ug/L	50.0	99%	71 - 132	1	32	9082787		08/13/09 10:19
1,1-Dichloroethene		50.6		ug/L	50.0	101%	73 - 125	2	31	9082787		08/13/09 10:19
trans-1,2-Dichloroethene		48.9		ug/L	50.0	98%	77 - 125	2	32	9082787		08/13/09 10:19
1,3-Dichloropropane		47.9		ug/L	50.0	96%	76 - 125	3	20	9082787		08/13/09 10:19
1,2-Dichloropropane		46.4		ug/L	50.0	93%	72 - 120	0.06	11	9082787		08/13/09 10:19
2,2-Dichloropropane		54.9		ug/L	50.0	110%	50 - 150	3	11	9082787		08/13/09 10:19
cis-1,3-Dichloropropene		45.6		ug/L	50.0	91%	70 - 140	0.8	35	9082787		08/13/09 10:19
trans-1,3-Dichloropropene		44.5		ug/L	50.0	89%	62 - 139	3	26	9082787		08/13/09 10:19
1,1-Dichloropropene		45.1		ug/L	50.0	90%	78 - 126	16	18	9082787		08/13/09 10:19
Ethylbenzene		48.3		ug/L	50.0	97%	78 - 133	0.6	12	9082787		08/13/09 10:19
Hexachlorobutadiene		50.7		ug/L	50.0	101%	70 - 150	0.1	21	9082787		08/13/09 10:19
2-Hexanone		252		ug/L	250	101%	60 - 150	5	20	9082787		08/13/09 10:19
Isopropylbenzene		49.8		ug/L	50.0	100%	69 - 120	0.8	15	9082787		08/13/09 10:19
p-Isopropyltoluene		48.9		ug/L	50.0	98%	72 - 134	2	18	9082787		08/13/09 10:19
Methyl tert-Butyl Ether		48.2		ug/L	50.0	96%	76 - 120	3	32	9082787		08/13/09 10:19
Methylene Chloride		49.5		ug/L	50.0	99%	80 - 133	0.6	36	9082787		08/13/09 10:19
4-Methyl-2-pentanone		249		ug/L	250	100%	62 - 146	6	35	9082787		08/13/09 10:19
Naphthalene		52.4		ug/L	50.0	105%	71 - 139	5	30	9082787		08/13/09 10:19
n-Propylbenzene		48.5		ug/L	50.0	97%	70 - 143	1	23	9082787		08/13/09 10:19
Styrene		51.2		ug/L	50.0	102%	80 - 136	0.2	29	9082787		08/13/09 10:19
1,1,1,2-Tetrachloroethane		45.0		ug/L	50.0	90%	80 - 130	0.9	11	9082787		08/13/09 10:19
1,1,2,2-Tetrachloroethane		48.5		ug/L	50.0	97%	73 - 131	4	28	9082787		08/13/09 10:19
Tetrachloroethene		47.8		ug/L	50.0	96%	77 - 131	1	16	9082787		08/13/09 10:19
Toluene		47.3		ug/L	50.0	95%	78 - 125	0.3	35	9082787		08/13/09 10:19
1,2,3-Trichlorobenzene		49.1		ug/L	50.0	98%	71 - 138	3	28	9082787		08/13/09 10:19
1,2,4-Trichlorobenzene		51.6		ug/L	50.0	103%	74 - 136	3	23	9082787		08/13/09 10:19
1,1,2-Trichloroethane		47.7		ug/L	50.0	95%	80 - 123	2	21	9082787		08/13/09 10:19
1,1,1-Trichloroethane		42.0		ug/L	50.0	84%	75 - 137	10	29	9082787		08/13/09 10:19
Trichloroethene		47.6		ug/L	50.0	95%	74 - 139	0.7	11	9082787		08/13/09 10:19
Trichlorofluoromethane		46.6		ug/L	50.0	93%	60 - 133	0.3	33	9082787		08/13/09 10:19
1,2,3-Trichloropropane		47.2		ug/L	50.0	94%	64 - 127	4	25	9082787		08/13/09 10:19

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082787-BSD1												
1,3,5-Trimethylbenzene		49.7		ug/L	50.0	99%	75 - 134	1	21	9082787		08/13/09 10:19
1,2,4-Trimethylbenzene		51.0		ug/L	50.0	102%	77 - 134	1	20	9082787		08/13/09 10:19
Vinyl chloride		44.7		ug/L	50.0	89%	60 - 122	3	32	9082787		08/13/09 10:19
Xylenes, total		147		ug/L	150	98%	78 - 134	0.3	18	9082787		08/13/09 10:19
Surrogate: 1,2-Dichloroethane-d4		26.1		ug/L	25.0	104%	63 - 140			9082787		08/13/09 10:19
Surrogate: Dibromofluoromethane		24.2		ug/L	25.0	97%	73 - 131			9082787		08/13/09 10:19
Surrogate: Toluene-d8		25.0		ug/L	25.0	100%	80 - 120			9082787		08/13/09 10:19
Surrogate: 4-Bromofluorobenzene		24.6		ug/L	25.0	98%	79 - 125			9082787		08/13/09 10:19

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THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9082153-MS1										
Acetone	ND	264		ug/L	250	106%	56 - 150	9082153	NSH0614-02	08/12/09 19:34
Benzene	ND	52.5		ug/L	50.0	105%	65 - 151	9082153	NSH0614-02	08/12/09 19:34
Bromobenzene	ND	47.8		ug/L	50.0	96%	69 - 142	9082153	NSH0614-02	08/12/09 19:34
Bromochloromethane	ND	55.0		ug/L	50.0	110%	64 - 154	9082153	NSH0614-02	08/12/09 19:34
Bromodichloromethane	ND	54.3		ug/L	50.0	109%	75 - 138	9082153	NSH0614-02	08/12/09 19:34
Bromoform	ND	51.0		ug/L	50.0	102%	55 - 153	9082153	NSH0614-02	08/12/09 19:34
Bromomethane	ND	59.7		ug/L	50.0	119%	13 - 176	9082153	NSH0614-02	08/12/09 19:34
2-Butanone	ND	278		ug/L	250	111%	45 - 164	9082153	NSH0614-02	08/12/09 19:34
sec-Butylbenzene	ND	52.8		ug/L	50.0	106%	68 - 159	9082153	NSH0614-02	08/12/09 19:34
n-Butylbenzene	ND	55.8		ug/L	50.0	112%	67 - 151	9082153	NSH0614-02	08/12/09 19:34
tert-Butylbenzene	ND	48.7		ug/L	50.0	97%	73 - 153	9082153	NSH0614-02	08/12/09 19:34
Carbon disulfide	ND	55.3		ug/L	50.0	111%	33 - 187	9082153	NSH0614-02	08/12/09 19:34
Carbon Tetrachloride	ND	47.0		ug/L	50.0	94%	64 - 157	9082153	NSH0614-02	08/12/09 19:34
Chlorobenzene	ND	54.0		ug/L	50.0	108%	78 - 136	9082153	NSH0614-02	08/12/09 19:34
Chlorodibromomethane	ND	53.6		ug/L	50.0	107%	64 - 145	9082153	NSH0614-02	08/12/09 19:34
Chloroethane	ND	54.3		ug/L	50.0	109%	48 - 159	9082153	NSH0614-02	08/12/09 19:34
Chloroform	ND	49.2		ug/L	50.0	98%	72 - 145	9082153	NSH0614-02	08/12/09 19:34
Chloromethane	ND	39.2		ug/L	50.0	78%	10 - 194	9082153	NSH0614-02	08/12/09 19:34
2-Chlorotoluene	ND	51.0		ug/L	50.0	102%	66 - 155	9082153	NSH0614-02	08/12/09 19:34
4-Chlorotoluene	ND	51.7		ug/L	50.0	103%	69 - 149	9082153	NSH0614-02	08/12/09 19:34
1,2-Dibromo-3-chloropropane	ND	45.9		ug/L	50.0	92%	49 - 162	9082153	NSH0614-02	08/12/09 19:34
1,2-Dibromoethane (EDB)	ND	59.7		ug/L	50.0	119%	70 - 152	9082153	NSH0614-02	08/12/09 19:34
Dibromomethane	ND	53.2		ug/L	50.0	106%	75 - 141	9082153	NSH0614-02	08/12/09 19:34
1,4-Dichlorobenzene	ND	50.2		ug/L	50.0	100%	75 - 135	9082153	NSH0614-02	08/12/09 19:34
1,3-Dichlorobenzene	ND	51.6		ug/L	50.0	103%	72 - 146	9082153	NSH0614-02	08/12/09 19:34
1,2-Dichlorobenzene	ND	55.4		ug/L	50.0	111%	80 - 136	9082153	NSH0614-02	08/12/09 19:34
Dichlorodifluoromethane	ND	36.4		ug/L	50.0	73%	23 - 159	9082153	NSH0614-02	08/12/09 19:34
1,1-Dichloroethane	0.280	51.7		ug/L	50.0	103%	64 - 154	9082153	NSH0614-02	08/12/09 19:34
1,2-Dichloroethane	ND	50.9		ug/L	50.0	102%	72 - 137	9082153	NSH0614-02	08/12/09 19:34
cis-1,2-Dichloroethene	ND	51.9		ug/L	50.0	104%	57 - 154	9082153	NSH0614-02	08/12/09 19:34
1,1-Dichloroethene	ND	56.9		ug/L	50.0	114%	34 - 151	9082153	NSH0614-02	08/12/09 19:34
trans-1,2-Dichloroethene	ND	51.8		ug/L	50.0	104%	57 - 157	9082153	NSH0614-02	08/12/09 19:34
1,3-Dichloropropane	ND	57.1		ug/L	50.0	114%	71 - 137	9082153	NSH0614-02	08/12/09 19:34
1,2-Dichloropropane	ND	49.2		ug/L	50.0	98%	71 - 139	9082153	NSH0614-02	08/12/09 19:34
2,2-Dichloropropane	ND	52.2		ug/L	50.0	104%	10 - 198	9082153	NSH0614-02	08/12/09 19:34
cis-1,3-Dichloropropene	ND	50.6		ug/L	50.0	101%	56 - 156	9082153	NSH0614-02	08/12/09 19:34

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9082153-MS1										
trans-1,3-Dichloropropene	ND	49.2		ug/L	50.0	98%	47 - 157	9082153	NSH0614-02	08/12/09 19:34
1,1-Dichloropropene	ND	53.1		ug/L	50.0	106%	70 - 155	9082153	NSH0614-02	08/12/09 19:34
Ethylbenzene	ND	59.4		ug/L	50.0	119%	68 - 157	9082153	NSH0614-02	08/12/09 19:34
Hexachlorobutadiene	ND	54.8		ug/L	50.0	110%	47 - 173	9082153	NSH0614-02	08/12/09 19:34
2-Hexanone	ND	295		ug/L	250	118%	57 - 154	9082153	NSH0614-02	08/12/09 19:34
Isopropylbenzene	ND	54.9		ug/L	50.0	110%	69 - 139	9082153	NSH0614-02	08/12/09 19:34
p-Isopropyltoluene	ND	57.3		ug/L	50.0	115%	69 - 151	9082153	NSH0614-02	08/12/09 19:34
Methyl tert-Butyl Ether	ND	46.4		ug/L	50.0	93%	56 - 152	9082153	NSH0614-02	08/12/09 19:34
Methylene Chloride	ND	56.8		ug/L	50.0	114%	71 - 136	9082153	NSH0614-02	08/12/09 19:34
4-Methyl-2-pentanone	3.08	339		ug/L	250	135%	62 - 159	9082153	NSH0614-02	08/12/09 19:34
Naphthalene	ND	50.4		ug/L	50.0	101%	56 - 161	9082153	NSH0614-02	08/12/09 19:34
n-Propylbenzene	ND	53.1		ug/L	50.0	106%	61 - 167	9082153	NSH0614-02	08/12/09 19:34
Styrene	ND	58.4		ug/L	50.0	117%	69 - 150	9082153	NSH0614-02	08/12/09 19:34
1,1,1,2-Tetrachloroethane	ND	53.4		ug/L	50.0	107%	80 - 140	9082153	NSH0614-02	08/12/09 19:34
1,1,2,2-Tetrachloroethane	ND	52.7		ug/L	50.0	105%	76 - 141	9082153	NSH0614-02	08/12/09 19:34
Tetrachloroethene	ND	57.9		ug/L	50.0	116%	63 - 155	9082153	NSH0614-02	08/12/09 19:34
Toluene	0.410	57.4		ug/L	50.0	114%	61 - 153	9082153	NSH0614-02	08/12/09 19:34
1,2,3-Trichlorobenzene	ND	56.4		ug/L	50.0	113%	57 - 155	9082153	NSH0614-02	08/12/09 19:34
1,2,4-Trichlorobenzene	ND	49.0		ug/L	50.0	98%	64 - 147	9082153	NSH0614-02	08/12/09 19:34
1,1,2-Trichloroethane	ND	58.1		ug/L	50.0	116%	74 - 138	9082153	NSH0614-02	08/12/09 19:34
1,1,1-Trichloroethane	ND	51.3		ug/L	50.0	103%	78 - 153	9082153	NSH0614-02	08/12/09 19:34
Trichloroethene	ND	54.8		ug/L	50.0	110%	74 - 139	9082153	NSH0614-02	08/12/09 19:34
Trichlorofluoromethane	ND	46.0		ug/L	50.0	92%	53 - 149	9082153	NSH0614-02	08/12/09 19:34
1,2,3-Trichloropropane	ND	48.1		ug/L	50.0	96%	49 - 148	9082153	NSH0614-02	08/12/09 19:34
1,3,5-Trimethylbenzene	ND	49.2		ug/L	50.0	98%	67 - 151	9082153	NSH0614-02	08/12/09 19:34
1,2,4-Trimethylbenzene	ND	56.4		ug/L	50.0	113%	69 - 150	9082153	NSH0614-02	08/12/09 19:34
Vinyl chloride	ND	45.6		ug/L	50.0	91%	53 - 137	9082153	NSH0614-02	08/12/09 19:34
Xylenes, total	ND	182		ug/L	150	122%	68 - 158	9082153	NSH0614-02	08/12/09 19:34
Surrogate: 1,2-Dichloroethane-d4		25.4		ug/L	25.0	102%	63 - 140	9082153	NSH0614-02	08/12/09 19:34
Surrogate: Dibromofluoromethane		27.2		ug/L	25.0	109%	73 - 131	9082153	NSH0614-02	08/12/09 19:34
Surrogate: Toluene-d8		27.3		ug/L	25.0	109%	80 - 120	9082153	NSH0614-02	08/12/09 19:34
Surrogate: 4-Bromofluorobenzene		22.7		ug/L	25.0	91%	79 - 125	9082153	NSH0614-02	08/12/09 19:34
9082268-MS1										
Acetone	12.7	289		ug/L	250	110%	56 - 150	9082268	NSH0714-05	08/12/09 20:29
Benzene	0.730	52.4		ug/L	50.0	103%	65 - 151	9082268	NSH0714-05	08/12/09 20:29
Bromobenzene	ND	49.2		ug/L	50.0	98%	69 - 142	9082268	NSH0714-05	08/12/09 20:29

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9082268-MS1										
Bromochloromethane	ND	54.4		ug/L	50.0	109%	64 - 154	9082268	NSH0714-05	08/12/09 20:29
Bromodichloromethane	ND	54.3		ug/L	50.0	109%	75 - 138	9082268	NSH0714-05	08/12/09 20:29
Bromoform	ND	49.3		ug/L	50.0	99%	55 - 153	9082268	NSH0714-05	08/12/09 20:29
Bromomethane	ND	62.4		ug/L	50.0	125%	13 - 176	9082268	NSH0714-05	08/12/09 20:29
2-Butanone	9.47	287		ug/L	250	111%	45 - 164	9082268	NSH0714-05	08/12/09 20:29
sec-Butylbenzene	ND	53.8		ug/L	50.0	108%	68 - 159	9082268	NSH0714-05	08/12/09 20:29
n-Butylbenzene	ND	56.7		ug/L	50.0	113%	67 - 151	9082268	NSH0714-05	08/12/09 20:29
tert-Butylbenzene	ND	49.9		ug/L	50.0	100%	73 - 153	9082268	NSH0714-05	08/12/09 20:29
Carbon disulfide	ND	55.8		ug/L	50.0	112%	33 - 187	9082268	NSH0714-05	08/12/09 20:29
Carbon Tetrachloride	ND	47.4		ug/L	50.0	95%	64 - 157	9082268	NSH0714-05	08/12/09 20:29
Chlorobenzene	ND	52.2		ug/L	50.0	104%	78 - 136	9082268	NSH0714-05	08/12/09 20:29
Chlorodibromomethane	ND	51.6		ug/L	50.0	103%	64 - 145	9082268	NSH0714-05	08/12/09 20:29
Chloroethane	ND	54.8		ug/L	50.0	110%	48 - 159	9082268	NSH0714-05	08/12/09 20:29
Chloroform	0.890	49.0		ug/L	50.0	96%	72 - 145	9082268	NSH0714-05	08/12/09 20:29
Chloromethane	ND	41.2		ug/L	50.0	82%	10 - 194	9082268	NSH0714-05	08/12/09 20:29
2-Chlorotoluene	ND	51.6		ug/L	50.0	103%	66 - 155	9082268	NSH0714-05	08/12/09 20:29
4-Chlorotoluene	ND	52.5		ug/L	50.0	105%	69 - 149	9082268	NSH0714-05	08/12/09 20:29
1,2-Dibromo-3-chloropropane	ND	49.7		ug/L	50.0	99%	49 - 162	9082268	NSH0714-05	08/12/09 20:29
1,2-Dibromoethane (EDB)	ND	57.5		ug/L	50.0	115%	70 - 152	9082268	NSH0714-05	08/12/09 20:29
Dibromomethane	ND	53.1		ug/L	50.0	106%	75 - 141	9082268	NSH0714-05	08/12/09 20:29
1,4-Dichlorobenzene	ND	51.0		ug/L	50.0	102%	75 - 135	9082268	NSH0714-05	08/12/09 20:29
1,3-Dichlorobenzene	ND	52.9		ug/L	50.0	106%	72 - 146	9082268	NSH0714-05	08/12/09 20:29
1,2-Dichlorobenzene	ND	55.9		ug/L	50.0	112%	80 - 136	9082268	NSH0714-05	08/12/09 20:29
Dichlorodifluoromethane	ND	38.2		ug/L	50.0	76%	23 - 159	9082268	NSH0714-05	08/12/09 20:29
1,1-Dichloroethane	ND	51.9		ug/L	50.0	104%	64 - 154	9082268	NSH0714-05	08/12/09 20:29
1,2-Dichloroethane	ND	49.6		ug/L	50.0	99%	72 - 137	9082268	NSH0714-05	08/12/09 20:29
cis-1,2-Dichloroethene	ND	51.6		ug/L	50.0	103%	57 - 154	9082268	NSH0714-05	08/12/09 20:29
1,1-Dichloroethene	ND	57.7		ug/L	50.0	115%	34 - 151	9082268	NSH0714-05	08/12/09 20:29
trans-1,2-Dichloroethene	ND	51.2		ug/L	50.0	102%	57 - 157	9082268	NSH0714-05	08/12/09 20:29
1,3-Dichloropropane	ND	54.6		ug/L	50.0	109%	71 - 137	9082268	NSH0714-05	08/12/09 20:29
1,2-Dichloropropane	ND	48.7		ug/L	50.0	97%	71 - 139	9082268	NSH0714-05	08/12/09 20:29
2,2-Dichloropropane	ND	53.3		ug/L	50.0	107%	10 - 198	9082268	NSH0714-05	08/12/09 20:29
cis-1,3-Dichloropropene	ND	50.8		ug/L	50.0	102%	56 - 156	9082268	NSH0714-05	08/12/09 20:29
trans-1,3-Dichloropropene	ND	48.5		ug/L	50.0	97%	47 - 157	9082268	NSH0714-05	08/12/09 20:29
1,1-Dichloropropene	ND	53.8		ug/L	50.0	108%	70 - 155	9082268	NSH0714-05	08/12/09 20:29
Ethylbenzene	0.630	57.9		ug/L	50.0	115%	68 - 157	9082268	NSH0714-05	08/12/09 20:29

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9082268-MS1										
Hexachlorobutadiene	ND	55.8		ug/L	50.0	112%	47 - 173	9082268	NSH0714-05	08/12/09 20:29
2-Hexanone	ND	285		ug/L	250	114%	57 - 154	9082268	NSH0714-05	08/12/09 20:29
Isopropylbenzene	ND	53.0		ug/L	50.0	106%	69 - 139	9082268	NSH0714-05	08/12/09 20:29
p-Isopropyltoluene	ND	58.6		ug/L	50.0	117%	69 - 151	9082268	NSH0714-05	08/12/09 20:29
Methyl tert-Butyl Ether	75.1	118		ug/L	50.0	86%	56 - 152	9082268	NSH0714-05	08/12/09 20:29
Methylene Chloride	ND	57.8		ug/L	50.0	116%	71 - 136	9082268	NSH0714-05	08/12/09 20:29
4-Methyl-2-pentanone	1.09	319		ug/L	250	127%	62 - 159	9082268	NSH0714-05	08/12/09 20:29
Naphthalene	ND	51.5		ug/L	50.0	103%	56 - 161	9082268	NSH0714-05	08/12/09 20:29
n-Propylbenzene	ND	54.3		ug/L	50.0	109%	61 - 167	9082268	NSH0714-05	08/12/09 20:29
Styrene	ND	55.0		ug/L	50.0	110%	69 - 150	9082268	NSH0714-05	08/12/09 20:29
1,1,1,2-Tetrachloroethane	ND	51.4		ug/L	50.0	103%	80 - 140	9082268	NSH0714-05	08/12/09 20:29
1,1,2,2-Tetrachloroethane	ND	53.0		ug/L	50.0	106%	76 - 141	9082268	NSH0714-05	08/12/09 20:29
Tetrachloroethene	ND	57.2		ug/L	50.0	114%	63 - 155	9082268	NSH0714-05	08/12/09 20:29
Toluene	3.25	57.9		ug/L	50.0	109%	61 - 153	9082268	NSH0714-05	08/12/09 20:29
1,2,3-Trichlorobenzene	ND	57.8		ug/L	50.0	116%	57 - 155	9082268	NSH0714-05	08/12/09 20:29
1,2,4-Trichlorobenzene	ND	50.0		ug/L	50.0	100%	64 - 147	9082268	NSH0714-05	08/12/09 20:29
1,1,2-Trichloroethane	ND	55.3		ug/L	50.0	111%	74 - 138	9082268	NSH0714-05	08/12/09 20:29
1,1,1-Trichloroethane	ND	51.3		ug/L	50.0	103%	78 - 153	9082268	NSH0714-05	08/12/09 20:29
Trichloroethene	ND	55.2		ug/L	50.0	110%	74 - 139	9082268	NSH0714-05	08/12/09 20:29
Trichlorofluoromethane	ND	47.5		ug/L	50.0	95%	53 - 149	9082268	NSH0714-05	08/12/09 20:29
1,2,3-Trichloropropane	ND	48.6		ug/L	50.0	97%	49 - 148	9082268	NSH0714-05	08/12/09 20:29
1,3,5-Trimethylbenzene	ND	50.5		ug/L	50.0	101%	67 - 151	9082268	NSH0714-05	08/12/09 20:29
1,2,4-Trimethylbenzene	ND	58.0		ug/L	50.0	116%	69 - 150	9082268	NSH0714-05	08/12/09 20:29
Vinyl chloride	ND	44.4		ug/L	50.0	89%	53 - 137	9082268	NSH0714-05	08/12/09 20:29
Xylenes, total	3.24	180		ug/L	150	118%	68 - 158	9082268	NSH0714-05	08/12/09 20:29
Surrogate: 1,2-Dichloroethane-d4		24.6		ug/L	25.0	99%	63 - 140	9082268	NSH0714-05	08/12/09 20:29
Surrogate: Dibromofluoromethane		25.6		ug/L	25.0	102%	73 - 131	9082268	NSH0714-05	08/12/09 20:29
Surrogate: Toluene-d8		26.2		ug/L	25.0	105%	80 - 120	9082268	NSH0714-05	08/12/09 20:29
Surrogate: 4-Bromofluorobenzene		23.2		ug/L	25.0	93%	79 - 125	9082268	NSH0714-05	08/12/09 20:29

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THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082153-MSD1												
Acetone	ND	284		ug/L	250	114%	56 - 150	7	31	9082153	NSH0614-02	08/12/09 20:02
Benzene	ND	53.0		ug/L	50.0	106%	65 - 151	1	12	9082153	NSH0614-02	08/12/09 20:02
Bromobenzene	ND	50.0		ug/L	50.0	100%	69 - 142	5	23	9082153	NSH0614-02	08/12/09 20:02
Bromochloromethane	ND	56.0		ug/L	50.0	112%	64 - 154	2	32	9082153	NSH0614-02	08/12/09 20:02
Bromodichloromethane	ND	55.9		ug/L	50.0	112%	75 - 138	3	13	9082153	NSH0614-02	08/12/09 20:02
Bromoform	ND	51.3		ug/L	50.0	103%	55 - 153	0.7	18	9082153	NSH0614-02	08/12/09 20:02
Bromomethane	ND	62.5		ug/L	50.0	125%	13 - 176	5	50	9082153	NSH0614-02	08/12/09 20:02
2-Butanone	ND	274		ug/L	250	109%	45 - 164	1	37	9082153	NSH0614-02	08/12/09 20:02
sec-Butylbenzene	ND	55.4		ug/L	50.0	111%	68 - 159	5	21	9082153	NSH0614-02	08/12/09 20:02
n-Butylbenzene	ND	58.3		ug/L	50.0	117%	67 - 151	5	11	9082153	NSH0614-02	08/12/09 20:02
tert-Butylbenzene	ND	50.8		ug/L	50.0	102%	73 - 153	4	20	9082153	NSH0614-02	08/12/09 20:02
Carbon disulfide	ND	58.0		ug/L	50.0	116%	33 - 187	5	28	9082153	NSH0614-02	08/12/09 20:02
Carbon Tetrachloride	ND	49.4		ug/L	50.0	99%	64 - 157	5	26	9082153	NSH0614-02	08/12/09 20:02
Chlorobenzene	ND	54.3		ug/L	50.0	109%	78 - 136	0.6	11	9082153	NSH0614-02	08/12/09 20:02
Chlorodibromomethane	ND	53.9		ug/L	50.0	108%	64 - 145	0.6	16	9082153	NSH0614-02	08/12/09 20:02
Chloroethane	ND	56.6		ug/L	50.0	113%	48 - 159	4	35	9082153	NSH0614-02	08/12/09 20:02
Chloroform	ND	49.8		ug/L	50.0	100%	72 - 145	1	32	9082153	NSH0614-02	08/12/09 20:02
Chloromethane	ND	42.2		ug/L	50.0	84%	10 - 194	7	34	9082153	NSH0614-02	08/12/09 20:02
2-Chlorotoluene	ND	52.4		ug/L	50.0	105%	66 - 155	3	22	9082153	NSH0614-02	08/12/09 20:02
4-Chlorotoluene	ND	53.4		ug/L	50.0	107%	69 - 149	3	22	9082153	NSH0614-02	08/12/09 20:02
1,2-Dibromo-3-chloropropane	ND	48.2		ug/L	50.0	96%	49 - 162	5	21	9082153	NSH0614-02	08/12/09 20:02
1,2-Dibromoethane (EDB)	ND	60.5		ug/L	50.0	121%	70 - 152	1	10	9082153	NSH0614-02	08/12/09 20:02
Dibromomethane	ND	54.6		ug/L	50.0	109%	75 - 141	3	11	9082153	NSH0614-02	08/12/09 20:02
1,4-Dichlorobenzene	ND	52.0		ug/L	50.0	104%	75 - 135	4	10	9082153	NSH0614-02	08/12/09 20:02
1,3-Dichlorobenzene	ND	53.7		ug/L	50.0	107%	72 - 146	4	18	9082153	NSH0614-02	08/12/09 20:02
1,2-Dichlorobenzene	ND	57.1		ug/L	50.0	114%	80 - 136	3	11	9082153	NSH0614-02	08/12/09 20:02
Dichlorodifluoromethane	ND	39.8		ug/L	50.0	80%	23 - 159	9	32	9082153	NSH0614-02	08/12/09 20:02
1,1-Dichloroethane	0.280	52.9		ug/L	50.0	105%	64 - 154	2	34	9082153	NSH0614-02	08/12/09 20:02
1,2-Dichloroethane	ND	51.1		ug/L	50.0	102%	72 - 137	0.3	25	9082153	NSH0614-02	08/12/09 20:02
cis-1,2-Dichloroethene	ND	52.8		ug/L	50.0	106%	57 - 154	2	32	9082153	NSH0614-02	08/12/09 20:02
1,1-Dichloroethene	ND	59.3		ug/L	50.0	119%	34 - 151	4	31	9082153	NSH0614-02	08/12/09 20:02
trans-1,2-Dichloroethene	ND	53.1		ug/L	50.0	106%	57 - 157	2	32	9082153	NSH0614-02	08/12/09 20:02
1,3-Dichloropropane	ND	57.3		ug/L	50.0	115%	71 - 137	0.3	20	9082153	NSH0614-02	08/12/09 20:02
1,2-Dichloropropane	ND	50.0		ug/L	50.0	100%	71 - 139	2	11	9082153	NSH0614-02	08/12/09 20:02
2,2-Dichloropropane	ND	54.5		ug/L	50.0	109%	10 - 198	4	11	9082153	NSH0614-02	08/12/09 20:02
cis-1,3-Dichloropropene	ND	52.9		ug/L	50.0	106%	56 - 156	4	35	9082153	NSH0614-02	08/12/09 20:02
trans-1,3-Dichloropropene	ND	50.9		ug/L	50.0	102%	47 - 157	3	26	9082153	NSH0614-02	08/12/09 20:02
1,1-Dichloropropene	ND	55.5		ug/L	50.0	111%	70 - 155	5	18	9082153	NSH0614-02	08/12/09 20:02
Ethylbenzene	ND	59.8		ug/L	50.0	120%	68 - 157	0.8	12	9082153	NSH0614-02	08/12/09 20:02
Hexachlorobutadiene	ND	58.2		ug/L	50.0	116%	47 - 173	6	21	9082153	NSH0614-02	08/12/09 20:02

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082153-MSD1												
2-Hexanone	ND	294		ug/L	250	118%	57 - 154	0.3	20	9082153	NSH0614-02	08/12/09 20:02
Isopropylbenzene	ND	55.5		ug/L	50.0	111%	69 - 139	1	15	9082153	NSH0614-02	08/12/09 20:02
p-Isopropyltoluene	ND	60.0		ug/L	50.0	120%	69 - 151	5	18	9082153	NSH0614-02	08/12/09 20:02
Methyl tert-Butyl Ether	ND	48.7		ug/L	50.0	97%	56 - 152	5	32	9082153	NSH0614-02	08/12/09 20:02
Methylene Chloride	ND	58.4		ug/L	50.0	117%	71 - 136	3	36	9082153	NSH0614-02	08/12/09 20:02
4-Methyl-2-pentanone	3.08	343		ug/L	250	136%	62 - 159	0.9	35	9082153	NSH0614-02	08/12/09 20:02
Naphthalene	ND	52.5		ug/L	50.0	105%	56 - 161	4	30	9082153	NSH0614-02	08/12/09 20:02
n-Propylbenzene	ND	55.5		ug/L	50.0	111%	61 - 167	4	23	9082153	NSH0614-02	08/12/09 20:02
Styrene	ND	58.5		ug/L	50.0	117%	69 - 150	0.3	29	9082153	NSH0614-02	08/12/09 20:02
1,1,1,2-Tetrachloroethane	ND	53.9		ug/L	50.0	108%	80 - 140	1	11	9082153	NSH0614-02	08/12/09 20:02
1,1,2,2-Tetrachloroethane	ND	53.9		ug/L	50.0	108%	76 - 141	2	28	9082153	NSH0614-02	08/12/09 20:02
Tetrachloroethene	ND	59.6		ug/L	50.0	119%	63 - 155	3	16	9082153	NSH0614-02	08/12/09 20:02
Toluene	0.410	58.0		ug/L	50.0	115%	61 - 153	1	35	9082153	NSH0614-02	08/12/09 20:02
1,2,3-Trichlorobenzene	ND	59.7		ug/L	50.0	119%	57 - 155	6	28	9082153	NSH0614-02	08/12/09 20:02
1,2,4-Trichlorobenzene	ND	51.7		ug/L	50.0	103%	64 - 147	5	23	9082153	NSH0614-02	08/12/09 20:02
1,1,2-Trichloroethane	ND	58.1		ug/L	50.0	116%	74 - 138	0.02	21	9082153	NSH0614-02	08/12/09 20:02
1,1,1-Trichloroethane	ND	53.3		ug/L	50.0	107%	78 - 153	4	29	9082153	NSH0614-02	08/12/09 20:02
Trichloroethene	ND	56.8		ug/L	50.0	114%	74 - 139	4	11	9082153	NSH0614-02	08/12/09 20:02
Trichlorofluoromethane	ND	48.6		ug/L	50.0	97%	53 - 149	5	33	9082153	NSH0614-02	08/12/09 20:02
1,2,3-Trichloropropane	ND	49.2		ug/L	50.0	98%	49 - 148	2	25	9082153	NSH0614-02	08/12/09 20:02
1,3,5-Trimethylbenzene	ND	51.2		ug/L	50.0	102%	67 - 151	4	21	9082153	NSH0614-02	08/12/09 20:02
1,2,4-Trimethylbenzene	ND	58.8		ug/L	50.0	118%	69 - 150	4	20	9082153	NSH0614-02	08/12/09 20:02
Vinyl chloride	ND	47.3		ug/L	50.0	95%	53 - 137	4	32	9082153	NSH0614-02	08/12/09 20:02
Xylenes, total	ND	183		ug/L	150	122%	68 - 158	0.4	18	9082153	NSH0614-02	08/12/09 20:02
Surrogate: 1,2-Dichloroethane-d4		24.9		ug/L	25.0	100%	63 - 140			9082153	NSH0614-02	08/12/09 20:02
Surrogate: Dibromofluoromethane		26.4		ug/L	25.0	106%	73 - 131			9082153	NSH0614-02	08/12/09 20:02
Surrogate: Toluene-d8		26.8		ug/L	25.0	107%	80 - 120			9082153	NSH0614-02	08/12/09 20:02
Surrogate: 4-Bromofluorobenzene		23.0		ug/L	25.0	92%	79 - 125			9082153	NSH0614-02	08/12/09 20:02
9082268-MSD1												
Acetone	12.7	278		ug/L	250	106%	56 - 150	4	31	9082268	NSH0714-05	08/12/09 20:57
Benzene	0.730	53.0		ug/L	50.0	105%	65 - 151	1	12	9082268	NSH0714-05	08/12/09 20:57
Bromobenzene	ND	49.9		ug/L	50.0	100%	69 - 142	1	23	9082268	NSH0714-05	08/12/09 20:57
Bromochloromethane	ND	55.5		ug/L	50.0	111%	64 - 154	2	32	9082268	NSH0714-05	08/12/09 20:57
Bromodichloromethane	ND	54.7		ug/L	50.0	109%	75 - 138	0.7	13	9082268	NSH0714-05	08/12/09 20:57
Bromoform	ND	50.6		ug/L	50.0	101%	55 - 153	3	18	9082268	NSH0714-05	08/12/09 20:57
Bromomethane	ND	61.3		ug/L	50.0	123%	13 - 176	2	50	9082268	NSH0714-05	08/12/09 20:57
2-Butanone	9.47	291		ug/L	250	113%	45 - 164	2	37	9082268	NSH0714-05	08/12/09 20:57
sec-Butylbenzene	ND	54.2		ug/L	50.0	108%	68 - 159	0.8	21	9082268	NSH0714-05	08/12/09 20:57
n-Butylbenzene	ND	56.9		ug/L	50.0	114%	67 - 151	0.4	11	9082268	NSH0714-05	08/12/09 20:57

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082268-MSD1												
tert-Butylbenzene	ND	50.3		ug/L	50.0	101%	73 - 153	0.7	20	9082268	NSH0714-05	08/12/09 20:57
Carbon disulfide	ND	58.3		ug/L	50.0	117%	33 - 187	5	28	9082268	NSH0714-05	08/12/09 20:57
Carbon Tetrachloride	ND	47.5		ug/L	50.0	95%	64 - 157	0.3	26	9082268	NSH0714-05	08/12/09 20:57
Chlorobenzene	ND	52.5		ug/L	50.0	105%	78 - 136	0.6	11	9082268	NSH0714-05	08/12/09 20:57
Chlorodibromomethane	ND	52.7		ug/L	50.0	105%	64 - 145	2	16	9082268	NSH0714-05	08/12/09 20:57
Chloroethane	ND	55.3		ug/L	50.0	111%	48 - 159	0.9	35	9082268	NSH0714-05	08/12/09 20:57
Chloroform	0.890	50.0		ug/L	50.0	98%	72 - 145	2	32	9082268	NSH0714-05	08/12/09 20:57
Chloromethane	ND	41.3		ug/L	50.0	83%	10 - 194	0.1	34	9082268	NSH0714-05	08/12/09 20:57
2-Chlorotoluene	ND	52.2		ug/L	50.0	104%	66 - 155	1	22	9082268	NSH0714-05	08/12/09 20:57
4-Chlorotoluene	ND	53.0		ug/L	50.0	106%	69 - 149	0.9	22	9082268	NSH0714-05	08/12/09 20:57
1,2-Dibromo-3-chloropropane	ND	49.6		ug/L	50.0	99%	49 - 162	0.3	21	9082268	NSH0714-05	08/12/09 20:57
1,2-Dibromoethane (EDB)	ND	57.8		ug/L	50.0	116%	70 - 152	0.4	10	9082268	NSH0714-05	08/12/09 20:57
Dibromomethane	ND	53.7		ug/L	50.0	107%	75 - 141	1	11	9082268	NSH0714-05	08/12/09 20:57
1,4-Dichlorobenzene	ND	51.3		ug/L	50.0	103%	75 - 135	0.5	10	9082268	NSH0714-05	08/12/09 20:57
1,3-Dichlorobenzene	ND	53.4		ug/L	50.0	107%	72 - 146	0.9	18	9082268	NSH0714-05	08/12/09 20:57
1,2-Dichlorobenzene	ND	56.9		ug/L	50.0	114%	80 - 136	2	11	9082268	NSH0714-05	08/12/09 20:57
Dichlorodifluoromethane	ND	38.2		ug/L	50.0	76%	23 - 159	0.2	32	9082268	NSH0714-05	08/12/09 20:57
1,1-Dichloroethane	ND	52.6		ug/L	50.0	105%	64 - 154	1	34	9082268	NSH0714-05	08/12/09 20:57
1,2-Dichloroethane	ND	49.6		ug/L	50.0	99%	72 - 137	0.1	25	9082268	NSH0714-05	08/12/09 20:57
cis-1,2-Dichloroethene	ND	53.0		ug/L	50.0	106%	57 - 154	3	32	9082268	NSH0714-05	08/12/09 20:57
1,1-Dichloroethene	ND	60.0		ug/L	50.0	120%	34 - 151	4	31	9082268	NSH0714-05	08/12/09 20:57
trans-1,2-Dichloroethene	ND	52.0		ug/L	50.0	104%	57 - 157	2	32	9082268	NSH0714-05	08/12/09 20:57
1,3-Dichloropropane	ND	54.8		ug/L	50.0	110%	71 - 137	0.4	20	9082268	NSH0714-05	08/12/09 20:57
1,2-Dichloropropane	ND	49.3		ug/L	50.0	99%	71 - 139	1	11	9082268	NSH0714-05	08/12/09 20:57
2,2-Dichloropropane	ND	54.7		ug/L	50.0	109%	10 - 198	3	11	9082268	NSH0714-05	08/12/09 20:57
cis-1,3-Dichloropropene	ND	51.4		ug/L	50.0	103%	56 - 156	1	35	9082268	NSH0714-05	08/12/09 20:57
trans-1,3-Dichloropropene	ND	49.3		ug/L	50.0	99%	47 - 157	2	26	9082268	NSH0714-05	08/12/09 20:57
1,1-Dichloropropene	ND	53.3		ug/L	50.0	107%	70 - 155	1	18	9082268	NSH0714-05	08/12/09 20:57
Ethylbenzene	0.630	58.3		ug/L	50.0	115%	68 - 157	0.6	12	9082268	NSH0714-05	08/12/09 20:57
Hexachlorobutadiene	ND	56.3		ug/L	50.0	113%	47 - 173	0.9	21	9082268	NSH0714-05	08/12/09 20:57
2-Hexanone	ND	286		ug/L	250	114%	57 - 154	0.3	20	9082268	NSH0714-05	08/12/09 20:57
Isopropylbenzene	ND	53.7		ug/L	50.0	107%	69 - 139	1	15	9082268	NSH0714-05	08/12/09 20:57
p-Isopropyltoluene	ND	59.1		ug/L	50.0	118%	69 - 151	0.8	18	9082268	NSH0714-05	08/12/09 20:57
Methyl tert-Butyl Ether	75.1	120		ug/L	50.0	90%	56 - 152	2	32	9082268	NSH0714-05	08/12/09 20:57
Methylene Chloride	ND	59.0		ug/L	50.0	118%	71 - 136	2	36	9082268	NSH0714-05	08/12/09 20:57
4-Methyl-2-pentanone	1.09	317		ug/L	250	127%	62 - 159	0.6	35	9082268	NSH0714-05	08/12/09 20:57
Naphthalene	ND	51.2		ug/L	50.0	102%	56 - 161	0.6	30	9082268	NSH0714-05	08/12/09 20:57
n-Propylbenzene	ND	55.1		ug/L	50.0	110%	61 - 167	1	23	9082268	NSH0714-05	08/12/09 20:57
Styrene	ND	55.6		ug/L	50.0	111%	69 - 150	1	29	9082268	NSH0714-05	08/12/09 20:57
1,1,1,2-Tetrachloroethane	ND	52.0		ug/L	50.0	104%	80 - 140	1	11	9082268	NSH0714-05	08/12/09 20:57

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSH0589
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9082268-MSD1												
1,1,2,2-Tetrachloroethane	ND	53.5		ug/L	50.0	107%	76 - 141	0.9	28	9082268	NSH0714-05	08/12/09 20:57
Tetrachloroethene	ND	57.9		ug/L	50.0	116%	63 - 155	1	16	9082268	NSH0714-05	08/12/09 20:57
Toluene	3.25	58.5		ug/L	50.0	111%	61 - 153	1	35	9082268	NSH0714-05	08/12/09 20:57
1,2,3-Trichlorobenzene	ND	58.0		ug/L	50.0	116%	57 - 155	0.3	28	9082268	NSH0714-05	08/12/09 20:57
1,2,4-Trichlorobenzene	ND	50.6		ug/L	50.0	101%	64 - 147	1	23	9082268	NSH0714-05	08/12/09 20:57
1,1,2-Trichloroethane	ND	55.3		ug/L	50.0	111%	74 - 138	0.09	21	9082268	NSH0714-05	08/12/09 20:57
1,1,1-Trichloroethane	ND	51.7		ug/L	50.0	103%	78 - 153	0.7	29	9082268	NSH0714-05	08/12/09 20:57
Trichloroethene	ND	55.7		ug/L	50.0	111%	74 - 139	0.9	11	9082268	NSH0714-05	08/12/09 20:57
Trichlorofluoromethane	ND	47.6		ug/L	50.0	95%	53 - 149	0.3	33	9082268	NSH0714-05	08/12/09 20:57
1,2,3-Trichloropropane	ND	48.8		ug/L	50.0	98%	49 - 148	0.5	25	9082268	NSH0714-05	08/12/09 20:57
1,3,5-Trimethylbenzene	ND	51.2		ug/L	50.0	102%	67 - 151	2	21	9082268	NSH0714-05	08/12/09 20:57
1,2,4-Trimethylbenzene	ND	58.5		ug/L	50.0	117%	69 - 150	0.8	20	9082268	NSH0714-05	08/12/09 20:57
Vinyl chloride	ND	45.1		ug/L	50.0	90%	53 - 137	2	32	9082268	NSH0714-05	08/12/09 20:57
Xylenes, total	3.24	182		ug/L	150	119%	68 - 158	1	18	9082268	NSH0714-05	08/12/09 20:57
Surrogate: 1,2-Dichloroethane-d4		24.4		ug/L	25.0	98%	63 - 140			9082268	NSH0714-05	08/12/09 20:57
Surrogate: Dibromofluoromethane		26.1		ug/L	25.0	104%	73 - 131			9082268	NSH0714-05	08/12/09 20:57
Surrogate: Toluene-d8		26.2		ug/L	25.0	105%	80 - 120			9082268	NSH0714-05	08/12/09 20:57
Surrogate: 4-Bromofluorobenzene		23.4		ug/L	25.0	94%	79 - 125			9082268	NSH0714-05	08/12/09 20:57

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Tennessee
SW846 8260B	Water	N/A	X	N/A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSH0589
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	08/07/09 12:53

DATA QUALIFIERS AND DEFINITIONS

MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RI

NSH0589

Cooler Received/Opened On: 8/7/2009 @ 1253

1. Tracking #_____(last 4 digits, FedEx)

Courier: Walk-in IR Gun ID: 95610068

2. Temperature of rep. sample or temp blank when opened: 15.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

Client: TriAD Env. Consultants (6921)
Address: 207 Donelson Pike, Suite 200
City, State, Zip: Nashville TN 37214
Client Invoice Contact: Kim Browers
Client Project Mgr: Chris Scott
Client Telephone#: (615) 889-6888 Fax: (615) 889-4004
Sampler Name (Print): Mike Baker
SamplerSignature: [signature]

TA Account #: 488472 PO #:
Invoice to: TriAD Env. Consultants (6921)
Report to: Chris Scott
Project Name: Elmco
Facility ID: 07-Elm01-01
Site Address:
City,State,Zip: Tennessee
Regulatory District (CA):

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B Volatile Organics														RUSH TAT (Pre Schedule) *
EV-6	8/7/09	1150	3	X					X						X						X						21								
Trip Blank	—	—	1	—					X						—						X						2								

NSH0589
08/21/09 23:59

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

NOTES/SPECIAL INSTRUCTIONS: BO # 15865

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
[signature]	8/7/09							

Shipped Via:
Shipped Via:

Received for TestAmerica by: [signature] Date: 8/7/09 Time: 1253
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

QC Deliverables (Please Circle One) :
Level 2 Level 3 Level 4 Site Specific
(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)

Date Due of Report:

September 2009 Laboratory Report (Excerpt)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSI0272
	207 Donelson Pike, Suite 200	Project Name:	Triad 8260
	Nashville, TN 37214	Project Number:	none
Attn	Jason Unkefer	Received:	09/03/09 13:21

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSI0272-10 (EV-6 - Ground Water) Sampled: 09/03/09 11:34								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**11400**		ug/L	5000	100	09/08/09 20:27	SW846 8260B	9091006
Benzene	**24.4**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Bromobenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Bromochloromethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Bromodichloromethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Bromoform	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Bromomethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
2-Butanone	**493**		ug/L	50.0	1	09/05/09 06:16	SW846 8260B	9090642
sec-Butylbenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
n-Butylbenzene	**1.51**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
tert-Butylbenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Carbon disulfide	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Carbon Tetrachloride	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Chlorobenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Chlorodibromomethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Chloroethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Chloroform	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Chloromethane	**3.28**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
2-Chlorotoluene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
4-Chlorotoluene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Dibromomethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,4-Dichlorobenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,3-Dichlorobenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2-Dichlorobenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Dichlorodifluoromethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,1-Dichloroethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2-Dichloroethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,1-Dichloroethene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,3-Dichloropropane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2-Dichloropropane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
2,2-Dichloropropane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,1-Dichloropropene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Ethylbenzene	**91.1**	CF7	ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Hexachlorobutadiene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
2-Hexanone	ND		ug/L	50.0	1	09/05/09 06:16	SW846 8260B	9090642
Isopropylbenzene	**3.48**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
p-Isopropyltoluene	**1.26**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSI0272
	207 Donelson Pike, Suite 200	Project Name:	Triad 8260
	Nashville, TN 37214	Project Number:	none
Attn	Jason Unkefer	Received:	09/03/09 13:21

ANALYTICAL REPORT

Sample ID: NSI0272-10 (EV-6 - Ground Water) - cont. Sampled: 09/03/09 11:34

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Methylene Chloride	ND		ug/L	5.00	1	09/05/09 06:16	SW846 8260B	9090642
4-Methyl-2-pentanone	**634**		ug/L	10.0	1	09/05/09 06:16	SW846 8260B	9090642
Naphthalene	ND		ug/L	5.00	1	09/05/09 06:16	SW846 8260B	9090642
n-Propylbenzene	**2.09**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Styrene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Tetrachloroethene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Toluene	**24300**		ug/L	500	500	09/10/09 19:05	SW846 8260B	9091034
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,1,2-Trichloroethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,1,1-Trichloroethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Trichloroethene	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Trichlorofluoromethane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2,3-Trichloropropane	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,3,5-Trimethylbenzene	**1.29**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
1,2,4-Trimethylbenzene	**7.67**		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Vinyl chloride	ND		ug/L	1.00	1	09/05/09 06:16	SW846 8260B	9090642
Xylenes, total	**622**		ug/L	300	100	09/08/09 20:27	SW846 8260B	9091006
Surr: 1,2-Dichloroethane-d4 (63-140%)	*100 %*					*09/05/09 06:16*	*SW846 8260B*	*9090642*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*96 %*					*09/08/09 20:27*	*SW846 8260B*	*9091006*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*102 %*					*09/10/09 19:05*	*SW846 8260B*	*9091034*
Surr: Dibromofluoromethane (73-131%)	*104 %*					*09/05/09 06:16*	*SW846 8260B*	*9090642*
Surr: Dibromofluoromethane (73-131%)	*103 %*					*09/08/09 20:27*	*SW846 8260B*	*9091006*
Surr: Dibromofluoromethane (73-131%)	*102 %*					*09/10/09 19:05*	*SW846 8260B*	*9091034*
Surr: Toluene-d8 (80-120%)	*65 %*	*ZX*				*09/05/09 06:16*	*SW846 8260B*	*9090642*
Surr: Toluene-d8 (80-120%)	*99 %*					*09/08/09 20:27*	*SW846 8260B*	*9091006*
Surr: Toluene-d8 (80-120%)	*100 %*					*09/10/09 19:05*	*SW846 8260B*	*9091034*
Surr: 4-Bromofluorobenzene (79-125%)	*102 %*					*09/05/09 06:16*	*SW846 8260B*	*9090642*
Surr: 4-Bromofluorobenzene (79-125%)	*104 %*					*09/08/09 20:27*	*SW846 8260B*	*9091006*
Surr: 4-Bromofluorobenzene (79-125%)	*102 %*					*09/10/09 19:05*	*SW846 8260B*	*9091034*

October 2009 Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

October 30, 2009 5:09:12PM

Client: TriAD Env. Consultants (6921)
207 Donelson Pike, Suite 200
Nashville, TN 37214
Attn: Chris Scott

Work Order: NSJ2083
Project Name: Elmco
Project Nbr: 07-Elm01-01
P/O Nbr:
Date Received: 10/22/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
EV-6	NSJ2083-01	10/22/09 11:05

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Tennessee Certification Number: 02008

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Andy Johnson

Operations Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

ANALYTICAL REPORT

Sample ID: NSJ2083-01 (EV-6 - Water) Sampled: 10/22/09 11:05

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND		ug/L	50.0	1	10/23/09 12:26	SW846 8260B	9104017
Benzene	**9.64**		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Bromobenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Bromochloromethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Bromodichloromethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Bromoform	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Bromomethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
2-Butanone	ND		ug/L	50.0	1	10/23/09 12:26	SW846 8260B	9104017
sec-Butylbenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
n-Butylbenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
tert-Butylbenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Carbon disulfide	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Carbon Tetrachloride	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Chlorobenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Chlorodibromomethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Chloroethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Chloroform	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Chloromethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
2-Chlorotoluene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
4-Chlorotoluene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Dibromomethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,4-Dichlorobenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,3-Dichlorobenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2-Dichlorobenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Dichlorodifluoromethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,1-Dichloroethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2-Dichloroethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,1-Dichloroethene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,3-Dichloropropane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2-Dichloropropane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
2,2-Dichloropropane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,1-Dichloropropene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Ethylbenzene	ND	RL1	ug/L	2000	2000	10/25/09 00:05	SW846 8260B	9104619
Hexachlorobutadiene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
2-Hexanone	ND		ug/L	50.0	1	10/23/09 12:26	SW846 8260B	9104017
Isopropylbenzene	**4.82**		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
p-Isopropyltoluene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017

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Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

ANALYTICAL REPORT

Sample ID: NSJ2083-01 (EV-6 - Water) - cont. Sampled: 10/22/09 11:05

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Methylene Chloride	ND		ug/L	5.00	1	10/23/09 12:26	SW846 8260B	9104017
4-Methyl-2-pentanone	**308**		ug/L	10.0	1	10/23/09 12:26	SW846 8260B	9104017
Naphthalene	ND		ug/L	5.00	1	10/23/09 12:26	SW846 8260B	9104017
n-Propylbenzene	**2.43**		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Styrene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Tetrachloroethene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Toluene	**113000**		ug/L	2000	2000	10/25/09 00:05	SW846 8260B	9104619
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,1,2-Trichloroethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,1,1-Trichloroethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Trichloroethene	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Trichlorofluoromethane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2,3-Trichloropropane	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,3,5-Trimethylbenzene	**2.68**		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
1,2,4-Trimethylbenzene	**9.30**		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Vinyl chloride	ND		ug/L	1.00	1	10/23/09 12:26	SW846 8260B	9104017
Xylenes, total	ND	RL1	ug/L	6000	2000	10/25/09 00:05	SW846 8260B	9104619
Surr: 1,2-Dichloroethane-d4 (63-140%)	*124 %*					*10/23/09 12:26*	*SW846 8260B*	*9104017*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*109 %*					*10/25/09 00:05*	*SW846 8260B*	*9104619*
Surr: Dibromofluoromethane (73-131%)	*126 %*					*10/23/09 12:26*	*SW846 8260B*	*9104017*
Surr: Dibromofluoromethane (73-131%)	*111 %*					*10/25/09 00:05*	*SW846 8260B*	*9104619*
Surr: Toluene-d8 (80-120%)	*11 %*	*ZX*				*10/23/09 12:26*	*SW846 8260B*	*9104017*
Surr: Toluene-d8 (80-120%)	*100 %*					*10/25/09 00:05*	*SW846 8260B*	*9104619*
Surr: 4-Bromofluorobenzene (79-125%)	*86 %*					*10/23/09 12:26*	*SW846 8260B*	*9104017*
Surr: 4-Bromofluorobenzene (79-125%)	*87 %*					*10/25/09 00:05*	*SW846 8260B*	*9104619*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9104017-BLK1						
Acetone	<25.0		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Benzene	<0.410		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Bromobenzene	<0.360		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Bromochloromethane	<0.470		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Bromodichloromethane	<0.270		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Bromoform	<0.430		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Bromomethane	<0.300		ug/L	9104017	9104017-BLK1	10/23/09 10:21
2-Butanone	<2.10		ug/L	9104017	9104017-BLK1	10/23/09 10:21
sec-Butylbenzene	<0.360		ug/L	9104017	9104017-BLK1	10/23/09 10:21
n-Butylbenzene	<0.310		ug/L	9104017	9104017-BLK1	10/23/09 10:21
tert-Butylbenzene	<0.380		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Carbon disulfide	<0.360		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Carbon Tetrachloride	<0.330		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Chlorobenzene	<0.220		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Chlorodibromomethane	<0.260		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Chloroethane	<0.460		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Chloroform	<0.250		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Chloromethane	<0.390		ug/L	9104017	9104017-BLK1	10/23/09 10:21
2-Chlorotoluene	<0.510		ug/L	9104017	9104017-BLK1	10/23/09 10:21
4-Chlorotoluene	<0.510		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2-Dibromoethane (EDB)	<0.460		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Dibromomethane	<0.410		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,4-Dichlorobenzene	<0.430		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,3-Dichlorobenzene	<0.320		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2-Dichlorobenzene	<0.400		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Dichlorodifluoromethane	<0.190		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,1-Dichloroethane	<0.340		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2-Dichloroethane	<0.350		ug/L	9104017	9104017-BLK1	10/23/09 10:21
cis-1,2-Dichloroethene	<0.330		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,1-Dichloroethene	<0.220		ug/L	9104017	9104017-BLK1	10/23/09 10:21
trans-1,2-Dichloroethene	<0.330		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,3-Dichloropropane	<0.270		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2-Dichloropropane	<0.240		ug/L	9104017	9104017-BLK1	10/23/09 10:21
2,2-Dichloropropane	<0.300		ug/L	9104017	9104017-BLK1	10/23/09 10:21
cis-1,3-Dichloropropene	<0.330		ug/L	9104017	9104017-BLK1	10/23/09 10:21
trans-1,3-Dichloropropene	<0.330		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,1-Dichloropropene	<0.260		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Ethylbenzene	<0.350		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Hexachlorobutadiene	<0.790		ug/L	9104017	9104017-BLK1	10/23/09 10:21
2-Hexanone	<1.40		ug/L	9104017	9104017-BLK1	10/23/09 10:21

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Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9104017-BLK1						
Isopropylbenzene	<0.400		ug/L	9104017	9104017-BLK1	10/23/09 10:21
p-Isopropyltoluene	<0.330		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Methyl tert-Butyl Ether	<0.320		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Methylene Chloride	0.930		ug/L	9104017	9104017-BLK1	10/23/09 10:21
4-Methyl-2-pentanone	<1.40		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Naphthalene	<0.380		ug/L	9104017	9104017-BLK1	10/23/09 10:21
n-Propylbenzene	<0.390		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Styrene	<0.260		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,1,1,2-Tetrachloroethane	<0.200		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,1,2,2-Tetrachloroethane	<0.360		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Tetrachloroethene	<0.320		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Toluene	<0.350		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2,3-Trichlorobenzene	0.420		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2,4-Trichlorobenzene	<0.360		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,1,2-Trichloroethane	<0.320		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,1,1-Trichloroethane	<0.190		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Trichloroethene	<0.260		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Trichlorofluoromethane	<0.220		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2,3-Trichloropropane	<0.470		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,3,5-Trimethylbenzene	<0.360		ug/L	9104017	9104017-BLK1	10/23/09 10:21
1,2,4-Trimethylbenzene	<0.320		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Vinyl chloride	<0.220		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Xylenes, total	<0.730		ug/L	9104017	9104017-BLK1	10/23/09 10:21
Surrogate: 1,2-Dichloroethane-d4	112%			9104017	9104017-BLK1	10/23/09 10:21
Surrogate: Dibromofluoromethane	110%			9104017	9104017-BLK1	10/23/09 10:21
Surrogate: Toluene-d8	99%			9104017	9104017-BLK1	10/23/09 10:21
Surrogate: 4-Bromofluorobenzene	89%			9104017	9104017-BLK1	10/23/09 10:21
9104619-BLK1						
Acetone	<25.0		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Benzene	<0.410		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Bromobenzene	<0.360		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Bromochloromethane	<0.470		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Bromodichloromethane	<0.270		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Bromoform	<0.430		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Bromomethane	<0.300		ug/L	9104619	9104619-BLK1	10/24/09 19:29
2-Butanone	<2.10		ug/L	9104619	9104619-BLK1	10/24/09 19:29
sec-Butylbenzene	<0.360		ug/L	9104619	9104619-BLK1	10/24/09 19:29
n-Butylbenzene	<0.310		ug/L	9104619	9104619-BLK1	10/24/09 19:29
tert-Butylbenzene	<0.380		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Carbon disulfide	<0.360		ug/L	9104619	9104619-BLK1	10/24/09 19:29

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Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9104619-BLK1						
Carbon Tetrachloride	<0.330		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Chlorobenzene	<0.220		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Chlorodibromomethane	<0.260		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Chloroethane	<0.460		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Chloroform	<0.250		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Chloromethane	<0.390		ug/L	9104619	9104619-BLK1	10/24/09 19:29
2-Chlorotoluene	<0.510		ug/L	9104619	9104619-BLK1	10/24/09 19:29
4-Chlorotoluene	<0.510		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2-Dibromoethane (EDB)	<0.460		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Dibromomethane	<0.410		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,4-Dichlorobenzene	<0.430		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,3-Dichlorobenzene	<0.320		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2-Dichlorobenzene	<0.400		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Dichlorodifluoromethane	<0.190		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,1-Dichloroethane	<0.340		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2-Dichloroethane	<0.350		ug/L	9104619	9104619-BLK1	10/24/09 19:29
cis-1,2-Dichloroethene	<0.330		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,1-Dichloroethene	<0.220		ug/L	9104619	9104619-BLK1	10/24/09 19:29
trans-1,2-Dichloroethene	<0.330		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,3-Dichloropropane	<0.270		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2-Dichloropropane	<0.240		ug/L	9104619	9104619-BLK1	10/24/09 19:29
2,2-Dichloropropane	<0.300		ug/L	9104619	9104619-BLK1	10/24/09 19:29
cis-1,3-Dichloropropene	<0.330		ug/L	9104619	9104619-BLK1	10/24/09 19:29
trans-1,3-Dichloropropene	<0.330		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,1-Dichloropropene	<0.260		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Ethylbenzene	<0.350		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Hexachlorobutadiene	<0.790		ug/L	9104619	9104619-BLK1	10/24/09 19:29
2-Hexanone	<1.40		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Isopropylbenzene	<0.400		ug/L	9104619	9104619-BLK1	10/24/09 19:29
p-Isopropyltoluene	<0.330		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Methyl tert-Butyl Ether	<0.320		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Methylene Chloride	0.960		ug/L	9104619	9104619-BLK1	10/24/09 19:29
4-Methyl-2-pentanone	<1.40		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Naphthalene	<0.380		ug/L	9104619	9104619-BLK1	10/24/09 19:29
n-Propylbenzene	<0.390		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Styrene	<0.260		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,1,1,2-Tetrachloroethane	<0.200		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,1,2,2-Tetrachloroethane	<0.360		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Tetrachloroethene	<0.320		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Toluene	<0.350		ug/L	9104619	9104619-BLK1	10/24/09 19:29

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9104619-BLK1						
1,2,3-Trichlorobenzene	0.400		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2,4-Trichlorobenzene	<0.360		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,1,2-Trichloroethane	<0.320		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,1,1-Trichloroethane	<0.190		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Trichloroethene	<0.260		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Trichlorofluoromethane	<0.220		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2,3-Trichloropropane	<0.470		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,3,5-Trimethylbenzene	<0.360		ug/L	9104619	9104619-BLK1	10/24/09 19:29
1,2,4-Trimethylbenzene	<0.320		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Vinyl chloride	<0.220		ug/L	9104619	9104619-BLK1	10/24/09 19:29
o-Xylene	<0.330		ug/L	9104619	9104619-BLK1	10/24/09 19:29
m,p-Xylene	<0.400		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Xylenes, total	<0.730		ug/L	9104619	9104619-BLK1	10/24/09 19:29
Surrogate: 1,2-Dichloroethane-d4	108%			9104619	9104619-BLK1	10/24/09 19:29
Surrogate: Dibromofluoromethane	112%			9104619	9104619-BLK1	10/24/09 19:29
Surrogate: Toluene-d8	98%			9104619	9104619-BLK1	10/24/09 19:29
Surrogate: 4-Bromofluorobenzene	87%			9104619	9104619-BLK1	10/24/09 19:29

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9104017-BS1								
Acetone	250	229		ug/L	92%	56 - 150	9104017	10/23/09 08:41
Benzene	50.0	49.4		ug/L	99%	80 - 121	9104017	10/23/09 08:41
Bromobenzene	50.0	46.6		ug/L	93%	72 - 130	9104017	10/23/09 08:41
Bromochloromethane	50.0	52.6		ug/L	105%	73 - 137	9104017	10/23/09 08:41
Bromodichloromethane	50.0	54.0		ug/L	108%	75 - 131	9104017	10/23/09 08:41
Bromoform	50.0	60.4		ug/L	121%	65 - 140	9104017	10/23/09 08:41
Bromomethane	50.0	60.5		ug/L	121%	50 - 150	9104017	10/23/09 08:41
2-Butanone	250	269		ug/L	108%	70 - 144	9104017	10/23/09 08:41
sec-Butylbenzene	50.0	48.9		ug/L	98%	72 - 140	9104017	10/23/09 08:41
n-Butylbenzene	50.0	46.9		ug/L	94%	68 - 140	9104017	10/23/09 08:41
tert-Butylbenzene	50.0	49.2		ug/L	98%	76 - 135	9104017	10/23/09 08:41
Carbon disulfide	50.0	47.2		ug/L	94%	74 - 137	9104017	10/23/09 08:41
Carbon Tetrachloride	50.0	58.1		ug/L	116%	71 - 137	9104017	10/23/09 08:41
Chlorobenzene	50.0	51.7		ug/L	103%	80 - 121	9104017	10/23/09 08:41
Chlorodibromomethane	50.0	54.5		ug/L	109%	68 - 137	9104017	10/23/09 08:41
Chloroethane	50.0	50.9		ug/L	102%	50 - 146	9104017	10/23/09 08:41
Chloroform	50.0	50.6		ug/L	101%	73 - 131	9104017	10/23/09 08:41
Chloromethane	50.0	33.1		ug/L	66%	30 - 132	9104017	10/23/09 08:41
2-Chlorotoluene	50.0	46.4		ug/L	93%	74 - 135	9104017	10/23/09 08:41
4-Chlorotoluene	50.0	45.7		ug/L	91%	74 - 132	9104017	10/23/09 08:41
1,2-Dibromo-3-chloropropane	50.0	48.7		ug/L	97%	56 - 145	9104017	10/23/09 08:41
1,2-Dibromoethane (EDB)	50.0	51.9		ug/L	104%	80 - 135	9104017	10/23/09 08:41
Dibromomethane	50.0	57.4		ug/L	115%	78 - 133	9104017	10/23/09 08:41
1,4-Dichlorobenzene	50.0	50.9		ug/L	102%	80 - 120	9104017	10/23/09 08:41
1,3-Dichlorobenzene	50.0	50.9		ug/L	102%	80 - 128	9104017	10/23/09 08:41
1,2-Dichlorobenzene	50.0	54.4		ug/L	109%	80 - 125	9104017	10/23/09 08:41
Dichlorodifluoromethane	50.0	62.2		ug/L	124%	30 - 132	9104017	10/23/09 08:41
1,1-Dichloroethane	50.0	48.8		ug/L	98%	75 - 125	9104017	10/23/09 08:41
1,2-Dichloroethane	50.0	56.1		ug/L	112%	70 - 134	9104017	10/23/09 08:41
cis-1,2-Dichloroethene	50.0	50.5		ug/L	101%	71 - 132	9104017	10/23/09 08:41
1,1-Dichloroethene	50.0	50.0		ug/L	100%	73 - 125	9104017	10/23/09 08:41
trans-1,2-Dichloroethene	50.0	49.0		ug/L	98%	77 - 125	9104017	10/23/09 08:41
1,3-Dichloropropane	50.0	48.4		ug/L	97%	76 - 125	9104017	10/23/09 08:41
1,2-Dichloropropane	50.0	47.5		ug/L	95%	72 - 120	9104017	10/23/09 08:41
2,2-Dichloropropane	50.0	54.4		ug/L	109%	50 - 150	9104017	10/23/09 08:41
cis-1,3-Dichloropropene	50.0	46.5		ug/L	93%	70 - 140	9104017	10/23/09 08:41
trans-1,3-Dichloropropene	50.0	48.5		ug/L	97%	62 - 139	9104017	10/23/09 08:41
1,1-Dichloropropene	50.0	52.3		ug/L	105%	78 - 126	9104017	10/23/09 08:41
Ethylbenzene	50.0	48.4		ug/L	97%	78 - 133	9104017	10/23/09 08:41
Hexachlorobutadiene	50.0	56.0		ug/L	112%	70 - 150	9104017	10/23/09 08:41
2-Hexanone	250	247		ug/L	99%	60 - 150	9104017	10/23/09 08:41

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9104017-BS1								
Isopropylbenzene	50.0	50.5		ug/L	101%	69 - 120	9104017	10/23/09 08:41
p-Isopropyltoluene	50.0	48.7		ug/L	97%	72 - 134	9104017	10/23/09 08:41
Methyl tert-Butyl Ether	50.0	51.6		ug/L	103%	76 - 120	9104017	10/23/09 08:41
Methylene Chloride	50.0	47.1		ug/L	94%	80 - 133	9104017	10/23/09 08:41
4-Methyl-2-pentanone	250	241		ug/L	96%	62 - 146	9104017	10/23/09 08:41
Naphthalene	50.0	52.0		ug/L	104%	71 - 139	9104017	10/23/09 08:41
n-Propylbenzene	50.0	46.4		ug/L	93%	70 - 143	9104017	10/23/09 08:41
Styrene	50.0	51.5		ug/L	103%	80 - 136	9104017	10/23/09 08:41
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/L	108%	80 - 130	9104017	10/23/09 08:41
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L	98%	73 - 131	9104017	10/23/09 08:41
Tetrachloroethene	50.0	54.2		ug/L	108%	77 - 131	9104017	10/23/09 08:41
Toluene	50.0	47.4		ug/L	95%	78 - 125	9104017	10/23/09 08:41
1,2,3-Trichlorobenzene	50.0	55.7		ug/L	111%	71 - 138	9104017	10/23/09 08:41
1,2,4-Trichlorobenzene	50.0	57.3		ug/L	115%	74 - 136	9104017	10/23/09 08:41
1,1,2-Trichloroethane	50.0	50.4		ug/L	101%	80 - 123	9104017	10/23/09 08:41
1,1,1-Trichloroethane	50.0	55.9		ug/L	112%	75 - 137	9104017	10/23/09 08:41
Trichloroethene	50.0	57.3		ug/L	115%	74 - 139	9104017	10/23/09 08:41
Trichlorofluoromethane	50.0	58.6		ug/L	117%	60 - 133	9104017	10/23/09 08:41
1,2,3-Trichloropropane	50.0	44.1		ug/L	88%	64 - 127	9104017	10/23/09 08:41
1,3,5-Trimethylbenzene	50.0	48.5		ug/L	97%	75 - 134	9104017	10/23/09 08:41
1,2,4-Trimethylbenzene	50.0	48.4		ug/L	97%	77 - 134	9104017	10/23/09 08:41
Vinyl chloride	50.0	54.0		ug/L	108%	60 - 122	9104017	10/23/09 08:41
Xylenes, total	150	146		ug/L	97%	78 - 134	9104017	10/23/09 08:41
Surrogate: 1,2-Dichloroethane-d4	25.0	26.0			104%	63 - 140	9104017	10/23/09 08:41
Surrogate: Dibromofluoromethane	25.0	26.2			105%	73 - 131	9104017	10/23/09 08:41
Surrogate: Toluene-d8	25.0	23.1			92%	80 - 120	9104017	10/23/09 08:41
Surrogate: 4-Bromofluorobenzene	25.0	22.8			91%	79 - 125	9104017	10/23/09 08:41
9104619-BS1								
Acetone	250	251		ug/L	100%	56 - 150	9104619	10/24/09 17:49
Benzene	50.0	50.4		ug/L	101%	80 - 121	9104619	10/24/09 17:49
Bromobenzene	50.0	46.2		ug/L	92%	72 - 130	9104619	10/24/09 17:49
Bromochloromethane	50.0	55.4		ug/L	111%	73 - 137	9104619	10/24/09 17:49
Bromodichloromethane	50.0	54.4		ug/L	109%	75 - 131	9104619	10/24/09 17:49
Bromoform	50.0	59.3		ug/L	119%	65 - 140	9104619	10/24/09 17:49
Bromomethane	50.0	56.4		ug/L	113%	50 - 150	9104619	10/24/09 17:49
2-Butanone	250	270		ug/L	108%	70 - 144	9104619	10/24/09 17:49
sec-Butylbenzene	50.0	51.4		ug/L	103%	72 - 140	9104619	10/24/09 17:49
n-Butylbenzene	50.0	49.4		ug/L	99%	68 - 140	9104619	10/24/09 17:49
tert-Butylbenzene	50.0	52.0		ug/L	104%	76 - 135	9104619	10/24/09 17:49
Carbon disulfide	50.0	45.3		ug/L	91%	74 - 137	9104619	10/24/09 17:49

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9104619-BS1								
Carbon Tetrachloride	50.0	59.5		ug/L	119%	71 - 137	9104619	10/24/09 17:49
Chlorobenzene	50.0	53.7		ug/L	107%	80 - 121	9104619	10/24/09 17:49
Chlorodibromomethane	50.0	54.4		ug/L	109%	68 - 137	9104619	10/24/09 17:49
Chloroethane	50.0	48.7		ug/L	97%	50 - 146	9104619	10/24/09 17:49
Chloroform	50.0	51.6		ug/L	103%	73 - 131	9104619	10/24/09 17:49
Chloromethane	50.0	43.8		ug/L	88%	30 - 132	9104619	10/24/09 17:49
2-Chlorotoluene	50.0	47.9		ug/L	96%	74 - 135	9104619	10/24/09 17:49
4-Chlorotoluene	50.0	46.6		ug/L	93%	74 - 132	9104619	10/24/09 17:49
1,2-Dibromo-3-chloropropane	50.0	46.0		ug/L	92%	56 - 145	9104619	10/24/09 17:49
1,2-Dibromoethane (EDB)	50.0	51.7		ug/L	103%	80 - 135	9104619	10/24/09 17:49
Dibromomethane	50.0	57.2		ug/L	114%	78 - 133	9104619	10/24/09 17:49
1,4-Dichlorobenzene	50.0	53.0		ug/L	106%	80 - 120	9104619	10/24/09 17:49
1,3-Dichlorobenzene	50.0	53.5		ug/L	107%	80 - 128	9104619	10/24/09 17:49
1,2-Dichlorobenzene	50.0	56.6		ug/L	113%	80 - 125	9104619	10/24/09 17:49
Dichlorodifluoromethane	50.0	55.1		ug/L	110%	30 - 132	9104619	10/24/09 17:49
1,1-Dichloroethane	50.0	49.0		ug/L	98%	75 - 125	9104619	10/24/09 17:49
1,2-Dichloroethane	50.0	54.3		ug/L	109%	70 - 134	9104619	10/24/09 17:49
cis-1,2-Dichloroethene	50.0	50.6		ug/L	101%	71 - 132	9104619	10/24/09 17:49
1,1-Dichloroethene	50.0	50.0		ug/L	100%	73 - 125	9104619	10/24/09 17:49
trans-1,2-Dichloroethene	50.0	48.7		ug/L	97%	77 - 125	9104619	10/24/09 17:49
1,3-Dichloropropane	50.0	47.6		ug/L	95%	76 - 125	9104619	10/24/09 17:49
1,2-Dichloropropane	50.0	47.3		ug/L	95%	72 - 120	9104619	10/24/09 17:49
2,2-Dichloropropane	50.0	58.3		ug/L	117%	50 - 150	9104619	10/24/09 17:49
cis-1,3-Dichloropropene	50.0	46.7		ug/L	93%	70 - 140	9104619	10/24/09 17:49
trans-1,3-Dichloropropene	50.0	47.9		ug/L	96%	62 - 139	9104619	10/24/09 17:49
1,1-Dichloropropene	50.0	52.9		ug/L	106%	78 - 126	9104619	10/24/09 17:49
Ethylbenzene	50.0	49.6		ug/L	99%	78 - 133	9104619	10/24/09 17:49
Hexachlorobutadiene	50.0	60.3		ug/L	121%	70 - 150	9104619	10/24/09 17:49
2-Hexanone	250	238		ug/L	95%	60 - 150	9104619	10/24/09 17:49
Isopropylbenzene	50.0	52.9		ug/L	106%	69 - 120	9104619	10/24/09 17:49
p-Isopropyltoluene	50.0	51.4		ug/L	103%	72 - 134	9104619	10/24/09 17:49
Methyl tert-Butyl Ether	50.0	49.9		ug/L	100%	76 - 120	9104619	10/24/09 17:49
Methylene Chloride	50.0	47.5		ug/L	95%	80 - 133	9104619	10/24/09 17:49
4-Methyl-2-pentanone	250	225		ug/L	90%	62 - 146	9104619	10/24/09 17:49
Naphthalene	50.0	49.9		ug/L	100%	71 - 139	9104619	10/24/09 17:49
n-Propylbenzene	50.0	48.2		ug/L	96%	70 - 143	9104619	10/24/09 17:49
Styrene	50.0	52.8		ug/L	106%	80 - 136	9104619	10/24/09 17:49
1,1,1,2-Tetrachloroethane	50.0	55.0		ug/L	110%	80 - 130	9104619	10/24/09 17:49
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/L	94%	73 - 131	9104619	10/24/09 17:49
Tetrachloroethene	50.0	58.2		ug/L	116%	77 - 131	9104619	10/24/09 17:49
Toluene	50.0	48.8		ug/L	98%	78 - 125	9104619	10/24/09 17:49

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9104619-BS1								
1,2,3-Trichlorobenzene	50.0	54.9		ug/L	110%	71 - 138	9104619	10/24/09 17:49
1,2,4-Trichlorobenzene	50.0	58.3		ug/L	117%	74 - 136	9104619	10/24/09 17:49
1,1,2-Trichloroethane	50.0	50.8		ug/L	102%	80 - 123	9104619	10/24/09 17:49
1,1,1-Trichloroethane	50.0	57.6		ug/L	115%	75 - 137	9104619	10/24/09 17:49
Trichloroethene	50.0	60.5		ug/L	121%	74 - 139	9104619	10/24/09 17:49
Trichlorofluoromethane	50.0	57.6		ug/L	115%	60 - 133	9104619	10/24/09 17:49
1,2,3-Trichloropropane	50.0	42.8		ug/L	86%	64 - 127	9104619	10/24/09 17:49
1,3,5-Trimethylbenzene	50.0	50.1		ug/L	100%	75 - 134	9104619	10/24/09 17:49
1,2,4-Trimethylbenzene	50.0	50.2		ug/L	100%	77 - 134	9104619	10/24/09 17:49
Vinyl chloride	50.0	50.2		ug/L	100%	60 - 122	9104619	10/24/09 17:49
o-Xylene	50.0	50.0		ug/L	100%	66 - 150	9104619	10/24/09 17:49
m,p-Xylene	100	98.6		ug/L	99%	78 - 132	9104619	10/24/09 17:49
Xylenes, total	150	149		ug/L	99%	78 - 134	9104619	10/24/09 17:49
Surrogate: 1,2-Dichloroethane-d4	25.0	24.9			100%	63 - 140	9104619	10/24/09 17:49
Surrogate: Dibromofluoromethane	25.0	26.6			107%	73 - 131	9104619	10/24/09 17:49
Surrogate: Toluene-d8	25.0	23.0			92%	80 - 120	9104619	10/24/09 17:49
Surrogate: 4-Bromofluorobenzene	25.0	22.3			89%	79 - 125	9104619	10/24/09 17:49

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104017-BSD1												
Acetone		220		ug/L	250	88%	56 - 150	4	31	9104017		10/23/09 09:06
Benzene		48.9		ug/L	50.0	98%	80 - 121	1	12	9104017		10/23/09 09:06
Bromobenzene		47.0		ug/L	50.0	94%	72 - 130	0.8	23	9104017		10/23/09 09:06
Bromochloromethane		52.0		ug/L	50.0	104%	73 - 137	1	32	9104017		10/23/09 09:06
Bromodichloromethane		53.5		ug/L	50.0	107%	75 - 131	0.9	13	9104017		10/23/09 09:06
Bromoform		60.1		ug/L	50.0	120%	65 - 140	0.5	18	9104017		10/23/09 09:06
Bromomethane		58.8		ug/L	50.0	118%	50 - 150	3	50	9104017		10/23/09 09:06
2-Butanone		264		ug/L	250	105%	70 - 144	2	37	9104017		10/23/09 09:06
sec-Butylbenzene		50.0		ug/L	50.0	100%	72 - 140	2	21	9104017		10/23/09 09:06
n-Butylbenzene		48.0		ug/L	50.0	96%	68 - 140	2	11	9104017		10/23/09 09:06
tert-Butylbenzene		50.3		ug/L	50.0	101%	76 - 135	2	20	9104017		10/23/09 09:06
Carbon disulfide		45.9		ug/L	50.0	92%	74 - 137	3	28	9104017		10/23/09 09:06
Carbon Tetrachloride		57.6		ug/L	50.0	115%	71 - 137	0.7	26	9104017		10/23/09 09:06
Chlorobenzene		51.8		ug/L	50.0	104%	80 - 121	0.2	11	9104017		10/23/09 09:06
Chlorodibromomethane		53.6		ug/L	50.0	107%	68 - 137	2	16	9104017		10/23/09 09:06
Chloroethane		48.8		ug/L	50.0	98%	50 - 146	4	35	9104017		10/23/09 09:06
Chloroform		50.4		ug/L	50.0	101%	73 - 131	0.5	32	9104017		10/23/09 09:06
Chloromethane		30.9		ug/L	50.0	62%	30 - 132	7	34	9104017		10/23/09 09:06
2-Chlorotoluene		47.1		ug/L	50.0	94%	74 - 135	2	22	9104017		10/23/09 09:06
4-Chlorotoluene		46.7		ug/L	50.0	93%	74 - 132	2	22	9104017		10/23/09 09:06
1,2-Dibromo-3-chloropropane		48.4		ug/L	50.0	97%	56 - 145	0.5	21	9104017		10/23/09 09:06
1,2-Dibromoethane (EDB)		50.9		ug/L	50.0	102%	80 - 135	2	10	9104017		10/23/09 09:06
Dibromomethane		56.2		ug/L	50.0	112%	78 - 133	2	11	9104017		10/23/09 09:06
1,4-Dichlorobenzene		51.6		ug/L	50.0	103%	80 - 120	1	10	9104017		10/23/09 09:06
1,3-Dichlorobenzene		52.2		ug/L	50.0	104%	80 - 128	2	18	9104017		10/23/09 09:06
1,2-Dichlorobenzene		55.7		ug/L	50.0	111%	80 - 125	3	11	9104017		10/23/09 09:06
Dichlorodifluoromethane		57.3		ug/L	50.0	115%	30 - 132	8	32	9104017		10/23/09 09:06
1,1-Dichloroethane		48.2		ug/L	50.0	96%	75 - 125	1	34	9104017		10/23/09 09:06
1,2-Dichloroethane		55.1		ug/L	50.0	110%	70 - 134	2	25	9104017		10/23/09 09:06
cis-1,2-Dichloroethene		50.1		ug/L	50.0	100%	71 - 132	0.8	32	9104017		10/23/09 09:06
1,1-Dichloroethene		49.2		ug/L	50.0	98%	73 - 125	2	31	9104017		10/23/09 09:06
trans-1,2-Dichloroethene		48.4		ug/L	50.0	97%	77 - 125	1	32	9104017		10/23/09 09:06
1,3-Dichloropropane		47.8		ug/L	50.0	96%	76 - 125	1	20	9104017		10/23/09 09:06
1,2-Dichloropropane		46.7		ug/L	50.0	93%	72 - 120	2	11	9104017		10/23/09 09:06
2,2-Dichloropropane		53.3		ug/L	50.0	107%	50 - 150	2	11	9104017		10/23/09 09:06
cis-1,3-Dichloropropene		45.8		ug/L	50.0	92%	70 - 140	1	35	9104017		10/23/09 09:06
trans-1,3-Dichloropropene		47.6		ug/L	50.0	95%	62 - 139	2	26	9104017		10/23/09 09:06
1,1-Dichloropropene		51.1		ug/L	50.0	102%	78 - 126	2	18	9104017		10/23/09 09:06
Ethylbenzene		48.5		ug/L	50.0	97%	78 - 133	0.2	12	9104017		10/23/09 09:06
Hexachlorobutadiene		56.2		ug/L	50.0	112%	70 - 150	0.4	21	9104017		10/23/09 09:06
2-Hexanone		242		ug/L	250	97%	60 - 150	2	20	9104017		10/23/09 09:06

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104017-BSD1												
Isopropylbenzene		50.8		ug/L	50.0	102%	69 - 120	0.6	15	9104017		10/23/09 09:06
p-Isopropyltoluene		49.9		ug/L	50.0	100%	72 - 134	2	18	9104017		10/23/09 09:06
Methyl tert-Butyl Ether		50.9		ug/L	50.0	102%	76 - 120	2	32	9104017		10/23/09 09:06
Methylene Chloride		46.6		ug/L	50.0	93%	80 - 133	1	36	9104017		10/23/09 09:06
4-Methyl-2-pentanone		236		ug/L	250	94%	62 - 146	2	35	9104017		10/23/09 09:06
Naphthalene		52.4		ug/L	50.0	105%	71 - 139	0.7	30	9104017		10/23/09 09:06
n-Propylbenzene		47.1		ug/L	50.0	94%	70 - 143	2	23	9104017		10/23/09 09:06
Styrene		51.7		ug/L	50.0	103%	80 - 136	0.3	29	9104017		10/23/09 09:06
1,1,1,2-Tetrachloroethane		54.1		ug/L	50.0	108%	80 - 130	0.07	11	9104017		10/23/09 09:06
1,1,2,2-Tetrachloroethane		48.8		ug/L	50.0	98%	73 - 131	0.08	28	9104017		10/23/09 09:06
Tetrachloroethene		54.2		ug/L	50.0	108%	77 - 131	0.07	16	9104017		10/23/09 09:06
Toluene		47.0		ug/L	50.0	94%	78 - 125	0.8	35	9104017		10/23/09 09:06
1,2,3-Trichlorobenzene		56.6		ug/L	50.0	113%	71 - 138	1	28	9104017		10/23/09 09:06
1,2,4-Trichlorobenzene		57.7		ug/L	50.0	115%	74 - 136	0.7	23	9104017		10/23/09 09:06
1,1,2-Trichloroethane		49.7		ug/L	50.0	99%	80 - 123	2	21	9104017		10/23/09 09:06
1,1,1-Trichloroethane		55.4		ug/L	50.0	111%	75 - 137	0.8	29	9104017		10/23/09 09:06
Trichloroethene		56.7		ug/L	50.0	113%	74 - 139	1	11	9104017		10/23/09 09:06
Trichlorofluoromethane		56.3		ug/L	50.0	113%	60 - 133	4	33	9104017		10/23/09 09:06
1,2,3-Trichloropropane		44.0		ug/L	50.0	88%	64 - 127	0.05	25	9104017		10/23/09 09:06
1,3,5-Trimethylbenzene		49.5		ug/L	50.0	99%	75 - 134	2	21	9104017		10/23/09 09:06
1,2,4-Trimethylbenzene		49.0		ug/L	50.0	98%	77 - 134	1	20	9104017		10/23/09 09:06
Vinyl chloride		50.6		ug/L	50.0	101%	60 - 122	6	32	9104017		10/23/09 09:06
Xylenes, total		146		ug/L	150	97%	78 - 134	0.2	18	9104017		10/23/09 09:06
1,1,2-Trifluorotrichloroethane		53.0		ug/L	50.0	106%	73 - 134	4	17	9104017		10/23/09 09:06
Surrogate: 1,2-Dichloroethane-d4		25.8		ug/L	25.0	103%	63 - 140			9104017		10/23/09 09:06
Surrogate: Dibromofluoromethane		26.4		ug/L	25.0	105%	73 - 131			9104017		10/23/09 09:06
Surrogate: Toluene-d8		23.0		ug/L	25.0	92%	80 - 120			9104017		10/23/09 09:06
Surrogate: 4-Bromofluorobenzene		22.9		ug/L	25.0	92%	79 - 125			9104017		10/23/09 09:06
9104619-BSD1												
Acetone		240		ug/L	250	96%	56 - 150	5	31	9104619		10/24/09 18:14
Benzene		49.3		ug/L	50.0	99%	80 - 121	2	12	9104619		10/24/09 18:14
Bromobenzene		46.0		ug/L	50.0	92%	72 - 130	0.3	23	9104619		10/24/09 18:14
Bromochloromethane		54.9		ug/L	50.0	110%	73 - 137	1	32	9104619		10/24/09 18:14
Bromodichloromethane		53.0		ug/L	50.0	106%	75 - 131	2	13	9104619		10/24/09 18:14
Bromoform		59.1		ug/L	50.0	118%	65 - 140	0.4	18	9104619		10/24/09 18:14
Bromomethane		57.6		ug/L	50.0	115%	50 - 150	2	50	9104619		10/24/09 18:14
2-Butanone		263		ug/L	250	105%	70 - 144	3	37	9104619		10/24/09 18:14
sec-Butylbenzene		51.5		ug/L	50.0	103%	72 - 140	0.08	21	9104619		10/24/09 18:14
n-Butylbenzene		49.3		ug/L	50.0	99%	68 - 140	0.1	11	9104619		10/24/09 18:14
tert-Butylbenzene		51.6		ug/L	50.0	103%	76 - 135	0.6	20	9104619		10/24/09 18:14

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104619-BSD1												
Carbon disulfide		44.2		ug/L	50.0	88%	74 - 137	2	28	9104619		10/24/09 18:14
Carbon Tetrachloride		58.1		ug/L	50.0	116%	71 - 137	2	26	9104619		10/24/09 18:14
Chlorobenzene		53.1		ug/L	50.0	106%	80 - 121	1	11	9104619		10/24/09 18:14
Chlorodibromomethane		53.9		ug/L	50.0	108%	68 - 137	0.9	16	9104619		10/24/09 18:14
Chloroethane		47.4		ug/L	50.0	95%	50 - 146	3	35	9104619		10/24/09 18:14
Chloroform		50.6		ug/L	50.0	101%	73 - 131	2	32	9104619		10/24/09 18:14
Chloromethane		42.1		ug/L	50.0	84%	30 - 132	4	34	9104619		10/24/09 18:14
2-Chlorotoluene		47.9		ug/L	50.0	96%	74 - 135	0.06	22	9104619		10/24/09 18:14
4-Chlorotoluene		46.5		ug/L	50.0	93%	74 - 132	0.2	22	9104619		10/24/09 18:14
1,2-Dibromo-3-chloropropane		46.1		ug/L	50.0	92%	56 - 145	0.1	21	9104619		10/24/09 18:14
1,2-Dibromoethane (EDB)		50.7		ug/L	50.0	101%	80 - 135	2	10	9104619		10/24/09 18:14
Dibromomethane		56.2		ug/L	50.0	112%	78 - 133	2	11	9104619		10/24/09 18:14
1,4-Dichlorobenzene		53.0		ug/L	50.0	106%	80 - 120	0.08	10	9104619		10/24/09 18:14
1,3-Dichlorobenzene		53.6		ug/L	50.0	107%	80 - 128	0.2	18	9104619		10/24/09 18:14
1,2-Dichlorobenzene		56.2		ug/L	50.0	112%	80 - 125	0.7	11	9104619		10/24/09 18:14
Dichlorodifluoromethane		54.1		ug/L	50.0	108%	30 - 132	2	32	9104619		10/24/09 18:14
1,1-Dichloroethane		48.1		ug/L	50.0	96%	75 - 125	2	34	9104619		10/24/09 18:14
1,2-Dichloroethane		54.1		ug/L	50.0	108%	70 - 134	0.4	25	9104619		10/24/09 18:14
cis-1,2-Dichloroethene		50.0		ug/L	50.0	100%	71 - 132	1	32	9104619		10/24/09 18:14
1,1-Dichloroethene		49.2		ug/L	50.0	98%	73 - 125	2	31	9104619		10/24/09 18:14
trans-1,2-Dichloroethene		47.9		ug/L	50.0	96%	77 - 125	2	32	9104619		10/24/09 18:14
1,3-Dichloropropane		46.5		ug/L	50.0	93%	76 - 125	2	20	9104619		10/24/09 18:14
1,2-Dichloropropane		46.2		ug/L	50.0	92%	72 - 120	2	11	9104619		10/24/09 18:14
2,2-Dichloropropane		57.5		ug/L	50.0	115%	50 - 150	1	11	9104619		10/24/09 18:14
cis-1,3-Dichloropropene		46.5		ug/L	50.0	93%	70 - 140	0.5	35	9104619		10/24/09 18:14
trans-1,3-Dichloropropene		47.2		ug/L	50.0	94%	62 - 139	2	26	9104619		10/24/09 18:14
1,1-Dichloropropene		51.8		ug/L	50.0	104%	78 - 126	2	18	9104619		10/24/09 18:14
Ethylbenzene		49.2		ug/L	50.0	98%	78 - 133	0.8	12	9104619		10/24/09 18:14
Hexachlorobutadiene		61.0		ug/L	50.0	122%	70 - 150	1	21	9104619		10/24/09 18:14
2-Hexanone		233		ug/L	250	93%	60 - 150	2	20	9104619		10/24/09 18:14
Isopropylbenzene		52.6		ug/L	50.0	105%	69 - 120	0.5	15	9104619		10/24/09 18:14
p-Isopropyltoluene		51.2		ug/L	50.0	102%	72 - 134	0.5	18	9104619		10/24/09 18:14
Methyl tert-Butyl Ether		48.9		ug/L	50.0	98%	76 - 120	2	32	9104619		10/24/09 18:14
Methylene Chloride		46.7		ug/L	50.0	93%	80 - 133	2	36	9104619		10/24/09 18:14
4-Methyl-2-pentanone		222		ug/L	250	89%	62 - 146	1	35	9104619		10/24/09 18:14
Naphthalene		50.0		ug/L	50.0	100%	71 - 139	0.2	30	9104619		10/24/09 18:14
n-Propylbenzene		48.2		ug/L	50.0	96%	70 - 143	0.1	23	9104619		10/24/09 18:14
Styrene		52.7		ug/L	50.0	105%	80 - 136	0.3	29	9104619		10/24/09 18:14
1,1,1,2-Tetrachloroethane		54.7		ug/L	50.0	109%	80 - 130	0.5	11	9104619		10/24/09 18:14
1,1,2,2-Tetrachloroethane		46.6		ug/L	50.0	93%	73 - 131	0.9	28	9104619		10/24/09 18:14
Tetrachloroethene		57.5		ug/L	50.0	115%	77 - 131	1	16	9104619		10/24/09 18:14

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104619-BSD1												
Toluene		48.3		ug/L	50.0	97%	78 - 125	1	35	9104619		10/24/09 18:14
1,2,3-Trichlorobenzene		55.7		ug/L	50.0	111%	71 - 138	1	28	9104619		10/24/09 18:14
1,2,4-Trichlorobenzene		58.9		ug/L	50.0	118%	74 - 136	1	23	9104619		10/24/09 18:14
1,1,2-Trichloroethane		50.3		ug/L	50.0	101%	80 - 123	1	21	9104619		10/24/09 18:14
1,1,1-Trichloroethane		56.7		ug/L	50.0	113%	75 - 137	2	29	9104619		10/24/09 18:14
Trichloroethene		58.9		ug/L	50.0	118%	74 - 139	3	11	9104619		10/24/09 18:14
Trichlorofluoromethane		56.4		ug/L	50.0	113%	60 - 133	2	33	9104619		10/24/09 18:14
1,2,3-Trichloropropane		42.4		ug/L	50.0	85%	64 - 127	1	25	9104619		10/24/09 18:14
1,3,5-Trimethylbenzene		50.0		ug/L	50.0	100%	75 - 134	0.08	21	9104619		10/24/09 18:14
1,2,4-Trimethylbenzene		50.1		ug/L	50.0	100%	77 - 134	0.3	20	9104619		10/24/09 18:14
Vinyl chloride		48.9		ug/L	50.0	98%	60 - 122	3	32	9104619		10/24/09 18:14
o-Xylene		49.5		ug/L	50.0	99%	66 - 150	1	27	9104619		10/24/09 18:14
m,p-Xylene		98.1		ug/L	100	98%	78 - 132	0.5	16	9104619		10/24/09 18:14
Xylenes, total		148		ug/L	150	98%	78 - 134	0.7	18	9104619		10/24/09 18:14
Surrogate: 1,2-Dichloroethane-d4		24.6		ug/L	25.0	98%	63 - 140			9104619		10/24/09 18:14
Surrogate: Dibromofluoromethane		26.5		ug/L	25.0	106%	73 - 131			9104619		10/24/09 18:14
Surrogate: Toluene-d8		22.9		ug/L	25.0	92%	80 - 120			9104619		10/24/09 18:14
Surrogate: 4-Bromofluorobenzene		22.6		ug/L	25.0	90%	79 - 125			9104619		10/24/09 18:14

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9104017-MS1										
Acetone	ND	1950		ug/L	2500	78%	56 - 150	9104017	NSJ2007-03RE1	10/23/09 18:18
Benzene	ND	483		ug/L	500	97%	65 - 151	9104017	NSJ2007-03RE1	10/23/09 18:18
Bromobenzene	ND	455		ug/L	500	91%	69 - 142	9104017	NSJ2007-03RE1	10/23/09 18:18
Bromochloromethane	ND	534		ug/L	500	107%	64 - 154	9104017	NSJ2007-03RE1	10/23/09 18:18
Bromodichloromethane	ND	533		ug/L	500	107%	75 - 138	9104017	NSJ2007-03RE1	10/23/09 18:18
Bromoform	ND	602		ug/L	500	120%	55 - 153	9104017	NSJ2007-03RE1	10/23/09 18:18
Bromomethane	ND	515		ug/L	500	103%	13 - 176	9104017	NSJ2007-03RE1	10/23/09 18:18
2-Butanone	ND	2460		ug/L	2500	98%	45 - 164	9104017	NSJ2007-03RE1	10/23/09 18:18
sec-Butylbenzene	ND	508		ug/L	500	102%	68 - 159	9104017	NSJ2007-03RE1	10/23/09 18:18
n-Butylbenzene	ND	486		ug/L	500	97%	67 - 151	9104017	NSJ2007-03RE1	10/23/09 18:18
tert-Butylbenzene	ND	515		ug/L	500	103%	73 - 153	9104017	NSJ2007-03RE1	10/23/09 18:18
Carbon disulfide	ND	418		ug/L	500	84%	33 - 187	9104017	NSJ2007-03RE1	10/23/09 18:18
Carbon Tetrachloride	ND	590		ug/L	500	118%	64 - 157	9104017	NSJ2007-03RE1	10/23/09 18:18
Chlorobenzene	ND	517		ug/L	500	103%	78 - 136	9104017	NSJ2007-03RE1	10/23/09 18:18
Chlorodibromomethane	ND	545		ug/L	500	109%	64 - 145	9104017	NSJ2007-03RE1	10/23/09 18:18
Chloroethane	ND	490		ug/L	500	98%	48 - 159	9104017	NSJ2007-03RE1	10/23/09 18:18
Chloroform	3.80	503		ug/L	500	100%	72 - 145	9104017	NSJ2007-03RE1	10/23/09 18:18
Chloromethane	ND	251		ug/L	500	50%	10 - 194	9104017	NSJ2007-03RE1	10/23/09 18:18
2-Chlorotoluene	ND	470		ug/L	500	94%	66 - 155	9104017	NSJ2007-03RE1	10/23/09 18:18
4-Chlorotoluene	ND	460		ug/L	500	92%	69 - 149	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2-Dibromo-3-chloropropane	ND	464		ug/L	500	93%	49 - 162	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2-Dibromoethane (EDB)	ND	522		ug/L	500	104%	70 - 152	9104017	NSJ2007-03RE1	10/23/09 18:18
Dibromomethane	ND	576		ug/L	500	115%	75 - 141	9104017	NSJ2007-03RE1	10/23/09 18:18
1,4-Dichlorobenzene	ND	513		ug/L	500	103%	75 - 135	9104017	NSJ2007-03RE1	10/23/09 18:18

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9104017-MS1										
1,3-Dichlorobenzene	ND	525		ug/L	500	105%	72 - 146	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2-Dichlorobenzene	ND	556		ug/L	500	111%	80 - 136	9104017	NSJ2007-03RE1	10/23/09 18:18
Dichlorodifluoromethane	ND	422		ug/L	500	84%	23 - 159	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1-Dichloroethane	ND	455		ug/L	500	91%	64 - 154	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2-Dichloroethane	12.5	544		ug/L	500	106%	72 - 137	9104017	NSJ2007-03RE1	10/23/09 18:18
cis-1,2-Dichloroethene	109	573		ug/L	500	93%	57 - 154	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1-Dichloroethene	ND	484		ug/L	500	97%	34 - 151	9104017	NSJ2007-03RE1	10/23/09 18:18
trans-1,2-Dichloroethene	13.2	477		ug/L	500	93%	57 - 157	9104017	NSJ2007-03RE1	10/23/09 18:18
1,3-Dichloropropane	ND	470		ug/L	500	94%	71 - 137	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2-Dichloropropane	ND	453		ug/L	500	91%	71 - 139	9104017	NSJ2007-03RE1	10/23/09 18:18
2,2-Dichloropropane	ND	532		ug/L	500	106%	10 - 198	9104017	NSJ2007-03RE1	10/23/09 18:18
cis-1,3-Dichloropropene	ND	456		ug/L	500	91%	56 - 156	9104017	NSJ2007-03RE1	10/23/09 18:18
trans-1,3-Dichloropropene	ND	475		ug/L	500	95%	47 - 157	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1-Dichloropropene	ND	511		ug/L	500	102%	70 - 155	9104017	NSJ2007-03RE1	10/23/09 18:18
Ethylbenzene	ND	483		ug/L	500	97%	68 - 157	9104017	NSJ2007-03RE1	10/23/09 18:18
Hexachlorobutadiene	ND	592		ug/L	500	118%	47 - 173	9104017	NSJ2007-03RE1	10/23/09 18:18
2-Hexanone	ND	2270		ug/L	2500	91%	57 - 154	9104017	NSJ2007-03RE1	10/23/09 18:18
Isopropylbenzene	ND	519		ug/L	500	104%	69 - 139	9104017	NSJ2007-03RE1	10/23/09 18:18
p-Isopropyltoluene	ND	504		ug/L	500	101%	69 - 151	9104017	NSJ2007-03RE1	10/23/09 18:18
Methyl tert-Butyl Ether	ND	501		ug/L	500	100%	56 - 152	9104017	NSJ2007-03RE1	10/23/09 18:18
Methylene Chloride	18.1	459		ug/L	500	88%	71 - 136	9104017	NSJ2007-03RE1	10/23/09 18:18
4-Methyl-2-pentanone	36.6	2250		ug/L	2500	88%	62 - 159	9104017	NSJ2007-03RE1	10/23/09 18:18
Naphthalene	ND	487		ug/L	500	97%	56 - 161	9104017	NSJ2007-03RE1	10/23/09 18:18
n-Propylbenzene	ND	474		ug/L	500	95%	61 - 167	9104017	NSJ2007-03RE1	10/23/09 18:18

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9104017-MS1										
Styrene	ND	509		ug/L	500	102%	69 - 150	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1,1,2-Tetrachloroethane	ND	549		ug/L	500	110%	80 - 140	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1,2,2-Tetrachloroethane	ND	463		ug/L	500	93%	76 - 141	9104017	NSJ2007-03RE1	10/23/09 18:18
Tetrachloroethene	ND	571		ug/L	500	114%	63 - 155	9104017	NSJ2007-03RE1	10/23/09 18:18
Toluene	ND	499		ug/L	500	100%	61 - 153	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2,3-Trichlorobenzene	ND	524		ug/L	500	105%	57 - 155	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2,4-Trichlorobenzene	ND	565		ug/L	500	113%	64 - 147	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1,2-Trichloroethane	ND	496		ug/L	500	99%	74 - 138	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1,1-Trichloroethane	ND	565		ug/L	500	113%	78 - 153	9104017	NSJ2007-03RE1	10/23/09 18:18
Trichloroethene	254	807		ug/L	500	111%	74 - 139	9104017	NSJ2007-03RE1	10/23/09 18:18
Trichlorofluoromethane	ND	584		ug/L	500	117%	53 - 149	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2,3-Trichloropropane	ND	424		ug/L	500	85%	49 - 148	9104017	NSJ2007-03RE1	10/23/09 18:18
1,3,5-Trimethylbenzene	ND	494		ug/L	500	99%	67 - 151	9104017	NSJ2007-03RE1	10/23/09 18:18
1,2,4-Trimethylbenzene	ND	492		ug/L	500	98%	69 - 150	9104017	NSJ2007-03RE1	10/23/09 18:18
Vinyl chloride	ND	449		ug/L	500	90%	53 - 137	9104017	NSJ2007-03RE1	10/23/09 18:18
Xylenes, total	ND	1450		ug/L	1500	97%	68 - 158	9104017	NSJ2007-03RE1	10/23/09 18:18
1,1,2-Trifluorotrichloroethane	ND	546		ug/L	500	109%	73 - 136	9104017	NSJ2007-03RE1	10/23/09 18:18
Surrogate: 1,2-Dichloroethane-d4		25.9		ug/L	25.0	104%	63 - 140	9104017	NSJ2007-03RE1	10/23/09 18:18
Surrogate: Dibromofluoromethane		26.7		ug/L	25.0	107%	73 - 131	9104017	NSJ2007-03RE1	10/23/09 18:18
Surrogate: Toluene-d8		23.0		ug/L	25.0	92%	80 - 120	9104017	NSJ2007-03RE1	10/23/09 18:18
Surrogate: 4-Bromofluorobenzene		22.8		ug/L	25.0	91%	79 - 125	9104017	NSJ2007-03RE1	10/23/09 18:18
9104619-MS1										
Acetone	ND	24100		ug/L	25000	97%	56 - 150	9104619	NSJ2084-03RE1	10/27/09 17:09
Benzene	ND	5140		ug/L	5000	103%	65 - 151	9104619	NSJ2084-03RE1	10/27/09 17:09

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9104619-MS1										
Bromobenzene	ND	4650		ug/L	5000	93%	69 - 142	9104619	NSJ2084-03RE1	10/27/09 17:09
Bromochloromethane	ND	5380		ug/L	5000	108%	64 - 154	9104619	NSJ2084-03RE1	10/27/09 17:09
Bromodichloromethane	ND	5760		ug/L	5000	115%	75 - 138	9104619	NSJ2084-03RE1	10/27/09 17:09
Bromoform	ND	5480		ug/L	5000	110%	55 - 153	9104619	NSJ2084-03RE1	10/27/09 17:09
Bromomethane	ND	10100	M7	ug/L	5000	202%	13 - 176	9104619	NSJ2084-03RE1	10/27/09 17:09
2-Butanone	ND	25500		ug/L	25000	102%	45 - 164	9104619	NSJ2084-03RE1	10/27/09 17:09
sec-Butylbenzene	ND	5150		ug/L	5000	103%	68 - 159	9104619	NSJ2084-03RE1	10/27/09 17:09
n-Butylbenzene	ND	5220		ug/L	5000	104%	67 - 151	9104619	NSJ2084-03RE1	10/27/09 17:09
tert-Butylbenzene	ND	5050		ug/L	5000	101%	73 - 153	9104619	NSJ2084-03RE1	10/27/09 17:09
Carbon disulfide	ND	4950		ug/L	5000	99%	33 - 187	9104619	NSJ2084-03RE1	10/27/09 17:09
Carbon Tetrachloride	ND	6520		ug/L	5000	130%	64 - 157	9104619	NSJ2084-03RE1	10/27/09 17:09
Chlorobenzene	ND	5220		ug/L	5000	104%	78 - 136	9104619	NSJ2084-03RE1	10/27/09 17:09
Chlorodibromomethane	ND	5400		ug/L	5000	108%	64 - 145	9104619	NSJ2084-03RE1	10/27/09 17:09
Chloroethane	ND	6500		ug/L	5000	130%	48 - 159	9104619	NSJ2084-03RE1	10/27/09 17:09
Chloroform	29.0	5660		ug/L	5000	113%	72 - 145	9104619	NSJ2084-03RE1	10/27/09 17:09
Chloromethane	ND	4910		ug/L	5000	98%	10 - 194	9104619	NSJ2084-03RE1	10/27/09 17:09
2-Chlorotoluene	ND	4740		ug/L	5000	95%	66 - 155	9104619	NSJ2084-03RE1	10/27/09 17:09
4-Chlorotoluene	ND	4850		ug/L	5000	97%	69 - 149	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2-Dibromo-3-chloropropane	ND	3620		ug/L	5000	72%	49 - 162	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2-Dibromoethane (EDB)	ND	5150		ug/L	5000	103%	70 - 152	9104619	NSJ2084-03RE1	10/27/09 17:09
Dibromomethane	ND	6310		ug/L	5000	126%	75 - 141	9104619	NSJ2084-03RE1	10/27/09 17:09
1,4-Dichlorobenzene	ND	4920		ug/L	5000	98%	75 - 135	9104619	NSJ2084-03RE1	10/27/09 17:09
1,3-Dichlorobenzene	ND	4810		ug/L	5000	96%	72 - 146	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2-Dichlorobenzene	ND	5170		ug/L	5000	103%	80 - 136	9104619	NSJ2084-03RE1	10/27/09 17:09

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9104619-MS1										
Dichlorodifluoromethane	ND	5610		ug/L	5000	112%	23 - 159	9104619	NSJ2084-03RE1	10/27/09 17:09
1,1-Dichloroethane	ND	5730		ug/L	5000	115%	64 - 154	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2-Dichloroethane	127	7140	M7	ug/L	5000	140%	72 - 137	9104619	NSJ2084-03RE1	10/27/09 17:09
cis-1,2-Dichloroethene	ND	6060		ug/L	5000	121%	57 - 154	9104619	NSJ2084-03RE1	10/27/09 17:09
1,1-Dichloroethene	ND	5800		ug/L	5000	116%	34 - 151	9104619	NSJ2084-03RE1	10/27/09 17:09
trans-1,2-Dichloroethene	ND	5510		ug/L	5000	110%	57 - 157	9104619	NSJ2084-03RE1	10/27/09 17:09
1,3-Dichloropropane	ND	5090		ug/L	5000	102%	71 - 137	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2-Dichloropropane	ND	5220		ug/L	5000	104%	71 - 139	9104619	NSJ2084-03RE1	10/27/09 17:09
2,2-Dichloropropane	ND	6820		ug/L	5000	136%	10 - 198	9104619	NSJ2084-03RE1	10/27/09 17:09
cis-1,3-Dichloropropene	ND	4960		ug/L	5000	99%	56 - 156	9104619	NSJ2084-03RE1	10/27/09 17:09
trans-1,3-Dichloropropene	72.0	5160		ug/L	5000	102%	47 - 157	9104619	NSJ2084-03RE1	10/27/09 17:09
1,1-Dichloropropene	ND	5750		ug/L	5000	115%	70 - 155	9104619	NSJ2084-03RE1	10/27/09 17:09
Ethylbenzene	ND	5140		ug/L	5000	103%	68 - 157	9104619	NSJ2084-03RE1	10/27/09 17:09
Hexachlorobutadiene	ND	4560		ug/L	5000	91%	47 - 173	9104619	NSJ2084-03RE1	10/27/09 17:09
2-Hexanone	ND	24100		ug/L	25000	96%	57 - 154	9104619	NSJ2084-03RE1	10/27/09 17:09
Isopropylbenzene	ND	5440		ug/L	5000	109%	69 - 139	9104619	NSJ2084-03RE1	10/27/09 17:09
p-Isopropyltoluene	ND	5120		ug/L	5000	102%	69 - 151	9104619	NSJ2084-03RE1	10/27/09 17:09
Methyl tert-Butyl Ether	ND	3290		ug/L	5000	66%	56 - 152	9104619	NSJ2084-03RE1	10/27/09 17:09
Methylene Chloride	182	4770		ug/L	5000	92%	71 - 136	9104619	NSJ2084-03RE1	10/27/09 17:09
4-Methyl-2-pentanone	367	24000		ug/L	25000	95%	62 - 159	9104619	NSJ2084-03RE1	10/27/09 17:09
Naphthalene	ND	3930		ug/L	5000	79%	56 - 161	9104619	NSJ2084-03RE1	10/27/09 17:09
n-Propylbenzene	ND	4870		ug/L	5000	97%	61 - 167	9104619	NSJ2084-03RE1	10/27/09 17:09
Styrene	ND	5350		ug/L	5000	107%	69 - 150	9104619	NSJ2084-03RE1	10/27/09 17:09
1,1,1,2-Tetrachloroethane	ND	5360		ug/L	5000	107%	80 - 140	9104619	NSJ2084-03RE1	10/27/09 17:09

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9104619-MS1										
1,1,2,2-Tetrachloroethane	ND	4540		ug/L	5000	91%	76 - 141	9104619	NSJ2084-03RE1	10/27/09 17:09
Tetrachloroethene	ND	5420		ug/L	5000	108%	63 - 155	9104619	NSJ2084-03RE1	10/27/09 17:09
Toluene	3270	7900		ug/L	5000	93%	61 - 153	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2,3-Trichlorobenzene	ND	3910		ug/L	5000	78%	57 - 155	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2,4-Trichlorobenzene	ND	4390		ug/L	5000	88%	64 - 147	9104619	NSJ2084-03RE1	10/27/09 17:09
1,1,2-Trichloroethane	ND	4920		ug/L	5000	98%	74 - 138	9104619	NSJ2084-03RE1	10/27/09 17:09
1,1,1-Trichloroethane	ND	6220		ug/L	5000	124%	78 - 153	9104619	NSJ2084-03RE1	10/27/09 17:09
Trichloroethene	ND	5530		ug/L	5000	111%	74 - 139	9104619	NSJ2084-03RE1	10/27/09 17:09
Trichlorofluoromethane	ND	8640	M7	ug/L	5000	173%	53 - 149	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2,3-Trichloropropane	ND	4230		ug/L	5000	85%	49 - 148	9104619	NSJ2084-03RE1	10/27/09 17:09
1,3,5-Trimethylbenzene	ND	5090		ug/L	5000	102%	67 - 151	9104619	NSJ2084-03RE1	10/27/09 17:09
1,2,4-Trimethylbenzene	ND	4920		ug/L	5000	98%	69 - 150	9104619	NSJ2084-03RE1	10/27/09 17:09
Vinyl chloride	ND	6620		ug/L	5000	132%	53 - 137	9104619	NSJ2084-03RE1	10/27/09 17:09
o-Xylene	ND	5320		ug/L	5000	106%	62 - 167	9104619	NSJ2084-03RE1	10/27/09 17:09
m,p-Xylene	ND	10700		ug/L	10000	107%	69 - 155	9104619	NSJ2084-03RE1	10/27/09 17:09
Xylenes, total	ND	16000		ug/L	15000	107%	68 - 158	9104619	NSJ2084-03RE1	10/27/09 17:09
Surrogate: 1,2-Dichloroethane-d4		31.8		ug/L	25.0	127%	63 - 140	9104619	NSJ2084-03RE1	10/27/09 17:09
Surrogate: Dibromofluoromethane		28.1		ug/L	25.0	112%	73 - 131	9104619	NSJ2084-03RE1	10/27/09 17:09
Surrogate: Toluene-d8		23.4		ug/L	25.0	94%	80 - 120	9104619	NSJ2084-03RE1	10/27/09 17:09
Surrogate: 4-Bromofluorobenzene		21.4		ug/L	25.0	86%	79 - 125	9104619	NSJ2084-03RE1	10/27/09 17:09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104017-MSD1												
Acetone	ND	1950		ug/L	2500	78%	56 - 150	0.2	31	9104017	NSJ2007-03RE1	10/23/09 18:43
Benzene	ND	488		ug/L	500	98%	65 - 151	0.9	12	9104017	NSJ2007-03RE1	10/23/09 18:43
Bromobenzene	ND	460		ug/L	500	92%	69 - 142	1	23	9104017	NSJ2007-03RE1	10/23/09 18:43
Bromochloromethane	ND	529		ug/L	500	106%	64 - 154	1	32	9104017	NSJ2007-03RE1	10/23/09 18:43
Bromodichloromethane	ND	541		ug/L	500	108%	75 - 138	1	13	9104017	NSJ2007-03RE1	10/23/09 18:43
Bromoform	ND	612		ug/L	500	122%	55 - 153	2	18	9104017	NSJ2007-03RE1	10/23/09 18:43
Bromomethane	ND	540		ug/L	500	108%	13 - 176	5	50	9104017	NSJ2007-03RE1	10/23/09 18:43
2-Butanone	ND	2470		ug/L	2500	99%	45 - 164	0.4	37	9104017	NSJ2007-03RE1	10/23/09 18:43
sec-Butylbenzene	ND	517		ug/L	500	103%	68 - 159	2	21	9104017	NSJ2007-03RE1	10/23/09 18:43
n-Butylbenzene	ND	496		ug/L	500	99%	67 - 151	2	11	9104017	NSJ2007-03RE1	10/23/09 18:43
tert-Butylbenzene	ND	520		ug/L	500	104%	73 - 153	1	20	9104017	NSJ2007-03RE1	10/23/09 18:43
Carbon disulfide	ND	431		ug/L	500	86%	33 - 187	3	28	9104017	NSJ2007-03RE1	10/23/09 18:43
Carbon Tetrachloride	ND	605		ug/L	500	121%	64 - 157	3	26	9104017	NSJ2007-03RE1	10/23/09 18:43
Chlorobenzene	ND	522		ug/L	500	104%	78 - 136	0.9	11	9104017	NSJ2007-03RE1	10/23/09 18:43
Chlorodibromomethane	ND	550		ug/L	500	110%	64 - 145	0.9	16	9104017	NSJ2007-03RE1	10/23/09 18:43
Chloroethane	ND	471		ug/L	500	94%	48 - 159	4	35	9104017	NSJ2007-03RE1	10/23/09 18:43
Chloroform	3.80	506		ug/L	500	101%	72 - 145	0.8	32	9104017	NSJ2007-03RE1	10/23/09 18:43
Chloromethane	ND	256		ug/L	500	51%	10 - 194	2	34	9104017	NSJ2007-03RE1	10/23/09 18:43
2-Chlorotoluene	ND	476		ug/L	500	95%	66 - 155	1	22	9104017	NSJ2007-03RE1	10/23/09 18:43
4-Chlorotoluene	ND	465		ug/L	500	93%	69 - 149	1	22	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2-Dibromo-3-chloropropane	ND	465		ug/L	500	93%	49 - 162	0.3	21	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2-Dibromoethane (EDB)	ND	517		ug/L	500	103%	70 - 152	0.9	10	9104017	NSJ2007-03RE1	10/23/09 18:43
Dibromomethane	ND	560		ug/L	500	112%	75 - 141	3	11	9104017	NSJ2007-03RE1	10/23/09 18:43
1,4-Dichlorobenzene	ND	520		ug/L	500	104%	75 - 135	1	10	9104017	NSJ2007-03RE1	10/23/09 18:43
1,3-Dichlorobenzene	ND	533		ug/L	500	107%	72 - 146	1	18	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2-Dichlorobenzene	ND	561		ug/L	500	112%	80 - 136	0.8	11	9104017	NSJ2007-03RE1	10/23/09 18:43

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104017-MSD1												
Dichlorodifluoromethane	ND	429		ug/L	500	86%	23 - 159	2	32	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1-Dichloroethane	ND	469		ug/L	500	94%	64 - 154	3	34	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2-Dichloroethane	12.5	548		ug/L	500	107%	72 - 137	0.8	25	9104017	NSJ2007-03RE1	10/23/09 18:43
cis-1,2-Dichloroethene	109	585		ug/L	500	95%	57 - 154	2	32	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1-Dichloroethene	ND	494		ug/L	500	99%	34 - 151	2	31	9104017	NSJ2007-03RE1	10/23/09 18:43
trans-1,2-Dichloroethene	13.2	486		ug/L	500	95%	57 - 157	2	32	9104017	NSJ2007-03RE1	10/23/09 18:43
1,3-Dichloropropane	ND	468		ug/L	500	94%	71 - 137	0.4	20	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2-Dichloropropane	ND	454		ug/L	500	91%	71 - 139	0.2	11	9104017	NSJ2007-03RE1	10/23/09 18:43
2,2-Dichloropropane	ND	562		ug/L	500	112%	10 - 198	5	11	9104017	NSJ2007-03RE1	10/23/09 18:43
cis-1,3-Dichloropropene	ND	465		ug/L	500	93%	56 - 156	2	35	9104017	NSJ2007-03RE1	10/23/09 18:43
trans-1,3-Dichloropropene	ND	481		ug/L	500	96%	47 - 157	1	26	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1-Dichloropropene	ND	520		ug/L	500	104%	70 - 155	2	18	9104017	NSJ2007-03RE1	10/23/09 18:43
Ethylbenzene	ND	491		ug/L	500	98%	68 - 157	2	12	9104017	NSJ2007-03RE1	10/23/09 18:43
Hexachlorobutadiene	ND	632		ug/L	500	126%	47 - 173	7	21	9104017	NSJ2007-03RE1	10/23/09 18:43
2-Hexanone	ND	2250		ug/L	2500	90%	57 - 154	0.9	20	9104017	NSJ2007-03RE1	10/23/09 18:43
Isopropylbenzene	ND	522		ug/L	500	104%	69 - 139	0.7	15	9104017	NSJ2007-03RE1	10/23/09 18:43
p-Isopropyltoluene	ND	516		ug/L	500	103%	69 - 151	2	18	9104017	NSJ2007-03RE1	10/23/09 18:43
Methyl tert-Butyl Ether	ND	497		ug/L	500	99%	56 - 152	0.7	32	9104017	NSJ2007-03RE1	10/23/09 18:43
Methylene Chloride	18.1	459		ug/L	500	88%	71 - 136	0.2	36	9104017	NSJ2007-03RE1	10/23/09 18:43
4-Methyl-2-pentanone	36.6	2230		ug/L	2500	88%	62 - 159	0.7	35	9104017	NSJ2007-03RE1	10/23/09 18:43
Naphthalene	ND	502		ug/L	500	100%	56 - 161	3	30	9104017	NSJ2007-03RE1	10/23/09 18:43
n-Propylbenzene	ND	482		ug/L	500	96%	61 - 167	2	23	9104017	NSJ2007-03RE1	10/23/09 18:43
Styrene	ND	514		ug/L	500	103%	69 - 150	1	29	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1,1,2-Tetrachloroethane	ND	555		ug/L	500	111%	80 - 140	1	11	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1,2,2-Tetrachloroethane	ND	464		ug/L	500	93%	76 - 141	0.09	28	9104017	NSJ2007-03RE1	10/23/09 18:43
Tetrachloroethene	ND	580		ug/L	500	116%	63 - 155	2	16	9104017	NSJ2007-03RE1	10/23/09 18:43

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104017-MSD1												
Toluene	ND	502		ug/L	500	100%	61 - 153	0.8	35	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2,3-Trichlorobenzene	ND	560		ug/L	500	112%	57 - 155	7	28	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2,4-Trichlorobenzene	ND	590		ug/L	500	118%	64 - 147	4	23	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1,2-Trichloroethane	ND	497		ug/L	500	99%	74 - 138	0.2	21	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1,1-Trichloroethane	ND	580		ug/L	500	116%	78 - 153	3	29	9104017	NSJ2007-03RE1	10/23/09 18:43
Trichloroethene	254	825		ug/L	500	114%	74 - 139	2	11	9104017	NSJ2007-03RE1	10/23/09 18:43
Trichlorofluoromethane	ND	591		ug/L	500	118%	53 - 149	1	33	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2,3-Trichloropropane	ND	430		ug/L	500	86%	49 - 148	1	25	9104017	NSJ2007-03RE1	10/23/09 18:43
1,3,5-Trimethylbenzene	ND	501		ug/L	500	100%	67 - 151	2	21	9104017	NSJ2007-03RE1	10/23/09 18:43
1,2,4-Trimethylbenzene	ND	497		ug/L	500	99%	69 - 150	1	20	9104017	NSJ2007-03RE1	10/23/09 18:43
Vinyl chloride	ND	460		ug/L	500	92%	53 - 137	2	32	9104017	NSJ2007-03RE1	10/23/09 18:43
Xylenes, total	ND	1470		ug/L	1500	98%	68 - 158	1	18	9104017	NSJ2007-03RE1	10/23/09 18:43
1,1,2-Trifluorotrichloroethane	ND	557		ug/L	500	111%	73 - 136	2	17	9104017	NSJ2007-03RE1	10/23/09 18:43
Surrogate: 1,2-Dichloroethane-d4		25.6		ug/L	25.0	102%	63 - 140			9104017	NSJ2007-03RE1	10/23/09 18:43
Surrogate: Dibromofluoromethane		26.8		ug/L	25.0	107%	73 - 131			9104017	NSJ2007-03RE1	10/23/09 18:43
Surrogate: Toluene-d8		23.1		ug/L	25.0	92%	80 - 120			9104017	NSJ2007-03RE1	10/23/09 18:43
Surrogate: 4-Bromofluorobenzene		22.5		ug/L	25.0	90%	79 - 125			9104017	NSJ2007-03RE1	10/23/09 18:43
9104619-MSD1												
Acetone	ND	25100		ug/L	25000	100%	56 - 150	4	31	9104619	NSJ2084-03RE1	10/27/09 17:34
Benzene	ND	5110		ug/L	5000	102%	65 - 151	0.7	12	9104619	NSJ2084-03RE1	10/27/09 17:34
Bromobenzene	ND	4790		ug/L	5000	96%	69 - 142	3	23	9104619	NSJ2084-03RE1	10/27/09 17:34
Bromochloromethane	ND	5210		ug/L	5000	104%	64 - 154	3	32	9104619	NSJ2084-03RE1	10/27/09 17:34
Bromodichloromethane	ND	5990		ug/L	5000	120%	75 - 138	4	13	9104619	NSJ2084-03RE1	10/27/09 17:34
Bromoform	ND	5750		ug/L	5000	115%	55 - 153	5	18	9104619	NSJ2084-03RE1	10/27/09 17:34
Bromomethane	ND	10300	M7	ug/L	5000	206%	13 - 176	2	50	9104619	NSJ2084-03RE1	10/27/09 17:34
2-Butanone	ND	26800		ug/L	25000	107%	45 - 164	5	37	9104619	NSJ2084-03RE1	10/27/09 17:34

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104619-MSD1												
sec-Butylbenzene	ND	5340		ug/L	5000	107%	68 - 159	3	21	9104619	NSJ2084-03RE1	10/27/09 17:34
n-Butylbenzene	ND	5440		ug/L	5000	109%	67 - 151	4	11	9104619	NSJ2084-03RE1	10/27/09 17:34
tert-Butylbenzene	ND	5270		ug/L	5000	105%	73 - 153	4	20	9104619	NSJ2084-03RE1	10/27/09 17:34
Carbon disulfide	ND	4440		ug/L	5000	89%	33 - 187	11	28	9104619	NSJ2084-03RE1	10/27/09 17:34
Carbon Tetrachloride	ND	6550		ug/L	5000	131%	64 - 157	0.4	26	9104619	NSJ2084-03RE1	10/27/09 17:34
Chlorobenzene	ND	5350		ug/L	5000	107%	78 - 136	3	11	9104619	NSJ2084-03RE1	10/27/09 17:34
Chlorodibromomethane	ND	5510		ug/L	5000	110%	64 - 145	2	16	9104619	NSJ2084-03RE1	10/27/09 17:34
Chloroethane	ND	5740		ug/L	5000	115%	48 - 159	13	35	9104619	NSJ2084-03RE1	10/27/09 17:34
Chloroform	29.0	5780		ug/L	5000	115%	72 - 145	2	32	9104619	NSJ2084-03RE1	10/27/09 17:34
Chloromethane	ND	3890		ug/L	5000	78%	10 - 194	23	34	9104619	NSJ2084-03RE1	10/27/09 17:34
2-Chlorotoluene	ND	4880		ug/L	5000	98%	66 - 155	3	22	9104619	NSJ2084-03RE1	10/27/09 17:34
4-Chlorotoluene	ND	5000		ug/L	5000	100%	69 - 149	3	22	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2-Dibromo-3-chloropropane	ND	3730		ug/L	5000	75%	49 - 162	3	21	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2-Dibromoethane (EDB)	ND	5170		ug/L	5000	103%	70 - 152	0.5	10	9104619	NSJ2084-03RE1	10/27/09 17:34
Dibromomethane	ND	6250		ug/L	5000	125%	75 - 141	1	11	9104619	NSJ2084-03RE1	10/27/09 17:34
1,4-Dichlorobenzene	ND	5100		ug/L	5000	102%	75 - 135	3	10	9104619	NSJ2084-03RE1	10/27/09 17:34
1,3-Dichlorobenzene	ND	5060		ug/L	5000	101%	72 - 146	5	18	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2-Dichlorobenzene	ND	5390		ug/L	5000	108%	80 - 136	4	11	9104619	NSJ2084-03RE1	10/27/09 17:34
Dichlorodifluoromethane	ND	4280		ug/L	5000	86%	23 - 159	27	32	9104619	NSJ2084-03RE1	10/27/09 17:34
1,1-Dichloroethane	ND	5730		ug/L	5000	115%	64 - 154	0.03	34	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2-Dichloroethane	127	7100	M7	ug/L	5000	139%	72 - 137	0.6	25	9104619	NSJ2084-03RE1	10/27/09 17:34
cis-1,2-Dichloroethene	ND	6020		ug/L	5000	120%	57 - 154	0.6	32	9104619	NSJ2084-03RE1	10/27/09 17:34
1,1-Dichloroethene	ND	5720		ug/L	5000	114%	34 - 151	1	31	9104619	NSJ2084-03RE1	10/27/09 17:34
trans-1,2-Dichloroethene	ND	5320		ug/L	5000	106%	57 - 157	4	32	9104619	NSJ2084-03RE1	10/27/09 17:34
1,3-Dichloropropane	ND	5240		ug/L	5000	105%	71 - 137	3	20	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2-Dichloropropane	ND	5280		ug/L	5000	106%	71 - 139	1	11	9104619	NSJ2084-03RE1	10/27/09 17:34

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104619-MSD1												
2,2-Dichloropropane	ND	7000		ug/L	5000	140%	10 - 198	3	11	9104619	NSJ2084-03RE1	10/27/09 17:34
cis-1,3-Dichloropropene	ND	5030		ug/L	5000	101%	56 - 156	1	35	9104619	NSJ2084-03RE1	10/27/09 17:34
trans-1,3-Dichloropropene	72.0	5280		ug/L	5000	104%	47 - 157	2	26	9104619	NSJ2084-03RE1	10/27/09 17:34
1,1-Dichloropropene	ND	5630		ug/L	5000	113%	70 - 155	2	18	9104619	NSJ2084-03RE1	10/27/09 17:34
Ethylbenzene	ND	5190		ug/L	5000	104%	68 - 157	1	12	9104619	NSJ2084-03RE1	10/27/09 17:34
Hexachlorobutadiene	ND	5150		ug/L	5000	103%	47 - 173	12	21	9104619	NSJ2084-03RE1	10/27/09 17:34
2-Hexanone	ND	24700		ug/L	25000	99%	57 - 154	3	20	9104619	NSJ2084-03RE1	10/27/09 17:34
Isopropylbenzene	ND	5600		ug/L	5000	112%	69 - 139	3	15	9104619	NSJ2084-03RE1	10/27/09 17:34
p-Isopropyltoluene	ND	5310		ug/L	5000	106%	69 - 151	4	18	9104619	NSJ2084-03RE1	10/27/09 17:34
Methyl tert-Butyl Ether	ND	3690		ug/L	5000	74%	56 - 152	11	32	9104619	NSJ2084-03RE1	10/27/09 17:34
Methylene Chloride	182	4690		ug/L	5000	90%	71 - 136	2	36	9104619	NSJ2084-03RE1	10/27/09 17:34
4-Methyl-2-pentanone	367	24900		ug/L	25000	98%	62 - 159	4	35	9104619	NSJ2084-03RE1	10/27/09 17:34
Naphthalene	ND	4170		ug/L	5000	83%	56 - 161	6	30	9104619	NSJ2084-03RE1	10/27/09 17:34
n-Propylbenzene	ND	5010		ug/L	5000	100%	61 - 167	3	23	9104619	NSJ2084-03RE1	10/27/09 17:34
Styrene	ND	5540		ug/L	5000	111%	69 - 150	4	29	9104619	NSJ2084-03RE1	10/27/09 17:34
1,1,1,2-Tetrachloroethane	ND	5570		ug/L	5000	111%	80 - 140	4	11	9104619	NSJ2084-03RE1	10/27/09 17:34
1,1,2,2-Tetrachloroethane	ND	4780		ug/L	5000	96%	76 - 141	5	28	9104619	NSJ2084-03RE1	10/27/09 17:34
Tetrachloroethene	ND	5360		ug/L	5000	107%	63 - 155	1	16	9104619	NSJ2084-03RE1	10/27/09 17:34
Toluene	3270	7950		ug/L	5000	94%	61 - 153	0.6	35	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2,3-Trichlorobenzene	ND	4370		ug/L	5000	87%	57 - 155	11	28	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2,4-Trichlorobenzene	ND	4800		ug/L	5000	96%	64 - 147	9	23	9104619	NSJ2084-03RE1	10/27/09 17:34
1,1,2-Trichloroethane	ND	5110		ug/L	5000	102%	74 - 138	4	21	9104619	NSJ2084-03RE1	10/27/09 17:34
1,1,1-Trichloroethane	ND	6260		ug/L	5000	125%	78 - 153	0.5	29	9104619	NSJ2084-03RE1	10/27/09 17:34
Trichloroethene	ND	5520		ug/L	5000	110%	74 - 139	0.2	11	9104619	NSJ2084-03RE1	10/27/09 17:34
Trichlorofluoromethane	ND	7590	M7	ug/L	5000	152%	53 - 149	13	33	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2,3-Trichloropropane	ND	4430		ug/L	5000	89%	49 - 148	4	25	9104619	NSJ2084-03RE1	10/27/09 17:34

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9104619-MSD1												
1,3,5-Trimethylbenzene	ND	5200		ug/L	5000	104%	67 - 151	2	21	9104619	NSJ2084-03RE1	10/27/09 17:34
1,2,4-Trimethylbenzene	ND	5060		ug/L	5000	101%	69 - 150	3	20	9104619	NSJ2084-03RE1	10/27/09 17:34
Vinyl chloride	ND	5530		ug/L	5000	111%	53 - 137	18	32	9104619	NSJ2084-03RE1	10/27/09 17:34
o-Xylene	ND	5460		ug/L	5000	109%	62 - 167	3	27	9104619	NSJ2084-03RE1	10/27/09 17:34
m,p-Xylene	ND	10800		ug/L	10000	108%	69 - 155	1	16	9104619	NSJ2084-03RE1	10/27/09 17:34
Xylenes, total	ND	16300		ug/L	15000	108%	68 - 158	2	18	9104619	NSJ2084-03RE1	10/27/09 17:34
Surrogate: 1,2-Dichloroethane-d4		31.6		ug/L	25.0	126%	63 - 140			9104619	NSJ2084-03RE1	10/27/09 17:34
Surrogate: Dibromofluoromethane		27.9		ug/L	25.0	111%	73 - 131			9104619	NSJ2084-03RE1	10/27/09 17:34
Surrogate: Toluene-d8		23.3		ug/L	25.0	93%	80 - 120			9104619	NSJ2084-03RE1	10/27/09 17:34
Surrogate: 4-Bromofluorobenzene		21.6		ug/L	25.0	86%	79 - 125			9104619	NSJ2084-03RE1	10/27/09 17:34

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Tennessee
SW846 8260B	Water	N/A	X	N/A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSJ2083
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	10/22/09 13:20

DATA QUALIFIERS AND DEFINITIONS

M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEI

NSJ2083

Cooler Received/Opened On: 10/22/2009 @ 1320

1. Tracking #_____(last 4 digits, FedEx)

Courier : Walk-in IR Gun ID: 95610068

2. Temperature of rep. sample or temp blank when opened: 5.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

14) Logged with other project

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment

Cooler Receipt Form.doc

LF-1

End of Form

Revised 6/24/09

TestAmerica

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404

Page 1 of 1

PO #:

TA Account #: 488472
Invoice to: TriAD Env. Consultants (6921)
Report to: Chris Scott
Project Name: Elmco
Facility ID: 07-Elm01-01
Site Address:
City,State,Zip: Tennessee

Client: TriAD Env. Consultants (6921)
Address: 207 Donelson Pike, Suite 200
City, State, Zip: Nashville TN 37214
Client Invoice Contact: Kim Browers
Client Project Mgr: Chris Scott
Client Telephone#: (615) 889-6888 Fax: (615) 889-4004
Sampler Name (Print): Chris Scott
SamplerSignature:

Regulatory District (CA):

NSJ2083
11/05/09 23:59

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B Volatile Organics	RUSH TAT (Pre Schedule) *
FV-6	10/22/09	1105	3	X					X												X	

NOTES/SPECIAL INSTRUCTIONS: BO # 16518

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.
* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.
There may be a charge assessed for TestAmerica disposing of sample remainders.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
Chris Scott	10/22/09	1320						

Shipped Via:

Received for TestAmerica by: Date: 10/22/09 Time: 1320

Temperature Upon Receipt: 4.7 corrected

Sample Containers Intact? Y N
VOCs Free of Headspace? Y N

QC Deliverables (Please Circle One) :
Level 2 Level 3 Level 4 Site Specific
(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)

Date Due of Report:

10/22/09 1320 5.1°

November 2009 Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

November 30, 2009 4:26:38PM

Client: TriAD Env. Consultants (6921)
207 Donelson Pike, Suite 200
Nashville, TN 37214
Attn: Chris Scott

Work Order: NSK1951
Project Name: Elmco
Project Nbr: 07-Elm01-01
P/O Nbr:
Date Received: 11/20/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
EV-6	NSK1951-01	11/19/09 11:30

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Tennessee Certification Number: 02008

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Jennifer Gambill

Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSK1951-01 (EV-6 - Water) Sampled: 11/19/09 11:30								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**72.4**		ug/L	50.0	1	11/25/09 00:43	SW846 8260B	9113909
Benzene	**9.42**		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Bromobenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Bromochloromethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Bromodichloromethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Bromoform	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Bromomethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
2-Butanone	ND		ug/L	50.0	1	11/25/09 00:43	SW846 8260B	9113909
sec-Butylbenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
n-Butylbenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
tert-Butylbenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Carbon disulfide	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Carbon Tetrachloride	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Chlorobenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Chlorodibromomethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Chloroethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Chloroform	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Chloromethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
2-Chlorotoluene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
4-Chlorotoluene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Dibromomethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,4-Dichlorobenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,3-Dichlorobenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2-Dichlorobenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Dichlorodifluoromethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,1-Dichloroethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2-Dichloroethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,1-Dichloroethene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,3-Dichloropropane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2-Dichloropropane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
2,2-Dichloropropane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,1-Dichloropropene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Ethylbenzene	**311**		ug/L	10.0	10	11/25/09 01:08	SW846 8260B	9113909
Hexachlorobutadiene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
2-Hexanone	ND		ug/L	50.0	1	11/25/09 00:43	SW846 8260B	9113909
Isopropylbenzene	**4.01**		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSK1951-01 (EV-6 - Water) - cont. Sampled: 11/19/09 11:30								
Volatile Organic Compounds by EPA Method 8260B - cont.								
p-Isopropyltoluene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Methylene Chloride	ND		ug/L	5.00	1	11/25/09 00:43	SW846 8260B	9113909
4-Methyl-2-pentanone	ND		ug/L	10.0	1	11/25/09 00:43	SW846 8260B	9113909
Naphthalene	ND		ug/L	5.00	1	11/25/09 00:43	SW846 8260B	9113909
n-Propylbenzene	**3.19**		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Styrene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Tetrachloroethene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Toluene	**92500**		ug/L	1000	1000	11/25/09 22:55	SW846 8260B	9114381
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,1,2-Trichloroethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,1,1-Trichloroethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Trichloroethene	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Trichlorofluoromethane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2,3-Trichloropropane	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,3,5-Trimethylbenzene	**2.79**		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
1,2,4-Trimethylbenzene	**10.4**		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Vinyl chloride	ND		ug/L	1.00	1	11/25/09 00:43	SW846 8260B	9113909
Xylenes, total	**2050**		ug/L	30.0	10	11/25/09 01:08	SW846 8260B	9113909
Surr: 1,2-Dichloroethane-d4 (63-140%)	*109 %*					*11/25/09 00:43*	*SW846 8260B*	*9113909*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*109 %*					*11/25/09 01:08*	*SW846 8260B*	*9113909*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*103 %*					*11/25/09 22:55*	*SW846 8260B*	*9114381*
Surr: Dibromofluoromethane (73-131%)	*115 %*					*11/25/09 00:43*	*SW846 8260B*	*9113909*
Surr: Dibromofluoromethane (73-131%)	*116 %*					*11/25/09 01:08*	*SW846 8260B*	*9113909*
Surr: Dibromofluoromethane (73-131%)	*105 %*					*11/25/09 22:55*	*SW846 8260B*	*9114381*
Surr: Toluene-d8 (80-120%)	*16 %*	*ZX*				*11/25/09 00:43*	*SW846 8260B*	*9113909*
Surr: Toluene-d8 (80-120%)	*76 %*	*ZX*				*11/25/09 01:08*	*SW846 8260B*	*9113909*
Surr: Toluene-d8 (80-120%)	*101 %*					*11/25/09 22:55*	*SW846 8260B*	*9114381*
Surr: 4-Bromofluorobenzene (79-125%)	*90 %*					*11/25/09 00:43*	*SW846 8260B*	*9113909*
Surr: 4-Bromofluorobenzene (79-125%)	*89 %*					*11/25/09 01:08*	*SW846 8260B*	*9113909*
Surr: 4-Bromofluorobenzene (79-125%)	*93 %*					*11/25/09 22:55*	*SW846 8260B*	*9114381*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9113909-BLK1						
Acetone	<25.0		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Benzene	<0.410		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Bromobenzene	<0.360		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Bromochloromethane	<0.470		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Bromodichloromethane	<0.270		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Bromoform	<0.430		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Bromomethane	<0.300		ug/L	9113909	9113909-BLK1	11/24/09 22:38
2-Butanone	<2.10		ug/L	9113909	9113909-BLK1	11/24/09 22:38
sec-Butylbenzene	<0.360		ug/L	9113909	9113909-BLK1	11/24/09 22:38
n-Butylbenzene	<0.310		ug/L	9113909	9113909-BLK1	11/24/09 22:38
tert-Butylbenzene	<0.380		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Carbon disulfide	<0.360		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Carbon Tetrachloride	<0.330		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Chlorobenzene	<0.220		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Chlorodibromomethane	<0.260		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Chloroethane	<0.460		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Chloroform	<0.250		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Chloromethane	<0.390		ug/L	9113909	9113909-BLK1	11/24/09 22:38
2-Chlorotoluene	<0.510		ug/L	9113909	9113909-BLK1	11/24/09 22:38
4-Chlorotoluene	<0.510		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2-Dibromoethane (EDB)	<0.460		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Dibromomethane	<0.410		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,4-Dichlorobenzene	<0.430		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,3-Dichlorobenzene	<0.320		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2-Dichlorobenzene	<0.400		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Dichlorodifluoromethane	<0.190		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,1-Dichloroethane	<0.340		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2-Dichloroethane	<0.350		ug/L	9113909	9113909-BLK1	11/24/09 22:38
cis-1,2-Dichloroethene	<0.330		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,1-Dichloroethene	<0.220		ug/L	9113909	9113909-BLK1	11/24/09 22:38
trans-1,2-Dichloroethene	<0.330		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,3-Dichloropropane	<0.270		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2-Dichloropropane	<0.240		ug/L	9113909	9113909-BLK1	11/24/09 22:38
2,2-Dichloropropane	<0.300		ug/L	9113909	9113909-BLK1	11/24/09 22:38
cis-1,3-Dichloropropene	<0.330		ug/L	9113909	9113909-BLK1	11/24/09 22:38
trans-1,3-Dichloropropene	<0.330		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,1-Dichloropropene	<0.260		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Ethylbenzene	<0.350		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Hexachlorobutadiene	<0.790		ug/L	9113909	9113909-BLK1	11/24/09 22:38

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9113909-BLK1						
2-Hexanone	<1.40		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Isopropylbenzene	<0.400		ug/L	9113909	9113909-BLK1	11/24/09 22:38
p-Isopropyltoluene	<0.330		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Methyl tert-Butyl Ether	<0.320		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Methylene Chloride	<0.480		ug/L	9113909	9113909-BLK1	11/24/09 22:38
4-Methyl-2-pentanone	<1.40		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Naphthalene	0.400		ug/L	9113909	9113909-BLK1	11/24/09 22:38
n-Propylbenzene	<0.390		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Styrene	<0.260		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,1,1,2-Tetrachloroethane	<0.200		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,1,2,2-Tetrachloroethane	<0.360		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Tetrachloroethene	<0.320		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Toluene	<0.350		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2,3-Trichlorobenzene	<0.270		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2,4-Trichlorobenzene	<0.360		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,1,2-Trichloroethane	<0.320		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,1,1-Trichloroethane	<0.190		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Trichloroethene	<0.260		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Trichlorofluoromethane	<0.220		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2,3-Trichloropropane	<0.470		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,3,5-Trimethylbenzene	<0.360		ug/L	9113909	9113909-BLK1	11/24/09 22:38
1,2,4-Trimethylbenzene	<0.320		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Vinyl chloride	<0.220		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Xylenes, total	<0.730		ug/L	9113909	9113909-BLK1	11/24/09 22:38
Surrogate: 1,2-Dichloroethane-d4	101%			9113909	9113909-BLK1	11/24/09 22:38
Surrogate: Dibromofluoromethane	107%			9113909	9113909-BLK1	11/24/09 22:38
Surrogate: Toluene-d8	100%			9113909	9113909-BLK1	11/24/09 22:38
Surrogate: 4-Bromofluorobenzene	97%			9113909	9113909-BLK1	11/24/09 22:38
9114381-BLK1						
Acetone	<25.0		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Benzene	<0.410		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Bromobenzene	<0.360		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Bromochloromethane	<0.470		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Bromodichloromethane	<0.270		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Bromoform	<0.430		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Bromomethane	<0.300		ug/L	9114381	9114381-BLK1	11/25/09 21:40
2-Butanone	<2.10		ug/L	9114381	9114381-BLK1	11/25/09 21:40
sec-Butylbenzene	<0.360		ug/L	9114381	9114381-BLK1	11/25/09 21:40
n-Butylbenzene	<0.310		ug/L	9114381	9114381-BLK1	11/25/09 21:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9114381-BLK1						
tert-Butylbenzene	<0.380		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Carbon disulfide	<0.360		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Carbon Tetrachloride	<0.330		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Chlorobenzene	<0.220		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Chlorodibromomethane	<0.260		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Chloroethane	<0.460		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Chloroform	<0.250		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Chloromethane	<0.390		ug/L	9114381	9114381-BLK1	11/25/09 21:40
2-Chlorotoluene	<0.510		ug/L	9114381	9114381-BLK1	11/25/09 21:40
4-Chlorotoluene	<0.510		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2-Dibromo-3-chloropropane	<0.860		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2-Dibromoethane (EDB)	<0.460		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Dibromomethane	<0.410		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,4-Dichlorobenzene	<0.430		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,3-Dichlorobenzene	<0.320		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2-Dichlorobenzene	0.470		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Dichlorodifluoromethane	<0.190		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,1-Dichloroethane	<0.340		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2-Dichloroethane	<0.350		ug/L	9114381	9114381-BLK1	11/25/09 21:40
cis-1,2-Dichloroethene	<0.330		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,1-Dichloroethene	<0.220		ug/L	9114381	9114381-BLK1	11/25/09 21:40
trans-1,2-Dichloroethene	<0.330		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,3-Dichloropropane	<0.270		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2-Dichloropropane	<0.240		ug/L	9114381	9114381-BLK1	11/25/09 21:40
2,2-Dichloropropane	<0.300		ug/L	9114381	9114381-BLK1	11/25/09 21:40
cis-1,3-Dichloropropene	<0.330		ug/L	9114381	9114381-BLK1	11/25/09 21:40
trans-1,3-Dichloropropene	<0.330		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,1-Dichloropropene	<0.260		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Ethylbenzene	<0.350		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Hexachlorobutadiene	<0.790		ug/L	9114381	9114381-BLK1	11/25/09 21:40
2-Hexanone	<1.40		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Isopropylbenzene	<0.400		ug/L	9114381	9114381-BLK1	11/25/09 21:40
p-Isopropyltoluene	<0.330		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Methyl tert-Butyl Ether	<0.320		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Methylene Chloride	<0.480		ug/L	9114381	9114381-BLK1	11/25/09 21:40
4-Methyl-2-pentanone	<1.40		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Naphthalene	1.71		ug/L	9114381	9114381-BLK1	11/25/09 21:40
n-Propylbenzene	<0.390		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Styrene	<0.260		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,1,1,2-Tetrachloroethane	<0.200		ug/L	9114381	9114381-BLK1	11/25/09 21:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
9114381-BLK1						
1,1,2,2-Tetrachloroethane	<0.360		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Tetrachloroethene	<0.320		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Toluene	<0.350		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2,3-Trichlorobenzene	<0.270		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2,4-Trichlorobenzene	<0.360		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,1,2-Trichloroethane	<0.320		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,1,1-Trichloroethane	<0.190		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Trichloroethene	<0.260		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Trichlorofluoromethane	<0.220		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2,3-Trichloropropane	<0.470		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,3,5-Trimethylbenzene	<0.360		ug/L	9114381	9114381-BLK1	11/25/09 21:40
1,2,4-Trimethylbenzene	<0.320		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Vinyl chloride	<0.220		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Xylenes, total	<0.730		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Diisopropyl Ether	<0.410		ug/L	9114381	9114381-BLK1	11/25/09 21:40
Surrogate: 1,2-Dichloroethane-d4	102%			9114381	9114381-BLK1	11/25/09 21:40
Surrogate: Dibromofluoromethane	105%			9114381	9114381-BLK1	11/25/09 21:40
Surrogate: Toluene-d8	100%			9114381	9114381-BLK1	11/25/09 21:40
Surrogate: 4-Bromofluorobenzene	96%			9114381	9114381-BLK1	11/25/09 21:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9113909-BS1								
Acetone	250	302		ug/L	121%	56 - 150	9113909	11/24/09 20:08
Benzene	50.0	53.4		ug/L	107%	80 - 121	9113909	11/24/09 20:08
Bromobenzene	50.0	52.6		ug/L	105%	72 - 130	9113909	11/24/09 20:08
Bromochloromethane	50.0	58.0		ug/L	116%	73 - 137	9113909	11/24/09 20:08
Bromodichloromethane	50.0	55.9		ug/L	112%	75 - 131	9113909	11/24/09 20:08
Bromoform	50.0	46.1		ug/L	92%	65 - 140	9113909	11/24/09 20:08
Bromomethane	50.0	52.7		ug/L	105%	50 - 150	9113909	11/24/09 20:08
2-Butanone	250	299		ug/L	119%	70 - 144	9113909	11/24/09 20:08
sec-Butylbenzene	50.0	55.6		ug/L	111%	72 - 140	9113909	11/24/09 20:08
n-Butylbenzene	50.0	58.1		ug/L	116%	68 - 140	9113909	11/24/09 20:08
tert-Butylbenzene	50.0	54.4		ug/L	109%	76 - 135	9113909	11/24/09 20:08
Carbon disulfide	50.0	52.2		ug/L	104%	74 - 137	9113909	11/24/09 20:08
Carbon Tetrachloride	50.0	51.9		ug/L	104%	71 - 137	9113909	11/24/09 20:08
Chlorobenzene	50.0	53.0		ug/L	106%	80 - 121	9113909	11/24/09 20:08
Chlorodibromomethane	50.0	51.6		ug/L	103%	68 - 137	9113909	11/24/09 20:08
Chloroethane	50.0	48.5		ug/L	97%	50 - 146	9113909	11/24/09 20:08
Chloroform	50.0	63.0		ug/L	126%	73 - 131	9113909	11/24/09 20:08
Chloromethane	50.0	29.9		ug/L	60%	30 - 132	9113909	11/24/09 20:08
2-Chlorotoluene	50.0	52.4		ug/L	105%	74 - 135	9113909	11/24/09 20:08
4-Chlorotoluene	50.0	52.1		ug/L	104%	74 - 132	9113909	11/24/09 20:08
1,2-Dibromo-3-chloropropane	50.0	45.7		ug/L	91%	56 - 145	9113909	11/24/09 20:08
1,2-Dibromoethane (EDB)	50.0	51.2		ug/L	102%	80 - 135	9113909	11/24/09 20:08
Dibromomethane	50.0	57.2		ug/L	114%	78 - 133	9113909	11/24/09 20:08
1,4-Dichlorobenzene	50.0	52.9		ug/L	106%	80 - 120	9113909	11/24/09 20:08
1,3-Dichlorobenzene	50.0	53.8		ug/L	108%	80 - 128	9113909	11/24/09 20:08
1,2-Dichlorobenzene	50.0	56.0		ug/L	112%	80 - 125	9113909	11/24/09 20:08
Dichlorodifluoromethane	50.0	55.6		ug/L	111%	30 - 132	9113909	11/24/09 20:08
1,1-Dichloroethane	50.0	55.8		ug/L	112%	75 - 125	9113909	11/24/09 20:08
1,2-Dichloroethane	50.0	55.7		ug/L	111%	70 - 134	9113909	11/24/09 20:08
cis-1,2-Dichloroethene	50.0	53.5		ug/L	107%	71 - 132	9113909	11/24/09 20:08
1,1-Dichloroethene	50.0	59.4		ug/L	119%	73 - 125	9113909	11/24/09 20:08
trans-1,2-Dichloroethene	50.0	51.6		ug/L	103%	77 - 125	9113909	11/24/09 20:08
1,3-Dichloropropane	50.0	50.1		ug/L	100%	76 - 125	9113909	11/24/09 20:08
1,2-Dichloropropane	50.0	53.8		ug/L	108%	72 - 120	9113909	11/24/09 20:08
2,2-Dichloropropane	50.0	58.9		ug/L	118%	50 - 150	9113909	11/24/09 20:08
cis-1,3-Dichloropropene	50.0	43.9		ug/L	88%	70 - 140	9113909	11/24/09 20:08
trans-1,3-Dichloropropene	50.0	46.6		ug/L	93%	62 - 139	9113909	11/24/09 20:08
1,1-Dichloropropene	50.0	54.2		ug/L	108%	78 - 126	9113909	11/24/09 20:08
Ethylbenzene	50.0	51.3		ug/L	103%	78 - 133	9113909	11/24/09 20:08
Hexachlorobutadiene	50.0	61.7		ug/L	123%	70 - 150	9113909	11/24/09 20:08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9113909-BS1								
2-Hexanone	250	270		ug/L	108%	60 - 150	9113909	11/24/09 20:08
Isopropylbenzene	50.0	53.0		ug/L	106%	69 - 120	9113909	11/24/09 20:08
p-Isopropyltoluene	50.0	53.9		ug/L	108%	72 - 134	9113909	11/24/09 20:08
Methyl tert-Butyl Ether	50.0	49.0		ug/L	98%	76 - 120	9113909	11/24/09 20:08
Methylene Chloride	50.0	53.5		ug/L	107%	80 - 133	9113909	11/24/09 20:08
4-Methyl-2-pentanone	250	249		ug/L	100%	62 - 146	9113909	11/24/09 20:08
Naphthalene	50.0	51.2		ug/L	102%	71 - 139	9113909	11/24/09 20:08
n-Propylbenzene	50.0	53.9		ug/L	108%	70 - 143	9113909	11/24/09 20:08
Styrene	50.0	53.3		ug/L	107%	80 - 136	9113909	11/24/09 20:08
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L	99%	80 - 130	9113909	11/24/09 20:08
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L	102%	73 - 131	9113909	11/24/09 20:08
Tetrachloroethene	50.0	51.5		ug/L	103%	77 - 131	9113909	11/24/09 20:08
Toluene	50.0	50.4		ug/L	101%	78 - 125	9113909	11/24/09 20:08
1,2,3-Trichlorobenzene	50.0	54.4		ug/L	109%	71 - 138	9113909	11/24/09 20:08
1,2,4-Trichlorobenzene	50.0	60.0		ug/L	120%	74 - 136	9113909	11/24/09 20:08
1,1,2-Trichloroethane	50.0	51.2		ug/L	102%	80 - 123	9113909	11/24/09 20:08
1,1,1-Trichloroethane	50.0	54.7		ug/L	109%	75 - 137	9113909	11/24/09 20:08
Trichloroethene	50.0	55.3		ug/L	111%	74 - 139	9113909	11/24/09 20:08
Trichlorofluoromethane	50.0	48.8		ug/L	98%	60 - 133	9113909	11/24/09 20:08
1,2,3-Trichloropropane	50.0	47.2		ug/L	94%	64 - 127	9113909	11/24/09 20:08
1,3,5-Trimethylbenzene	50.0	52.7		ug/L	105%	75 - 134	9113909	11/24/09 20:08
1,2,4-Trimethylbenzene	50.0	53.8		ug/L	108%	77 - 134	9113909	11/24/09 20:08
Vinyl chloride	50.0	55.8		ug/L	112%	60 - 122	9113909	11/24/09 20:08
Xylenes, total	150	153		ug/L	102%	78 - 134	9113909	11/24/09 20:08
Surrogate: 1,2-Dichloroethane-d4	25.0	24.1			96%	63 - 140	9113909	11/24/09 20:08
Surrogate: Dibromofluoromethane	25.0	25.3			101%	73 - 131	9113909	11/24/09 20:08
Surrogate: Toluene-d8	25.0	23.4			93%	80 - 120	9113909	11/24/09 20:08
Surrogate: 4-Bromofluorobenzene	25.0	24.8			99%	79 - 125	9113909	11/24/09 20:08
9114381-BS1								
Acetone	250	273		ug/L	109%	56 - 150	9114381	11/25/09 19:10
Benzene	50.0	55.0		ug/L	110%	80 - 121	9114381	11/25/09 19:10
Bromobenzene	50.0	53.1		ug/L	106%	72 - 130	9114381	11/25/09 19:10
Bromochloromethane	50.0	60.7		ug/L	121%	73 - 137	9114381	11/25/09 19:10
Bromodichloromethane	50.0	57.5		ug/L	115%	75 - 131	9114381	11/25/09 19:10
Bromoform	50.0	47.4		ug/L	95%	65 - 140	9114381	11/25/09 19:10
Bromomethane	50.0	67.0		ug/L	134%	50 - 150	9114381	11/25/09 19:10
2-Butanone	250	302		ug/L	121%	70 - 144	9114381	11/25/09 19:10
sec-Butylbenzene	50.0	57.4		ug/L	115%	72 - 140	9114381	11/25/09 19:10
n-Butylbenzene	50.0	60.1		ug/L	120%	68 - 140	9114381	11/25/09 19:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9114381-BS1								
tert-Butylbenzene	50.0	55.5		ug/L	111%	76 - 135	9114381	11/25/09 19:10
Carbon disulfide	50.0	53.9		ug/L	108%	74 - 137	9114381	11/25/09 19:10
Carbon Tetrachloride	50.0	56.8		ug/L	114%	71 - 137	9114381	11/25/09 19:10
Chlorobenzene	50.0	55.3		ug/L	111%	80 - 121	9114381	11/25/09 19:10
Chlorodibromomethane	50.0	53.2		ug/L	106%	68 - 137	9114381	11/25/09 19:10
Chloroethane	50.0	52.1		ug/L	104%	50 - 146	9114381	11/25/09 19:10
Chloroform	50.0	66.6	L1	ug/L	133%	73 - 131	9114381	11/25/09 19:10
Chloromethane	50.0	39.2		ug/L	78%	30 - 132	9114381	11/25/09 19:10
2-Chlorotoluene	50.0	53.9		ug/L	108%	74 - 135	9114381	11/25/09 19:10
4-Chlorotoluene	50.0	53.4		ug/L	107%	74 - 132	9114381	11/25/09 19:10
1,2-Dibromo-3-chloropropane	50.0	45.5		ug/L	91%	56 - 145	9114381	11/25/09 19:10
1,2-Dibromoethane (EDB)	50.0	51.7		ug/L	103%	80 - 135	9114381	11/25/09 19:10
Dibromomethane	50.0	58.2		ug/L	116%	78 - 133	9114381	11/25/09 19:10
1,4-Dichlorobenzene	50.0	53.5		ug/L	107%	80 - 120	9114381	11/25/09 19:10
1,3-Dichlorobenzene	50.0	54.3		ug/L	109%	80 - 128	9114381	11/25/09 19:10
1,2-Dichlorobenzene	50.0	57.4		ug/L	115%	80 - 125	9114381	11/25/09 19:10
Dichlorodifluoromethane	50.0	78.8	L1	ug/L	158%	30 - 132	9114381	11/25/09 19:10
1,1-Dichloroethane	50.0	57.5		ug/L	115%	75 - 125	9114381	11/25/09 19:10
1,2-Dichloroethane	50.0	57.2		ug/L	114%	70 - 134	9114381	11/25/09 19:10
cis-1,2-Dichloroethene	50.0	55.9		ug/L	112%	71 - 132	9114381	11/25/09 19:10
1,1-Dichloroethene	50.0	58.7		ug/L	117%	73 - 125	9114381	11/25/09 19:10
trans-1,2-Dichloroethene	50.0	55.0		ug/L	110%	77 - 125	9114381	11/25/09 19:10
1,3-Dichloropropane	50.0	50.9		ug/L	102%	76 - 125	9114381	11/25/09 19:10
1,2-Dichloropropane	50.0	55.0		ug/L	110%	72 - 120	9114381	11/25/09 19:10
2,2-Dichloropropane	50.0	62.7		ug/L	125%	50 - 150	9114381	11/25/09 19:10
cis-1,3-Dichloropropene	50.0	44.6		ug/L	89%	70 - 140	9114381	11/25/09 19:10
trans-1,3-Dichloropropene	50.0	47.1		ug/L	94%	62 - 139	9114381	11/25/09 19:10
1,1-Dichloropropene	50.0	56.5		ug/L	113%	78 - 126	9114381	11/25/09 19:10
Ethylbenzene	50.0	53.0		ug/L	106%	78 - 133	9114381	11/25/09 19:10
Hexachlorobutadiene	50.0	63.7		ug/L	127%	70 - 150	9114381	11/25/09 19:10
2-Hexanone	250	269		ug/L	108%	60 - 150	9114381	11/25/09 19:10
Isopropylbenzene	50.0	54.7		ug/L	109%	69 - 120	9114381	11/25/09 19:10
p-Isopropyltoluene	50.0	55.5		ug/L	111%	72 - 134	9114381	11/25/09 19:10
Methyl tert-Butyl Ether	50.0	51.1		ug/L	102%	76 - 120	9114381	11/25/09 19:10
Methylene Chloride	50.0	55.5		ug/L	111%	80 - 133	9114381	11/25/09 19:10
4-Methyl-2-pentanone	250	252		ug/L	101%	62 - 146	9114381	11/25/09 19:10
Naphthalene	50.0	52.9		ug/L	106%	71 - 139	9114381	11/25/09 19:10
n-Propylbenzene	50.0	55.0		ug/L	110%	70 - 143	9114381	11/25/09 19:10
Styrene	50.0	54.6		ug/L	109%	80 - 136	9114381	11/25/09 19:10
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L	106%	80 - 130	9114381	11/25/09 19:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
9114381-BS1								
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L	103%	73 - 131	9114381	11/25/09 19:10
Tetrachloroethene	50.0	52.7		ug/L	105%	77 - 131	9114381	11/25/09 19:10
Toluene	50.0	52.4		ug/L	105%	78 - 125	9114381	11/25/09 19:10
1,2,3-Trichlorobenzene	50.0	55.4		ug/L	111%	71 - 138	9114381	11/25/09 19:10
1,2,4-Trichlorobenzene	50.0	60.8		ug/L	122%	74 - 136	9114381	11/25/09 19:10
1,1,2-Trichloroethane	50.0	52.3		ug/L	105%	80 - 123	9114381	11/25/09 19:10
1,1,1-Trichloroethane	50.0	56.9		ug/L	114%	75 - 137	9114381	11/25/09 19:10
Trichloroethene	50.0	57.5		ug/L	115%	74 - 139	9114381	11/25/09 19:10
Trichlorofluoromethane	50.0	61.0		ug/L	122%	60 - 133	9114381	11/25/09 19:10
1,2,3-Trichloropropane	50.0	47.0		ug/L	94%	64 - 127	9114381	11/25/09 19:10
1,3,5-Trimethylbenzene	50.0	54.9		ug/L	110%	75 - 134	9114381	11/25/09 19:10
1,2,4-Trimethylbenzene	50.0	55.0		ug/L	110%	77 - 134	9114381	11/25/09 19:10
Vinyl chloride	50.0	65.8	L1	ug/L	132%	60 - 122	9114381	11/25/09 19:10
Xylenes, total	150	158		ug/L	105%	78 - 134	9114381	11/25/09 19:10
Diisopropyl Ether	50.0	52.2		ug/L	104%	63 - 136	9114381	11/25/09 19:10
Surrogate: 1,2-Dichloroethane-d4	25.0	24.2			97%	63 - 140	9114381	11/25/09 19:10
Surrogate: Dibromofluoromethane	25.0	25.7			103%	73 - 131	9114381	11/25/09 19:10
Surrogate: Toluene-d8	25.0	23.3			93%	80 - 120	9114381	11/25/09 19:10
Surrogate: 4-Bromofluorobenzene	25.0	24.5			98%	79 - 125	9114381	11/25/09 19:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9113909-BSD1												
Acetone		264		ug/L	250	106%	56 - 150	14	31	9113909		11/24/09 20:33
Benzene		51.1		ug/L	50.0	102%	80 - 121	4	12	9113909		11/24/09 20:33
Bromobenzene		50.6		ug/L	50.0	101%	72 - 130	4	23	9113909		11/24/09 20:33
Bromochloromethane		55.8		ug/L	50.0	112%	73 - 137	4	32	9113909		11/24/09 20:33
Bromodichloromethane		53.6		ug/L	50.0	107%	75 - 131	4	13	9113909		11/24/09 20:33
Bromoform		44.8		ug/L	50.0	90%	65 - 140	3	18	9113909		11/24/09 20:33
Bromomethane		50.8		ug/L	50.0	102%	50 - 150	4	50	9113909		11/24/09 20:33
2-Butanone		288		ug/L	250	115%	70 - 144	4	37	9113909		11/24/09 20:33
sec-Butylbenzene		52.6		ug/L	50.0	105%	72 - 140	5	21	9113909		11/24/09 20:33
n-Butylbenzene		54.8		ug/L	50.0	110%	68 - 140	6	11	9113909		11/24/09 20:33
tert-Butylbenzene		51.4		ug/L	50.0	103%	76 - 135	6	20	9113909		11/24/09 20:33
Carbon disulfide		49.6		ug/L	50.0	99%	74 - 137	5	28	9113909		11/24/09 20:33
Carbon Tetrachloride		48.7		ug/L	50.0	97%	71 - 137	6	26	9113909		11/24/09 20:33
Chlorobenzene		51.2		ug/L	50.0	102%	80 - 121	3	11	9113909		11/24/09 20:33
Chlorodibromomethane		50.0		ug/L	50.0	100%	68 - 137	3	16	9113909		11/24/09 20:33
Chloroethane		45.2		ug/L	50.0	90%	50 - 146	7	35	9113909		11/24/09 20:33
Chloroform		60.4		ug/L	50.0	121%	73 - 131	4	32	9113909		11/24/09 20:33
Chloromethane		27.4		ug/L	50.0	55%	30 - 132	8	34	9113909		11/24/09 20:33
2-Chlorotoluene		49.7		ug/L	50.0	99%	74 - 135	5	22	9113909		11/24/09 20:33
4-Chlorotoluene		49.6		ug/L	50.0	99%	74 - 132	5	22	9113909		11/24/09 20:33
1,2-Dibromo-3-chloropropane		45.1		ug/L	50.0	90%	56 - 145	1	21	9113909		11/24/09 20:33
1,2-Dibromoethane (EDB)		49.1		ug/L	50.0	98%	80 - 135	4	10	9113909		11/24/09 20:33
Dibromomethane		55.0		ug/L	50.0	110%	78 - 133	4	11	9113909		11/24/09 20:33
1,4-Dichlorobenzene		50.2		ug/L	50.0	100%	80 - 120	5	10	9113909		11/24/09 20:33
1,3-Dichlorobenzene		51.1		ug/L	50.0	102%	80 - 128	5	18	9113909		11/24/09 20:33
1,2-Dichlorobenzene		53.4		ug/L	50.0	107%	80 - 125	5	11	9113909		11/24/09 20:33
Dichlorodifluoromethane		51.3		ug/L	50.0	103%	30 - 132	8	32	9113909		11/24/09 20:33
1,1-Dichloroethane		53.0		ug/L	50.0	106%	75 - 125	5	34	9113909		11/24/09 20:33
1,2-Dichloroethane		53.9		ug/L	50.0	108%	70 - 134	3	25	9113909		11/24/09 20:33
cis-1,2-Dichloroethene		51.4		ug/L	50.0	103%	71 - 132	4	32	9113909		11/24/09 20:33
1,1-Dichloroethene		57.2		ug/L	50.0	114%	73 - 125	4	31	9113909		11/24/09 20:33
trans-1,2-Dichloroethene		47.4		ug/L	50.0	95%	77 - 125	9	32	9113909		11/24/09 20:33
1,3-Dichloropropane		47.9		ug/L	50.0	96%	76 - 125	5	20	9113909		11/24/09 20:33
1,2-Dichloropropane		51.3		ug/L	50.0	103%	72 - 120	5	11	9113909		11/24/09 20:33
2,2-Dichloropropane		56.6		ug/L	50.0	113%	50 - 150	4	11	9113909		11/24/09 20:33
cis-1,3-Dichloropropene		41.9		ug/L	50.0	84%	70 - 140	5	35	9113909		11/24/09 20:33
trans-1,3-Dichloropropene		45.5		ug/L	50.0	91%	62 - 139	2	26	9113909		11/24/09 20:33
1,1-Dichloropropene		51.8		ug/L	50.0	104%	78 - 126	4	18	9113909		11/24/09 20:33
Ethylbenzene		48.8		ug/L	50.0	98%	78 - 133	5	12	9113909		11/24/09 20:33
Hexachlorobutadiene		58.4		ug/L	50.0	117%	70 - 150	5	21	9113909		11/24/09 20:33

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSK1951 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9113909-BSD1												
2-Hexanone		264		ug/L	250	106%	60 - 150	2	20	9113909		11/24/09 20:33
Isopropylbenzene		50.0		ug/L	50.0	100%	69 - 120	6	15	9113909		11/24/09 20:33
p-Isopropyltoluene		50.7		ug/L	50.0	101%	72 - 134	6	18	9113909		11/24/09 20:33
Methyl tert-Butyl Ether		46.5		ug/L	50.0	93%	76 - 120	5	32	9113909		11/24/09 20:33
Methylene Chloride		50.8		ug/L	50.0	102%	80 - 133	5	36	9113909		11/24/09 20:33
4-Methyl-2-pentanone		247		ug/L	250	99%	62 - 146	0.7	35	9113909		11/24/09 20:33
Naphthalene		49.9		ug/L	50.0	100%	71 - 139	3	30	9113909		11/24/09 20:33
n-Propylbenzene		51.0		ug/L	50.0	102%	70 - 143	5	23	9113909		11/24/09 20:33
Styrene		50.9		ug/L	50.0	102%	80 - 136	5	29	9113909		11/24/09 20:33
1,1,1,2-Tetrachloroethane		47.7		ug/L	50.0	95%	80 - 130	4	11	9113909		11/24/09 20:33
1,1,2,2-Tetrachloroethane		50.0		ug/L	50.0	100%	73 - 131	2	28	9113909		11/24/09 20:33
Tetrachloroethene		48.5		ug/L	50.0	97%	77 - 131	6	16	9113909		11/24/09 20:33
Toluene		47.9		ug/L	50.0	96%	78 - 125	5	35	9113909		11/24/09 20:33
1,2,3-Trichlorobenzene		52.7		ug/L	50.0	105%	71 - 138	3	28	9113909		11/24/09 20:33
1,2,4-Trichlorobenzene		57.6		ug/L	50.0	115%	74 - 136	4	23	9113909		11/24/09 20:33
1,1,2-Trichloroethane		49.7		ug/L	50.0	99%	80 - 123	3	21	9113909		11/24/09 20:33
1,1,1-Trichloroethane		51.9		ug/L	50.0	104%	75 - 137	5	29	9113909		11/24/09 20:33
Trichloroethene		52.7		ug/L	50.0	105%	74 - 139	5	11	9113909		11/24/09 20:33
Trichlorofluoromethane		46.1		ug/L	50.0	92%	60 - 133	6	33	9113909		11/24/09 20:33
1,2,3-Trichloropropane		45.8		ug/L	50.0	92%	64 - 127	3	25	9113909		11/24/09 20:33
1,3,5-Trimethylbenzene		50.2		ug/L	50.0	100%	75 - 134	5	21	9113909		11/24/09 20:33
1,2,4-Trimethylbenzene		51.2		ug/L	50.0	102%	77 - 134	5	20	9113909		11/24/09 20:33
Vinyl chloride		52.2		ug/L	50.0	104%	60 - 122	7	32	9113909		11/24/09 20:33
Xylenes, total		146		ug/L	150	97%	78 - 134	5	18	9113909		11/24/09 20:33
Surrogate: 1,2-Dichloroethane-d4		24.2		ug/L	25.0	97%	63 - 140			9113909		11/24/09 20:33
Surrogate: Dibromofluoromethane		25.4		ug/L	25.0	102%	73 - 131			9113909		11/24/09 20:33
Surrogate: Toluene-d8		23.2		ug/L	25.0	93%	80 - 120			9113909		11/24/09 20:33
Surrogate: 4-Bromofluorobenzene		24.5		ug/L	25.0	98%	79 - 125			9113909		11/24/09 20:33
9114381-BSD1												
Acetone		271		ug/L	250	108%	56 - 150	0.7	31	9114381		11/25/09 19:35
Benzene		53.4		ug/L	50.0	107%	80 - 121	3	12	9114381		11/25/09 19:35
Bromobenzene		52.2		ug/L	50.0	104%	72 - 130	2	23	9114381		11/25/09 19:35
Bromochloromethane		58.4		ug/L	50.0	117%	73 - 137	4	32	9114381		11/25/09 19:35
Bromodichloromethane		56.6		ug/L	50.0	113%	75 - 131	2	13	9114381		11/25/09 19:35
Bromoform		47.0		ug/L	50.0	94%	65 - 140	0.8	18	9114381		11/25/09 19:35
Bromomethane		64.5		ug/L	50.0	129%	50 - 150	4	50	9114381		11/25/09 19:35
2-Butanone		293		ug/L	250	117%	70 - 144	3	37	9114381		11/25/09 19:35
sec-Butylbenzene		56.2		ug/L	50.0	112%	72 - 140	2	21	9114381		11/25/09 19:35
n-Butylbenzene		59.1		ug/L	50.0	118%	68 - 140	2	11	9114381		11/25/09 19:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9114381-BSD1												
tert-Butylbenzene		53.9		ug/L	50.0	108%	76 - 135	3	20	9114381		11/25/09 19:35
Carbon disulfide		52.5		ug/L	50.0	105%	74 - 137	3	28	9114381		11/25/09 19:35
Carbon Tetrachloride		54.2		ug/L	50.0	108%	71 - 137	5	26	9114381		11/25/09 19:35
Chlorobenzene		53.5		ug/L	50.0	107%	80 - 121	3	11	9114381		11/25/09 19:35
Chlorodibromomethane		52.0		ug/L	50.0	104%	68 - 137	2	16	9114381		11/25/09 19:35
Chloroethane		50.1		ug/L	50.0	100%	50 - 146	4	35	9114381		11/25/09 19:35
Chloroform		63.9		ug/L	50.0	128%	73 - 131	4	32	9114381		11/25/09 19:35
Chloromethane		37.6		ug/L	50.0	75%	30 - 132	4	34	9114381		11/25/09 19:35
2-Chlorotoluene		53.0		ug/L	50.0	106%	74 - 135	2	22	9114381		11/25/09 19:35
4-Chlorotoluene		51.8		ug/L	50.0	104%	74 - 132	3	22	9114381		11/25/09 19:35
1,2-Dibromo-3-chloropropane		45.7		ug/L	50.0	91%	56 - 145	0.4	21	9114381		11/25/09 19:35
1,2-Dibromoethane (EDB)		50.8		ug/L	50.0	102%	80 - 135	2	10	9114381		11/25/09 19:35
Dibromomethane		56.6		ug/L	50.0	113%	78 - 133	3	11	9114381		11/25/09 19:35
1,4-Dichlorobenzene		52.5		ug/L	50.0	105%	80 - 120	2	10	9114381		11/25/09 19:35
1,3-Dichlorobenzene		53.9		ug/L	50.0	108%	80 - 128	0.8	18	9114381		11/25/09 19:35
1,2-Dichlorobenzene		57.0		ug/L	50.0	114%	80 - 125	0.8	11	9114381		11/25/09 19:35
Dichlorodifluoromethane		77.2	L1	ug/L	50.0	154%	30 - 132	2	32	9114381		11/25/09 19:35
1,1-Dichloroethane		55.9		ug/L	50.0	112%	75 - 125	3	34	9114381		11/25/09 19:35
1,2-Dichloroethane		55.8		ug/L	50.0	112%	70 - 134	2	25	9114381		11/25/09 19:35
cis-1,2-Dichloroethene		54.5		ug/L	50.0	109%	71 - 132	3	32	9114381		11/25/09 19:35
1,1-Dichloroethene		58.2		ug/L	50.0	116%	73 - 125	0.9	31	9114381		11/25/09 19:35
trans-1,2-Dichloroethene		52.1		ug/L	50.0	104%	77 - 125	5	32	9114381		11/25/09 19:35
1,3-Dichloropropane		50.0		ug/L	50.0	100%	76 - 125	2	20	9114381		11/25/09 19:35
1,2-Dichloropropane		53.7		ug/L	50.0	107%	72 - 120	2	11	9114381		11/25/09 19:35
2,2-Dichloropropane		60.2		ug/L	50.0	120%	50 - 150	4	11	9114381		11/25/09 19:35
cis-1,3-Dichloropropene		42.7		ug/L	50.0	85%	70 - 140	4	35	9114381		11/25/09 19:35
trans-1,3-Dichloropropene		47.8		ug/L	50.0	96%	62 - 139	1	26	9114381		11/25/09 19:35
1,1-Dichloropropene		54.8		ug/L	50.0	110%	78 - 126	3	18	9114381		11/25/09 19:35
Ethylbenzene		51.3		ug/L	50.0	103%	78 - 133	3	12	9114381		11/25/09 19:35
Hexachlorobutadiene		63.0		ug/L	50.0	126%	70 - 150	1	21	9114381		11/25/09 19:35
2-Hexanone		266		ug/L	250	107%	60 - 150	1	20	9114381		11/25/09 19:35
Isopropylbenzene		52.9		ug/L	50.0	106%	69 - 120	3	15	9114381		11/25/09 19:35
p-Isopropyltoluene		54.0		ug/L	50.0	108%	72 - 134	3	18	9114381		11/25/09 19:35
Methyl tert-Butyl Ether		49.5		ug/L	50.0	99%	76 - 120	3	32	9114381		11/25/09 19:35
Methylene Chloride		54.0		ug/L	50.0	108%	80 - 133	3	36	9114381		11/25/09 19:35
4-Methyl-2-pentanone		248		ug/L	250	99%	62 - 146	2	35	9114381		11/25/09 19:35
Naphthalene		52.6		ug/L	50.0	105%	71 - 139	0.6	30	9114381		11/25/09 19:35
n-Propylbenzene		54.3		ug/L	50.0	109%	70 - 143	1	23	9114381		11/25/09 19:35
Styrene		52.9		ug/L	50.0	106%	80 - 136	3	29	9114381		11/25/09 19:35
1,1,1,2-Tetrachloroethane		52.0		ug/L	50.0	104%	80 - 130	2	11	9114381		11/25/09 19:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSK1951 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9114381-BSD1												
1,1,2,2-Tetrachloroethane		52.4		ug/L	50.0	105%	73 - 131	1	28	9114381		11/25/09 19:35
Tetrachloroethene		50.8		ug/L	50.0	102%	77 - 131	4	16	9114381		11/25/09 19:35
Toluene		50.5		ug/L	50.0	101%	78 - 125	4	35	9114381		11/25/09 19:35
1,2,3-Trichlorobenzene		55.3		ug/L	50.0	111%	71 - 138	0.3	28	9114381		11/25/09 19:35
1,2,4-Trichlorobenzene		60.4		ug/L	50.0	121%	74 - 136	0.7	23	9114381		11/25/09 19:35
1,1,2-Trichloroethane		50.8		ug/L	50.0	102%	80 - 123	3	21	9114381		11/25/09 19:35
1,1,1-Trichloroethane		54.9		ug/L	50.0	110%	75 - 137	4	29	9114381		11/25/09 19:35
Trichloroethene		55.6		ug/L	50.0	111%	74 - 139	3	11	9114381		11/25/09 19:35
Trichlorofluoromethane		58.9		ug/L	50.0	118%	60 - 133	4	33	9114381		11/25/09 19:35
1,2,3-Trichloropropane		46.5		ug/L	50.0	93%	64 - 127	0.9	25	9114381		11/25/09 19:35
1,3,5-Trimethylbenzene		53.4		ug/L	50.0	107%	75 - 134	3	21	9114381		11/25/09 19:35
1,2,4-Trimethylbenzene		53.8		ug/L	50.0	108%	77 - 134	2	20	9114381		11/25/09 19:35
Vinyl chloride		64.1	L1	ug/L	50.0	128%	60 - 122	3	32	9114381		11/25/09 19:35
Xylenes, total		153		ug/L	150	102%	78 - 134	3	18	9114381		11/25/09 19:35
Diisopropyl Ether		50.9		ug/L	50.0	102%	63 - 136	2	32	9114381		11/25/09 19:35
Surrogate: 1,2-Dichloroethane-d4		24.4		ug/L	25.0	97%	63 - 140			9114381		11/25/09 19:35
Surrogate: Dibromofluoromethane		25.3		ug/L	25.0	101%	73 - 131			9114381		11/25/09 19:35
Surrogate: Toluene-d8		23.2		ug/L	25.0	93%	80 - 120			9114381		11/25/09 19:35
Surrogate: 4-Bromofluorobenzene		24.8		ug/L	25.0	99%	79 - 125			9114381		11/25/09 19:35

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THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9113909-MS1										
Acetone	ND	235		ug/L	250	94%	56 - 150	9113909	NSK1916-03	11/25/09 06:01
Benzene	9.43	58.9		ug/L	50.0	99%	65 - 151	9113909	NSK1916-03	11/25/09 06:01
Bromobenzene	ND	50.9		ug/L	50.0	102%	69 - 142	9113909	NSK1916-03	11/25/09 06:01
Bromochloromethane	ND	58.8		ug/L	50.0	118%	64 - 154	9113909	NSK1916-03	11/25/09 06:01
Bromodichloromethane	ND	54.6		ug/L	50.0	109%	75 - 138	9113909	NSK1916-03	11/25/09 06:01
Bromoform	ND	43.0		ug/L	50.0	86%	55 - 153	9113909	NSK1916-03	11/25/09 06:01
Bromomethane	ND	68.4		ug/L	50.0	137%	13 - 176	9113909	NSK1916-03	11/25/09 06:01
2-Butanone	ND	264		ug/L	250	106%	45 - 164	9113909	NSK1916-03	11/25/09 06:01
sec-Butylbenzene	ND	57.4		ug/L	50.0	115%	68 - 159	9113909	NSK1916-03	11/25/09 06:01
n-Butylbenzene	ND	59.2		ug/L	50.0	118%	67 - 151	9113909	NSK1916-03	11/25/09 06:01
tert-Butylbenzene	ND	55.5		ug/L	50.0	111%	73 - 153	9113909	NSK1916-03	11/25/09 06:01
Carbon disulfide	ND	51.0		ug/L	50.0	102%	33 - 187	9113909	NSK1916-03	11/25/09 06:01
Carbon Tetrachloride	ND	54.4		ug/L	50.0	109%	64 - 157	9113909	NSK1916-03	11/25/09 06:01
Chlorobenzene	ND	54.9		ug/L	50.0	110%	78 - 136	9113909	NSK1916-03	11/25/09 06:01
Chlorodibromomethane	ND	49.1		ug/L	50.0	98%	64 - 145	9113909	NSK1916-03	11/25/09 06:01
Chloroethane	ND	49.2		ug/L	50.0	98%	48 - 159	9113909	NSK1916-03	11/25/09 06:01
Chloroform	ND	61.3		ug/L	50.0	123%	72 - 145	9113909	NSK1916-03	11/25/09 06:01
Chloromethane	ND	26.5		ug/L	50.0	53%	10 - 194	9113909	NSK1916-03	11/25/09 06:01
2-Chlorotoluene	ND	52.5		ug/L	50.0	105%	66 - 155	9113909	NSK1916-03	11/25/09 06:01
4-Chlorotoluene	ND	51.3		ug/L	50.0	103%	69 - 149	9113909	NSK1916-03	11/25/09 06:01
1,2-Dibromo-3-chloropropane	ND	41.5		ug/L	50.0	83%	49 - 162	9113909	NSK1916-03	11/25/09 06:01
1,2-Dibromoethane (EDB)	ND	48.0		ug/L	50.0	96%	70 - 152	9113909	NSK1916-03	11/25/09 06:01
Dibromomethane	ND	53.9		ug/L	50.0	108%	75 - 141	9113909	NSK1916-03	11/25/09 06:01
1,4-Dichlorobenzene	ND	54.3		ug/L	50.0	109%	75 - 135	9113909	NSK1916-03	11/25/09 06:01
1,3-Dichlorobenzene	ND	53.6		ug/L	50.0	107%	72 - 146	9113909	NSK1916-03	11/25/09 06:01
1,2-Dichlorobenzene	ND	65.8		ug/L	50.0	132%	80 - 136	9113909	NSK1916-03	11/25/09 06:01
Dichlorodifluoromethane	ND	37.8		ug/L	50.0	76%	23 - 159	9113909	NSK1916-03	11/25/09 06:01
1,1-Dichloroethane	ND	54.6		ug/L	50.0	109%	64 - 154	9113909	NSK1916-03	11/25/09 06:01
1,2-Dichloroethane	ND	52.4		ug/L	50.0	105%	72 - 137	9113909	NSK1916-03	11/25/09 06:01
cis-1,2-Dichloroethene	ND	53.7		ug/L	50.0	107%	57 - 154	9113909	NSK1916-03	11/25/09 06:01
1,1-Dichloroethene	ND	58.8		ug/L	50.0	118%	34 - 151	9113909	NSK1916-03	11/25/09 06:01
trans-1,2-Dichloroethene	ND	51.5		ug/L	50.0	103%	57 - 157	9113909	NSK1916-03	11/25/09 06:01
1,3-Dichloropropane	ND	46.6		ug/L	50.0	93%	71 - 137	9113909	NSK1916-03	11/25/09 06:01
1,2-Dichloropropane	ND	52.5		ug/L	50.0	105%	71 - 139	9113909	NSK1916-03	11/25/09 06:01
2,2-Dichloropropane	ND	63.6		ug/L	50.0	127%	10 - 198	9113909	NSK1916-03	11/25/09 06:01
cis-1,3-Dichloropropene	ND	45.1		ug/L	50.0	90%	56 - 156	9113909	NSK1916-03	11/25/09 06:01

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9113909-MS1										
trans-1,3-Dichloropropene	ND	45.4		ug/L	50.0	91%	47 - 157	9113909	NSK1916-03	11/25/09 06:01
1,1-Dichloropropene	ND	56.0		ug/L	50.0	112%	70 - 155	9113909	NSK1916-03	11/25/09 06:01
Ethylbenzene	0.970	52.1		ug/L	50.0	102%	68 - 157	9113909	NSK1916-03	11/25/09 06:01
Hexachlorobutadiene	ND	65.8		ug/L	50.0	132%	47 - 173	9113909	NSK1916-03	11/25/09 06:01
2-Hexanone	ND	242		ug/L	250	97%	57 - 154	9113909	NSK1916-03	11/25/09 06:01
Isopropylbenzene	ND	54.0		ug/L	50.0	108%	69 - 139	9113909	NSK1916-03	11/25/09 06:01
p-Isopropyltoluene	ND	55.2		ug/L	50.0	110%	69 - 151	9113909	NSK1916-03	11/25/09 06:01
Methyl tert-Butyl Ether	ND	46.3		ug/L	50.0	93%	56 - 152	9113909	NSK1916-03	11/25/09 06:01
Methylene Chloride	ND	51.2		ug/L	50.0	102%	71 - 136	9113909	NSK1916-03	11/25/09 06:01
4-Methyl-2-pentanone	ND	228		ug/L	250	91%	62 - 159	9113909	NSK1916-03	11/25/09 06:01
Naphthalene	14.1	66.9		ug/L	50.0	106%	56 - 161	9113909	NSK1916-03	11/25/09 06:01
n-Propylbenzene	ND	54.6		ug/L	50.0	109%	61 - 167	9113909	NSK1916-03	11/25/09 06:01
Styrene	ND	52.7		ug/L	50.0	105%	69 - 150	9113909	NSK1916-03	11/25/09 06:01
1,1,1,2-Tetrachloroethane	ND	49.6		ug/L	50.0	99%	80 - 140	9113909	NSK1916-03	11/25/09 06:01
1,1,2,2-Tetrachloroethane	ND	47.0		ug/L	50.0	94%	76 - 141	9113909	NSK1916-03	11/25/09 06:01
Tetrachloroethene	ND	54.0		ug/L	50.0	108%	63 - 155	9113909	NSK1916-03	11/25/09 06:01
Toluene	ND	53.4		ug/L	50.0	107%	61 - 153	9113909	NSK1916-03	11/25/09 06:01
1,2,3-Trichlorobenzene	ND	51.3		ug/L	50.0	103%	57 - 155	9113909	NSK1916-03	11/25/09 06:01
1,2,4-Trichlorobenzene	ND	58.8		ug/L	50.0	118%	64 - 147	9113909	NSK1916-03	11/25/09 06:01
1,1,2-Trichloroethane	ND	48.4		ug/L	50.0	97%	74 - 138	9113909	NSK1916-03	11/25/09 06:01
1,1,1-Trichloroethane	ND	55.4		ug/L	50.0	111%	78 - 153	9113909	NSK1916-03	11/25/09 06:01
Trichloroethene	ND	57.4		ug/L	50.0	115%	74 - 139	9113909	NSK1916-03	11/25/09 06:01
Trichlorofluoromethane	ND	50.1		ug/L	50.0	100%	53 - 149	9113909	NSK1916-03	11/25/09 06:01
1,2,3-Trichloropropane	ND	43.0		ug/L	50.0	86%	49 - 148	9113909	NSK1916-03	11/25/09 06:01
1,3,5-Trimethylbenzene	ND	53.2		ug/L	50.0	106%	67 - 151	9113909	NSK1916-03	11/25/09 06:01
1,2,4-Trimethylbenzene	0.500	53.6		ug/L	50.0	106%	69 - 150	9113909	NSK1916-03	11/25/09 06:01
Vinyl chloride	ND	53.1		ug/L	50.0	106%	53 - 137	9113909	NSK1916-03	11/25/09 06:01
Xylenes, total	0.870	153		ug/L	150	102%	68 - 158	9113909	NSK1916-03	11/25/09 06:01
Surrogate: 1,2-Dichloroethane-d4		23.5		ug/L	25.0	94%	63 - 140	9113909	NSK1916-03	11/25/09 06:01
Surrogate: Dibromofluoromethane		25.2		ug/L	25.0	101%	73 - 131	9113909	NSK1916-03	11/25/09 06:01
Surrogate: Toluene-d8		23.2		ug/L	25.0	93%	80 - 120	9113909	NSK1916-03	11/25/09 06:01
Surrogate: 4-Bromofluorobenzene		24.5		ug/L	25.0	98%	79 - 125	9113909	NSK1916-03	11/25/09 06:01
9114381-MS1										
Acetone	ND	28200		ug/L	25000	113%	56 - 150	9114381	NSK1999-04RE3	11/26/09 03:05
Benzene	9650	14200		ug/L	5000	91%	65 - 151	9114381	NSK1999-04RE3	11/26/09 03:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9114381-MS1										
Bromobenzene	ND	5620		ug/L	5000	112%	69 - 142	9114381	NSK1999-04RE3	11/26/09 03:05
Bromochloromethane	ND	6370		ug/L	5000	127%	64 - 154	9114381	NSK1999-04RE3	11/26/09 03:05
Bromodichloromethane	152	6040		ug/L	5000	118%	75 - 138	9114381	NSK1999-04RE3	11/26/09 03:05
Bromoform	ND	4880		ug/L	5000	98%	55 - 153	9114381	NSK1999-04RE3	11/26/09 03:05
Bromomethane	ND	5770		ug/L	5000	115%	13 - 176	9114381	NSK1999-04RE3	11/26/09 03:05
2-Butanone	ND	31100		ug/L	25000	124%	45 - 164	9114381	NSK1999-04RE3	11/26/09 03:05
sec-Butylbenzene	1150	6230		ug/L	5000	102%	68 - 159	9114381	NSK1999-04RE3	11/26/09 03:05
n-Butylbenzene	41.0	6470		ug/L	5000	129%	67 - 151	9114381	NSK1999-04RE3	11/26/09 03:05
tert-Butylbenzene	188	6010		ug/L	5000	116%	73 - 153	9114381	NSK1999-04RE3	11/26/09 03:05
Carbon disulfide	ND	5920		ug/L	5000	118%	33 - 187	9114381	NSK1999-04RE3	11/26/09 03:05
Carbon Tetrachloride	ND	5570		ug/L	5000	111%	64 - 157	9114381	NSK1999-04RE3	11/26/09 03:05
Chlorobenzene	ND	5840		ug/L	5000	117%	78 - 136	9114381	NSK1999-04RE3	11/26/09 03:05
Chlorodibromomethane	ND	5460		ug/L	5000	109%	64 - 145	9114381	NSK1999-04RE3	11/26/09 03:05
Chloroethane	ND	5170		ug/L	5000	103%	48 - 159	9114381	NSK1999-04RE3	11/26/09 03:05
Chloroform	ND	7020		ug/L	5000	140%	72 - 145	9114381	NSK1999-04RE3	11/26/09 03:05
Chloromethane	73.0	3140		ug/L	5000	61%	10 - 194	9114381	NSK1999-04RE3	11/26/09 03:05
2-Chlorotoluene	174	5920		ug/L	5000	115%	66 - 155	9114381	NSK1999-04RE3	11/26/09 03:05
4-Chlorotoluene	ND	5660		ug/L	5000	113%	69 - 149	9114381	NSK1999-04RE3	11/26/09 03:05
1,2-Dibromo-3-chloropropane	ND	4660		ug/L	5000	93%	49 - 162	9114381	NSK1999-04RE3	11/26/09 03:05
1,2-Dibromoethane (EDB)	ND	5350		ug/L	5000	107%	70 - 152	9114381	NSK1999-04RE3	11/26/09 03:05
Dibromomethane	ND	6190		ug/L	5000	124%	75 - 141	9114381	NSK1999-04RE3	11/26/09 03:05
1,4-Dichlorobenzene	ND	5670		ug/L	5000	113%	75 - 135	9114381	NSK1999-04RE3	11/26/09 03:05
1,3-Dichlorobenzene	ND	5800		ug/L	5000	116%	72 - 146	9114381	NSK1999-04RE3	11/26/09 03:05
1,2-Dichlorobenzene	ND	5950		ug/L	5000	119%	80 - 136	9114381	NSK1999-04RE3	11/26/09 03:05
Dichlorodifluoromethane	ND	5290		ug/L	5000	106%	23 - 159	9114381	NSK1999-04RE3	11/26/09 03:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9114381-MS1										
1,1-Dichloroethane	ND	6260		ug/L	5000	125%	64 - 154	9114381	NSK1999-04RE3	11/26/09 03:05
1,2-Dichloroethane	295	5990		ug/L	5000	114%	72 - 137	9114381	NSK1999-04RE3	11/26/09 03:05
cis-1,2-Dichloroethene	ND	5980		ug/L	5000	120%	57 - 154	9114381	NSK1999-04RE3	11/26/09 03:05
1,1-Dichloroethene	ND	6510		ug/L	5000	130%	34 - 151	9114381	NSK1999-04RE3	11/26/09 03:05
trans-1,2-Dichloroethene	ND	5660		ug/L	5000	113%	57 - 157	9114381	NSK1999-04RE3	11/26/09 03:05
1,3-Dichloropropane	ND	5270		ug/L	5000	105%	71 - 137	9114381	NSK1999-04RE3	11/26/09 03:05
1,2-Dichloropropane	ND	5840		ug/L	5000	117%	71 - 139	9114381	NSK1999-04RE3	11/26/09 03:05
2,2-Dichloropropane	ND	6320		ug/L	5000	126%	10 - 198	9114381	NSK1999-04RE3	11/26/09 03:05
cis-1,3-Dichloropropene	ND	4370		ug/L	5000	87%	56 - 156	9114381	NSK1999-04RE3	11/26/09 03:05
trans-1,3-Dichloropropene	ND	4620		ug/L	5000	92%	47 - 157	9114381	NSK1999-04RE3	11/26/09 03:05
1,1-Dichloropropene	500	6120		ug/L	5000	112%	70 - 155	9114381	NSK1999-04RE3	11/26/09 03:05
Ethylbenzene	2050	7380		ug/L	5000	107%	68 - 157	9114381	NSK1999-04RE3	11/26/09 03:05
Hexachlorobutadiene	ND	6770		ug/L	5000	135%	47 - 173	9114381	NSK1999-04RE3	11/26/09 03:05
2-Hexanone	ND	28200		ug/L	25000	113%	57 - 154	9114381	NSK1999-04RE3	11/26/09 03:05
Isopropylbenzene	70.0	5950		ug/L	5000	118%	69 - 139	9114381	NSK1999-04RE3	11/26/09 03:05
p-Isopropyltoluene	ND	6000		ug/L	5000	120%	69 - 151	9114381	NSK1999-04RE3	11/26/09 03:05
Methyl tert-Butyl Ether	ND	5160		ug/L	5000	103%	56 - 152	9114381	NSK1999-04RE3	11/26/09 03:05
Methylene Chloride	ND	5940		ug/L	5000	119%	71 - 136	9114381	NSK1999-04RE3	11/26/09 03:05
4-Methyl-2-pentanone	342	26600		ug/L	25000	105%	62 - 159	9114381	NSK1999-04RE3	11/26/09 03:05
Naphthalene	900	5910		ug/L	5000	100%	56 - 161	9114381	NSK1999-04RE3	11/26/09 03:05
n-Propylbenzene	186	6090		ug/L	5000	118%	61 - 167	9114381	NSK1999-04RE3	11/26/09 03:05
Styrene	36.0	5790		ug/L	5000	115%	69 - 150	9114381	NSK1999-04RE3	11/26/09 03:05
1,1,1,2-Tetrachloroethane	ND	5540		ug/L	5000	111%	80 - 140	9114381	NSK1999-04RE3	11/26/09 03:05
1,1,2,2-Tetrachloroethane	ND	5430		ug/L	5000	109%	76 - 141	9114381	NSK1999-04RE3	11/26/09 03:05
Tetrachloroethene	ND	5740		ug/L	5000	115%	63 - 155	9114381	NSK1999-04RE3	11/26/09 03:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
9114381-MS1										
Toluene	1540	6960		ug/L	5000	108%	61 - 153	9114381	NSK1999-04RE3	11/26/09 03:05
1,2,3-Trichlorobenzene	ND	5690		ug/L	5000	114%	57 - 155	9114381	NSK1999-04RE3	11/26/09 03:05
1,2,4-Trichlorobenzene	ND	6340		ug/L	5000	127%	64 - 147	9114381	NSK1999-04RE3	11/26/09 03:05
1,1,2-Trichloroethane	ND	5410		ug/L	5000	108%	74 - 138	9114381	NSK1999-04RE3	11/26/09 03:05
1,1,1-Trichloroethane	ND	6190		ug/L	5000	124%	78 - 153	9114381	NSK1999-04RE3	11/26/09 03:05
Trichloroethene	ND	6100		ug/L	5000	122%	74 - 139	9114381	NSK1999-04RE3	11/26/09 03:05
Trichlorofluoromethane	ND	5460		ug/L	5000	109%	53 - 149	9114381	NSK1999-04RE3	11/26/09 03:05
1,2,3-Trichloropropane	ND	4830		ug/L	5000	97%	49 - 148	9114381	NSK1999-04RE3	11/26/09 03:05
1,3,5-Trimethylbenzene	399	6160		ug/L	5000	115%	67 - 151	9114381	NSK1999-04RE3	11/26/09 03:05
1,2,4-Trimethylbenzene	1430	7120		ug/L	5000	114%	69 - 150	9114381	NSK1999-04RE3	11/26/09 03:05
Vinyl chloride	ND	5950		ug/L	5000	119%	53 - 137	9114381	NSK1999-04RE3	11/26/09 03:05
Xylenes, total	5650	21500		ug/L	15000	105%	68 - 158	9114381	NSK1999-04RE3	11/26/09 03:05
Diisopropyl Ether	2850	7720		ug/L	5000	97%	59 - 145	9114381	NSK1999-04RE3	11/26/09 03:05
Surrogate: 1,2-Dichloroethane-d4		24.3		ug/L	25.0	97%	63 - 140	9114381	NSK1999-04RE3	11/26/09 03:05
Surrogate: Dibromofluoromethane		25.6		ug/L	25.0	102%	73 - 131	9114381	NSK1999-04RE3	11/26/09 03:05
Surrogate: Toluene-d8		23.3		ug/L	25.0	93%	80 - 120	9114381	NSK1999-04RE3	11/26/09 03:05
Surrogate: 4-Bromofluorobenzene		24.7		ug/L	25.0	99%	79 - 125	9114381	NSK1999-04RE3	11/26/09 03:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9113909-MSD1												
Acetone	ND	272		ug/L	250	109%	56 - 150	14	31	9113909	NSK1916-03	11/25/09 06:26
Benzene	9.43	70.5	R2	ug/L	50.0	122%	65 - 151	18	12	9113909	NSK1916-03	11/25/09 06:26
Bromobenzene	ND	56.7		ug/L	50.0	113%	69 - 142	11	23	9113909	NSK1916-03	11/25/09 06:26
Bromochloromethane	ND	63.7		ug/L	50.0	127%	64 - 154	8	32	9113909	NSK1916-03	11/25/09 06:26
Bromodichloromethane	ND	59.7		ug/L	50.0	119%	75 - 138	9	13	9113909	NSK1916-03	11/25/09 06:26
Bromoform	ND	49.0		ug/L	50.0	98%	55 - 153	13	18	9113909	NSK1916-03	11/25/09 06:26
Bromomethane	ND	66.6		ug/L	50.0	133%	13 - 176	3	50	9113909	NSK1916-03	11/25/09 06:26
2-Butanone	ND	301		ug/L	250	120%	45 - 164	13	37	9113909	NSK1916-03	11/25/09 06:26
sec-Butylbenzene	ND	63.5		ug/L	50.0	127%	68 - 159	10	21	9113909	NSK1916-03	11/25/09 06:26
n-Butylbenzene	ND	65.9		ug/L	50.0	132%	67 - 151	11	11	9113909	NSK1916-03	11/25/09 06:26
tert-Butylbenzene	ND	60.9		ug/L	50.0	122%	73 - 153	9	20	9113909	NSK1916-03	11/25/09 06:26
Carbon disulfide	ND	55.4		ug/L	50.0	111%	33 - 187	8	28	9113909	NSK1916-03	11/25/09 06:26
Carbon Tetrachloride	ND	59.2		ug/L	50.0	118%	64 - 157	9	26	9113909	NSK1916-03	11/25/09 06:26
Chlorobenzene	ND	58.9		ug/L	50.0	118%	78 - 136	7	11	9113909	NSK1916-03	11/25/09 06:26
Chlorodibromomethane	ND	55.0		ug/L	50.0	110%	64 - 145	11	16	9113909	NSK1916-03	11/25/09 06:26
Chloroethane	ND	50.7		ug/L	50.0	101%	48 - 159	3	35	9113909	NSK1916-03	11/25/09 06:26
Chloroform	ND	67.7		ug/L	50.0	135%	72 - 145	10	32	9113909	NSK1916-03	11/25/09 06:26
Chloromethane	ND	26.6		ug/L	50.0	53%	10 - 194	0.4	34	9113909	NSK1916-03	11/25/09 06:26
2-Chlorotoluene	ND	58.2		ug/L	50.0	116%	66 - 155	10	22	9113909	NSK1916-03	11/25/09 06:26
4-Chlorotoluene	ND	56.9		ug/L	50.0	114%	69 - 149	10	22	9113909	NSK1916-03	11/25/09 06:26
1,2-Dibromo-3-chloropropane	ND	47.7		ug/L	50.0	95%	49 - 162	14	21	9113909	NSK1916-03	11/25/09 06:26
1,2-Dibromoethane (EDB)	ND	54.4	R2	ug/L	50.0	109%	70 - 152	13	10	9113909	NSK1916-03	11/25/09 06:26
Dibromomethane	ND	60.1		ug/L	50.0	120%	75 - 141	11	11	9113909	NSK1916-03	11/25/09 06:26
1,4-Dichlorobenzene	ND	58.4		ug/L	50.0	117%	75 - 135	7	10	9113909	NSK1916-03	11/25/09 06:26
1,3-Dichlorobenzene	ND	59.8		ug/L	50.0	120%	72 - 146	11	18	9113909	NSK1916-03	11/25/09 06:26
1,2-Dichlorobenzene	ND	62.3		ug/L	50.0	125%	80 - 136	6	11	9113909	NSK1916-03	11/25/09 06:26
Dichlorodifluoromethane	ND	37.9		ug/L	50.0	76%	23 - 159	0.3	32	9113909	NSK1916-03	11/25/09 06:26
1,1-Dichloroethane	ND	60.4		ug/L	50.0	121%	64 - 154	10	34	9113909	NSK1916-03	11/25/09 06:26
1,2-Dichloroethane	ND	57.8		ug/L	50.0	116%	72 - 137	10	25	9113909	NSK1916-03	11/25/09 06:26
cis-1,2-Dichloroethene	ND	58.3		ug/L	50.0	117%	57 - 154	8	32	9113909	NSK1916-03	11/25/09 06:26
1,1-Dichloroethene	ND	63.3		ug/L	50.0	127%	34 - 151	7	31	9113909	NSK1916-03	11/25/09 06:26
trans-1,2-Dichloroethene	ND	56.8		ug/L	50.0	114%	57 - 157	10	32	9113909	NSK1916-03	11/25/09 06:26
1,3-Dichloropropane	ND	52.5		ug/L	50.0	105%	71 - 137	12	20	9113909	NSK1916-03	11/25/09 06:26
1,2-Dichloropropane	ND	57.4		ug/L	50.0	115%	71 - 139	9	11	9113909	NSK1916-03	11/25/09 06:26
2,2-Dichloropropane	ND	69.3		ug/L	50.0	139%	10 - 198	9	11	9113909	NSK1916-03	11/25/09 06:26
cis-1,3-Dichloropropene	ND	48.5		ug/L	50.0	97%	56 - 156	7	35	9113909	NSK1916-03	11/25/09 06:26
trans-1,3-Dichloropropene	ND	51.2		ug/L	50.0	102%	47 - 157	12	26	9113909	NSK1916-03	11/25/09 06:26
1,1-Dichloropropene	ND	60.9		ug/L	50.0	122%	70 - 155	8	18	9113909	NSK1916-03	11/25/09 06:26
Ethylbenzene	0.970	57.6		ug/L	50.0	113%	68 - 157	10	12	9113909	NSK1916-03	11/25/09 06:26
Hexachlorobutadiene	ND	73.5		ug/L	50.0	147%	47 - 173	11	21	9113909	NSK1916-03	11/25/09 06:26

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9113909-MSD1												
2-Hexanone	ND	278		ug/L	250	111%	57 - 154	14	20	9113909	NSK1916-03	11/25/09 06:26
Isopropylbenzene	ND	59.4		ug/L	50.0	119%	69 - 139	10	15	9113909	NSK1916-03	11/25/09 06:26
p-Isopropyltoluene	ND	60.9		ug/L	50.0	122%	69 - 151	10	18	9113909	NSK1916-03	11/25/09 06:26
Methyl tert-Butyl Ether	ND	52.6		ug/L	50.0	105%	56 - 152	13	32	9113909	NSK1916-03	11/25/09 06:26
Methylene Chloride	ND	56.7		ug/L	50.0	113%	71 - 136	10	36	9113909	NSK1916-03	11/25/09 06:26
4-Methyl-2-pentanone	ND	262		ug/L	250	105%	62 - 159	14	35	9113909	NSK1916-03	11/25/09 06:26
Naphthalene	14.1	81.8		ug/L	50.0	135%	56 - 161	20	30	9113909	NSK1916-03	11/25/09 06:26
n-Propylbenzene	ND	60.6		ug/L	50.0	121%	61 - 167	11	23	9113909	NSK1916-03	11/25/09 06:26
Styrene	ND	58.1		ug/L	50.0	116%	69 - 150	10	29	9113909	NSK1916-03	11/25/09 06:26
1,1,1,2-Tetrachloroethane	ND	55.3		ug/L	50.0	111%	80 - 140	11	11	9113909	NSK1916-03	11/25/09 06:26
1,1,2,2-Tetrachloroethane	ND	54.2		ug/L	50.0	108%	76 - 141	14	28	9113909	NSK1916-03	11/25/09 06:26
Tetrachloroethene	ND	59.2		ug/L	50.0	118%	63 - 155	9	16	9113909	NSK1916-03	11/25/09 06:26
Toluene	ND	56.2		ug/L	50.0	112%	61 - 153	5	35	9113909	NSK1916-03	11/25/09 06:26
1,2,3-Trichlorobenzene	ND	60.2		ug/L	50.0	120%	57 - 155	16	28	9113909	NSK1916-03	11/25/09 06:26
1,2,4-Trichlorobenzene	ND	67.2		ug/L	50.0	134%	64 - 147	13	23	9113909	NSK1916-03	11/25/09 06:26
1,1,2-Trichloroethane	ND	54.5		ug/L	50.0	109%	74 - 138	12	21	9113909	NSK1916-03	11/25/09 06:26
1,1,1-Trichloroethane	ND	61.1		ug/L	50.0	122%	78 - 153	10	29	9113909	NSK1916-03	11/25/09 06:26
Trichloroethene	ND	62.5		ug/L	50.0	125%	74 - 139	9	11	9113909	NSK1916-03	11/25/09 06:26
Trichlorofluoromethane	ND	52.3		ug/L	50.0	105%	53 - 149	4	33	9113909	NSK1916-03	11/25/09 06:26
1,2,3-Trichloropropane	ND	49.2		ug/L	50.0	98%	49 - 148	14	25	9113909	NSK1916-03	11/25/09 06:26
1,3,5-Trimethylbenzene	ND	59.2		ug/L	50.0	118%	67 - 151	11	21	9113909	NSK1916-03	11/25/09 06:26
1,2,4-Trimethylbenzene	0.500	59.4		ug/L	50.0	118%	69 - 150	10	20	9113909	NSK1916-03	11/25/09 06:26
Vinyl chloride	ND	54.0		ug/L	50.0	108%	53 - 137	2	32	9113909	NSK1916-03	11/25/09 06:26
Xylenes, total	0.870	168		ug/L	150	111%	68 - 158	9	18	9113909	NSK1916-03	11/25/09 06:26
Surrogate: 1,2-Dichloroethane-d4		23.3		ug/L	25.0	93%	63 - 140			9113909	NSK1916-03	11/25/09 06:26
Surrogate: Dibromofluoromethane		25.2		ug/L	25.0	101%	73 - 131			9113909	NSK1916-03	11/25/09 06:26
Surrogate: Toluene-d8		23.3		ug/L	25.0	93%	80 - 120			9113909	NSK1916-03	11/25/09 06:26
Surrogate: 4-Bromofluorobenzene		24.6		ug/L	25.0	98%	79 - 125			9113909	NSK1916-03	11/25/09 06:26
9114381-MSD1												
Acetone	ND	26400		ug/L	25000	105%	56 - 150	7	31	9114381	NSK1999-04RE3	11/26/09 03:30
Benzene	9650	13900		ug/L	5000	86%	65 - 151	2	12	9114381	NSK1999-04RE3	11/26/09 03:30
Bromobenzene	ND	5360		ug/L	5000	107%	69 - 142	5	23	9114381	NSK1999-04RE3	11/26/09 03:30
Bromochloromethane	ND	6060		ug/L	5000	121%	64 - 154	5	32	9114381	NSK1999-04RE3	11/26/09 03:30
Bromodichloromethane	152	5790		ug/L	5000	113%	75 - 138	4	13	9114381	NSK1999-04RE3	11/26/09 03:30
Bromoform	ND	4560		ug/L	5000	91%	55 - 153	7	18	9114381	NSK1999-04RE3	11/26/09 03:30
Bromomethane	ND	6060		ug/L	5000	121%	13 - 176	5	50	9114381	NSK1999-04RE3	11/26/09 03:30

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9114381-MSD1												
2-Butanone	ND	28800		ug/L	25000	115%	45 - 164	8	37	9114381	NSK1999-04RE3	11/26/09 03:30
sec-Butylbenzene	1150	5970		ug/L	5000	96%	68 - 159	4	21	9114381	NSK1999-04RE3	11/26/09 03:30
n-Butylbenzene	41.0	6180		ug/L	5000	123%	67 - 151	5	11	9114381	NSK1999-04RE3	11/26/09 03:30
tert-Butylbenzene	188	5760		ug/L	5000	111%	73 - 153	4	20	9114381	NSK1999-04RE3	11/26/09 03:30
Carbon disulfide	ND	5670		ug/L	5000	113%	33 - 187	4	28	9114381	NSK1999-04RE3	11/26/09 03:30
Carbon Tetrachloride	ND	5540		ug/L	5000	111%	64 - 157	0.7	26	9114381	NSK1999-04RE3	11/26/09 03:30
Chlorobenzene	ND	5600		ug/L	5000	112%	78 - 136	4	11	9114381	NSK1999-04RE3	11/26/09 03:30
Chlorodibromomethane	ND	5200		ug/L	5000	104%	64 - 145	5	16	9114381	NSK1999-04RE3	11/26/09 03:30
Chloroethane	ND	4860		ug/L	5000	97%	48 - 159	6	35	9114381	NSK1999-04RE3	11/26/09 03:30
Chloroform	ND	6600		ug/L	5000	132%	72 - 145	6	32	9114381	NSK1999-04RE3	11/26/09 03:30
Chloromethane	73.0	2960		ug/L	5000	58%	10 - 194	6	34	9114381	NSK1999-04RE3	11/26/09 03:30
2-Chlorotoluene	174	5660		ug/L	5000	110%	66 - 155	4	22	9114381	NSK1999-04RE3	11/26/09 03:30
4-Chlorotoluene	ND	5420		ug/L	5000	108%	69 - 149	4	22	9114381	NSK1999-04RE3	11/26/09 03:30
1,2-Dibromo-3-chloropropane	ND	4470		ug/L	5000	89%	49 - 162	4	21	9114381	NSK1999-04RE3	11/26/09 03:30
1,2-Dibromoethane (EDB)	ND	5040		ug/L	5000	101%	70 - 152	6	10	9114381	NSK1999-04RE3	11/26/09 03:30
Dibromomethane	ND	5780		ug/L	5000	116%	75 - 141	7	11	9114381	NSK1999-04RE3	11/26/09 03:30
1,4-Dichlorobenzene	ND	5390		ug/L	5000	108%	75 - 135	5	10	9114381	NSK1999-04RE3	11/26/09 03:30
1,3-Dichlorobenzene	ND	5560		ug/L	5000	111%	72 - 146	4	18	9114381	NSK1999-04RE3	11/26/09 03:30
1,2-Dichlorobenzene	ND	5660		ug/L	5000	113%	80 - 136	5	11	9114381	NSK1999-04RE3	11/26/09 03:30
Dichlorodifluoromethane	ND	4970		ug/L	5000	99%	23 - 159	6	32	9114381	NSK1999-04RE3	11/26/09 03:30
1,1-Dichloroethane	ND	5900		ug/L	5000	118%	64 - 154	6	34	9114381	NSK1999-04RE3	11/26/09 03:30
1,2-Dichloroethane	295	5700		ug/L	5000	108%	72 - 137	5	25	9114381	NSK1999-04RE3	11/26/09 03:30
cis-1,2-Dichloroethene	ND	5670		ug/L	5000	113%	57 - 154	5	32	9114381	NSK1999-04RE3	11/26/09 03:30
1,1-Dichloroethene	ND	6250		ug/L	5000	125%	34 - 151	4	31	9114381	NSK1999-04RE3	11/26/09 03:30
trans-1,2-Dichloroethene	ND	5600		ug/L	5000	112%	57 - 157	1	32	9114381	NSK1999-04RE3	11/26/09 03:30
1,3-Dichloropropane	ND	5010		ug/L	5000	100%	71 - 137	5	20	9114381	NSK1999-04RE3	11/26/09 03:30

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order:	NSK1951
		Project Name:	Elmco
		Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9114381-MSD1												
1,2-Dichloropropane	ND	5590		ug/L	5000	112%	71 - 139	4	11	9114381	NSK1999-04RE3	11/26/09 03:30
2,2-Dichloropropane	ND	6050		ug/L	5000	121%	10 - 198	4	11	9114381	NSK1999-04RE3	11/26/09 03:30
cis-1,3-Dichloropropene	ND	4240		ug/L	5000	85%	56 - 156	3	35	9114381	NSK1999-04RE3	11/26/09 03:30
trans-1,3-Dichloropropene	ND	4500		ug/L	5000	90%	47 - 157	3	26	9114381	NSK1999-04RE3	11/26/09 03:30
1,1-Dichloropropene	500	5860		ug/L	5000	107%	70 - 155	4	18	9114381	NSK1999-04RE3	11/26/09 03:30
Ethylbenzene	2050	7140		ug/L	5000	102%	68 - 157	3	12	9114381	NSK1999-04RE3	11/26/09 03:30
Hexachlorobutadiene	ND	6640		ug/L	5000	133%	47 - 173	2	21	9114381	NSK1999-04RE3	11/26/09 03:30
2-Hexanone	ND	26400		ug/L	25000	106%	57 - 154	7	20	9114381	NSK1999-04RE3	11/26/09 03:30
Isopropylbenzene	70.0	5710		ug/L	5000	113%	69 - 139	4	15	9114381	NSK1999-04RE3	11/26/09 03:30
p-Isopropyltoluene	ND	5730		ug/L	5000	115%	69 - 151	5	18	9114381	NSK1999-04RE3	11/26/09 03:30
Methyl tert-Butyl Ether	ND	4970		ug/L	5000	99%	56 - 152	4	32	9114381	NSK1999-04RE3	11/26/09 03:30
Methylene Chloride	ND	5610		ug/L	5000	112%	71 - 136	6	36	9114381	NSK1999-04RE3	11/26/09 03:30
4-Methyl-2-pentanone	342	24600		ug/L	25000	97%	62 - 159	8	35	9114381	NSK1999-04RE3	11/26/09 03:30
Naphthalene	900	5720		ug/L	5000	96%	56 - 161	3	30	9114381	NSK1999-04RE3	11/26/09 03:30
n-Propylbenzene	186	5870		ug/L	5000	114%	61 - 167	4	23	9114381	NSK1999-04RE3	11/26/09 03:30
Styrene	36.0	5510		ug/L	5000	110%	69 - 150	5	29	9114381	NSK1999-04RE3	11/26/09 03:30
1,1,1,2-Tetrachloroethane	ND	5270		ug/L	5000	105%	80 - 140	5	11	9114381	NSK1999-04RE3	11/26/09 03:30
1,1,2,2-Tetrachloroethane	ND	5090		ug/L	5000	102%	76 - 141	6	28	9114381	NSK1999-04RE3	11/26/09 03:30
Tetrachloroethene	ND	5500		ug/L	5000	110%	63 - 155	4	16	9114381	NSK1999-04RE3	11/26/09 03:30
Toluene	1540	6760		ug/L	5000	104%	61 - 153	3	35	9114381	NSK1999-04RE3	11/26/09 03:30
1,2,3-Trichlorobenzene	ND	5500		ug/L	5000	110%	57 - 155	3	28	9114381	NSK1999-04RE3	11/26/09 03:30
1,2,4-Trichlorobenzene	ND	6070		ug/L	5000	121%	64 - 147	4	23	9114381	NSK1999-04RE3	11/26/09 03:30
1,1,2-Trichloroethane	ND	5150		ug/L	5000	103%	74 - 138	5	21	9114381	NSK1999-04RE3	11/26/09 03:30
1,1,1-Trichloroethane	ND	5910		ug/L	5000	118%	78 - 153	5	29	9114381	NSK1999-04RE3	11/26/09 03:30
Trichloroethene	ND	5900		ug/L	5000	118%	74 - 139	3	11	9114381	NSK1999-04RE3	11/26/09 03:30
Trichlorofluoromethane	ND	5230		ug/L	5000	105%	53 - 149	4	33	9114381	NSK1999-04RE3	11/26/09 03:30

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921) 207 Donelson Pike, Suite 200 Nashville, TN 37214	Work Order: Project Name: Project Number:	NSK1951 Elmco 07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
9114381-MSD1												
1,2,3-Trichloropropane	ND	4610		ug/L	5000	92%	49 - 148	5	25	9114381	NSK1999-04RE3	11/26/09 03:30
1,3,5-Trimethylbenzene	399	5950		ug/L	5000	111%	67 - 151	4	21	9114381	NSK1999-04RE3	11/26/09 03:30
1,2,4-Trimethylbenzene	1430	6900		ug/L	5000	109%	69 - 150	3	20	9114381	NSK1999-04RE3	11/26/09 03:30
Vinyl chloride	ND	5780		ug/L	5000	116%	53 - 137	3	32	9114381	NSK1999-04RE3	11/26/09 03:30
Xylenes, total	5650	20700		ug/L	15000	100%	68 - 158	4	18	9114381	NSK1999-04RE3	11/26/09 03:30
Diisopropyl Ether	2850	7380		ug/L	5000	90%	59 - 145	4	32	9114381	NSK1999-04RE3	11/26/09 03:30
Surrogate: 1,2-Dichloroethane-d4		23.9		ug/L	25.0	96%	63 - 140			9114381	NSK1999-04RE3	11/26/09 03:30
Surrogate: Dibromofluoromethane		25.5		ug/L	25.0	102%	73 - 131			9114381	NSK1999-04RE3	11/26/09 03:30
Surrogate: Toluene-d8		23.3		ug/L	25.0	93%	80 - 120			9114381	NSK1999-04RE3	11/26/09 03:30
Surrogate: 4-Bromofluorobenzene		24.9		ug/L	25.0	99%	79 - 125			9114381	NSK1999-04RE3	11/26/09 03:30

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Tennessee
SW846 8260B	Water	N/A	X	N/A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSK1951
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	11/20/09 15:26

DATA QUALIFIERS AND DEFINITIONS

L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
R2	The RPD exceeded the acceptance limit.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RE

NSK1951

Cooler Received/Opened On: 11/20/2009 @ 1526

1. Tracking #_____(last 4 digits, FedEx)

Courier: Walk-in IR Gun ID: 95610068

2. Temperature of rep. sample or temp blank when opened: 6.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

WASTE MANAGEMENT
CHAIN OF CUSTODY

Internal Use Only

Sampler Name (Print): Mike Baker	Signature: Mike Baker
Site Name: ELMCO	Spec Request: AC
Site Location: Franklin, TN	Event Name:

NSK1951
12/07/09 23 59

TA Sample No.	Client Sample ID	Sampling Date	Sampling Time	MATRIX	COMP / GRAB	8260VOA	T-METALS	D-METALS	CHLORIDE/SULFATE/NITRATE PH, TSS, TDS	ALK / CARB / BICARB	HARDNESS	NH_3 / COD	TOC							Additional Analysis/Remarks
				INDICATE PRESERVATIVE BY USING KEY BELOW (OPTIONAL)																
				INDICATE CONTAINER BY USING KEY BELOW																
	EV-6	11/19/09	1130	W	G	X											✓	01		

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Mike Baker	TrAD	11/19/09	1400	B. Thom	TA	11-19-09	3:05P
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
				[illegible]	TA Nashville	11/19/09	1526

Matrix Key
- WW = Wastewater
- W = Water/Groundwater
- S = Solid
- Sl = Sludge
- MS = Miscellaneous Solids
- Ol = Oil
- A = Air
- O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservstion Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Courier:

Bill of Lading:

TAL-8219 (1207)

December 2009 Laboratory Report (Excerpt)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSL1367
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Jason Unkefer	Received:	12/11/09 12:57

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSL1367-12 (EV-6 - Ground Water) Sampled: 12/10/09 13:45								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	**106**		ug/L	50.0	1	12/14/09 19:58	SW846 8260B	9123940
Benzene	**8.33**		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Bromobenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Bromochloromethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Bromodichloromethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Bromoform	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Bromomethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
2-Butanone	ND		ug/L	50.0	1	12/14/09 19:58	SW846 8260B	9123940
sec-Butylbenzene	**1.12**		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
n-Butylbenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
tert-Butylbenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Carbon disulfide	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Carbon Tetrachloride	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Chlorobenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Chlorodibromomethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Chloroethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Chloroform	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Chloromethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
2-Chlorotoluene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
4-Chlorotoluene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2-Dibromo-3-chloropropane	ND		ug/L	5.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2-Dibromoethane (EDB)	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Dibromomethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,4-Dichlorobenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,3-Dichlorobenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2-Dichlorobenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Dichlorodifluoromethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,1-Dichloroethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2-Dichloroethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
cis-1,2-Dichloroethene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,1-Dichloroethene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
trans-1,2-Dichloroethene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,3-Dichloropropane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2-Dichloropropane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
2,2-Dichloropropane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
cis-1,3-Dichloropropene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
trans-1,3-Dichloropropene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,1-Dichloropropene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Ethylbenzene	**225**		ug/L	50.0	50	12/15/09 23:16	SW846 8260B	9123941
Hexachlorobutadiene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
2-Hexanone	ND		ug/L	50.0	1	12/14/09 19:58	SW846 8260B	9123940
Isopropylbenzene	**4.69**		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
p-Isopropyltoluene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NSL1367
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Jason Unkefer	Received:	12/11/09 12:57

ANALYTICAL REPORT

Sample ID: NSL1367-12 (EV-6 - Ground Water) - cont. Sampled: 12/10/09 13:45

Volatile Organic Compounds by EPA Method 8260B - cont.

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Methyl tert-Butyl Ether	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Methylene Chloride	ND		ug/L	5.00	1	12/14/09 19:58	SW846 8260B	9123940
4-Methyl-2-pentanone	ND		ug/L	10.0	1	12/14/09 19:58	SW846 8260B	9123940
Naphthalene	ND		ug/L	5.00	1	12/14/09 19:58	SW846 8260B	9123940
n-Propylbenzene	**3.92**		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Styrene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,1,1,2-Tetrachloroethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,1,2,2-Tetrachloroethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Tetrachloroethene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Toluene	**73800**	B1	ug/L	500	500	12/15/09 23:43	SW846 8260B	9123941
1,2,3-Trichlorobenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2,4-Trichlorobenzene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,1,2-Trichloroethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,1,1-Trichloroethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Trichloroethene	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Trichlorofluoromethane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2,3-Trichloropropane	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,3,5-Trimethylbenzene	**3.21**		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
1,2,4-Trimethylbenzene	**13.3**		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Vinyl chloride	ND		ug/L	1.00	1	12/14/09 19:58	SW846 8260B	9123940
Xylenes, total	**1820**		ug/L	150	50	12/15/09 23:16	SW846 8260B	9123941
Surr: 1,2-Dichloroethane-d4 (63-140%)	*91 %*					*12/14/09 19:58*	*SW846 8260B*	*9123940*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*101 %*					*12/15/09 23:16*	*SW846 8260B*	*9123941*
Surr: 1,2-Dichloroethane-d4 (63-140%)	*101 %*					*12/15/09 23:43*	*SW846 8260B*	*9123941*
Surr: Dibromofluoromethane (73-131%)	*90 %*					*12/14/09 19:58*	*SW846 8260B*	*9123940*
Surr: Dibromofluoromethane (73-131%)	*98 %*					*12/15/09 23:16*	*SW846 8260B*	*9123941*
Surr: Dibromofluoromethane (73-131%)	*97 %*					*12/15/09 23:43*	*SW846 8260B*	*9123941*
Surr: Toluene-d8 (80-120%)	*40 %*	*ZX*				*12/14/09 19:58*	*SW846 8260B*	*9123940*
Surr: Toluene-d8 (80-120%)	*91 %*					*12/15/09 23:16*	*SW846 8260B*	*9123941*
Surr: Toluene-d8 (80-120%)	*98 %*					*12/15/09 23:43*	*SW846 8260B*	*9123941*
Surr: 4-Bromofluorobenzene (79-125%)	*110 %*					*12/14/09 19:58*	*SW846 8260B*	*9123940*
Surr: 4-Bromofluorobenzene (79-125%)	*103 %*					*12/15/09 23:16*	*SW846 8260B*	*9123941*
Surr: 4-Bromofluorobenzene (79-125%)	*104 %*					*12/15/09 23:43*	*SW846 8260B*	*9123941*

March 2010 Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

April 08, 2010 9:38:00AM

Client: TriAD Env. Consultants (6921)
207 Donelson Pike, Suite 200
Nashville, TN 37214
Attn: Chris Scott

Work Order: NTC2309
Project Name: Elmco
Project Nbr: 07-Elm01-01
P/O Nbr:
Date Received: 03/25/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
EV-6	NTC2309-12	03/24/10 15:15

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Tennessee Certification Number: 02008

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTC2309-12 (EV-6 - Ground Water) Sampled: 03/24/10 15:15								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND	RL1	ug/L	50000	1000	04/07/10 11:21	SW846 8260B	10D0804
Benzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Bromobenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Bromochloromethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Bromodichloromethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Bromoform	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Bromomethane	ND	L, RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
2-Butanone	ND	RL1	ug/L	50000	1000	04/07/10 11:21	SW846 8260B	10D0804
sec-Butylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
n-Butylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
tert-Butylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Carbon disulfide	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Carbon Tetrachloride	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Chlorobenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Chlorodibromomethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Chloroethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Chloroform	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Chloromethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
2-Chlorotoluene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
4-Chlorotoluene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	5000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Dibromomethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,4-Dichlorobenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,3-Dichlorobenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2-Dichlorobenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Dichlorodifluoromethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,1-Dichloroethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2-Dichloroethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
cis-1,2-Dichloroethene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,1-Dichloroethene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
trans-1,2-Dichloroethene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,3-Dichloropropane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2-Dichloropropane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
2,2-Dichloropropane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
cis-1,3-Dichloropropene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
trans-1,3-Dichloropropene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,1-Dichloropropene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Ethylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Hexachlorobutadiene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
2-Hexanone	ND	RL1	ug/L	50000	1000	04/07/10 11:21	SW846 8260B	10D0804
Isopropylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
p-Isopropyltoluene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTC2309-12 (EV-6 - Ground Water) - cont. Sampled: 03/24/10 15:15								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Methylene Chloride	ND	RL1	ug/L	5000	1000	04/07/10 11:21	SW846 8260B	10D0804
4-Methyl-2-pentanone	ND	RL1	ug/L	10000	1000	04/07/10 11:21	SW846 8260B	10D0804
Naphthalene	ND	RL1	ug/L	5000	1000	04/07/10 11:21	SW846 8260B	10D0804
n-Propylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Styrene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Tetrachloroethene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Toluene	**160000**		ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2,3-Trichlorobenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2,4-Trichlorobenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,1,2-Trichloroethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,1,1-Trichloroethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Trichloroethene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Trichlorofluoromethane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2,3-Trichloropropane	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,3,5-Trimethylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
1,2,4-Trimethylbenzene	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Vinyl chloride	ND	RL1	ug/L	1000	1000	04/07/10 11:21	SW846 8260B	10D0804
Xylenes, total	**4850**		ug/L	3000	1000	04/07/10 11:21	SW846 8260B	10D0804
Surr: 1,2-Dichloroethane-d4 (63-140%)	*99 %*					*04/07/10 11:21*	*SW846 8260B*	*10D0804*
Surr: Dibromofluoromethane (73-131%)	*108 %*					*04/07/10 11:21*	*SW846 8260B*	*10D0804*
Surr: Toluene-d8 (80-120%)	*104 %*					*04/07/10 11:21*	*SW846 8260B*	*10D0804*
Surr: 4-Bromofluorobenzene (79-125%)	*95 %*					*04/07/10 11:21*	*SW846 8260B*	*10D0804*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
10D0804-BLK1						
Acetone	<25.0		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Benzene	<0.410		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Bromobenzene	<0.360		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Bromochloromethane	<0.470		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Bromodichloromethane	<0.270		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Bromoform	<0.430		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Bromomethane	<0.300		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
2-Butanone	<2.10		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
sec-Butylbenzene	<0.360		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
n-Butylbenzene	<0.310		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
tert-Butylbenzene	<0.380		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Carbon disulfide	<0.360		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Carbon Tetrachloride	<0.330		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Chlorobenzene	<0.220		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Chlorodibromomethane	<0.260		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Chloroethane	<0.460		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Chloroform	<0.250		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Chloromethane	<0.390		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
2-Chlorotoluene	<0.510		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
4-Chlorotoluene	<0.510		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2-Dibromo-3-chloropropane	<0.860		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2-Dibromoethane (EDB)	<0.460		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Dibromomethane	<0.410		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,4-Dichlorobenzene	<0.430		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,3-Dichlorobenzene	<0.320		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2-Dichlorobenzene	<0.400		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Dichlorodifluoromethane	<0.190		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,1-Dichloroethane	<0.340		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2-Dichloroethane	<0.350		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
cis-1,2-Dichloroethene	<0.330		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,1-Dichloroethene	<0.220		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
trans-1,2-Dichloroethene	<0.330		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,3-Dichloropropane	<0.270		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2-Dichloropropane	<0.240		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
2,2-Dichloropropane	<0.300		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
cis-1,3-Dichloropropene	<0.330		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
trans-1,3-Dichloropropene	<0.330		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,1-Dichloropropene	<0.260		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Ethylbenzene	<0.350		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Hexachlorobutadiene	<0.790		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
2-Hexanone	<1.40		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
10D0804-BLK1						
Isopropylbenzene	<0.400		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
p-Isopropyltoluene	<0.330		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Methyl tert-Butyl Ether	<0.320		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Methylene Chloride	<0.480		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
4-Methyl-2-pentanone	<1.40		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Naphthalene	<0.380		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
n-Propylbenzene	<0.390		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Styrene	<0.260		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,1,1,2-Tetrachloroethane	<0.200		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,1,2,2-Tetrachloroethane	<0.360		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Tetrachloroethene	<0.320		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Toluene	<0.350		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2,3-Trichlorobenzene	0.320		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2,4-Trichlorobenzene	<0.360		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,1,2-Trichloroethane	<0.320		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,1,1-Trichloroethane	<0.190		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Trichloroethene	<0.260		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Trichlorofluoromethane	<0.220		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2,3-Trichloropropane	<0.470		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,3,5-Trimethylbenzene	<0.360		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
1,2,4-Trimethylbenzene	<0.320		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Vinyl chloride	<0.220		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Xylenes, total	<0.730		ug/L	10D0804	10D0804-BLK1	04/07/10 10:26
Surrogate: 1,2-Dichloroethane-d4	99%			10D0804	10D0804-BLK1	04/07/10 10:26
Surrogate: Dibromofluoromethane	108%			10D0804	10D0804-BLK1	04/07/10 10:26
Surrogate: Toluene-d8	100%			10D0804	10D0804-BLK1	04/07/10 10:26
Surrogate: 4-Bromofluorobenzene	97%			10D0804	10D0804-BLK1	04/07/10 10:26

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Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
10D0804-BS1								
Acetone	250	266		ug/L	107%	56 - 150	10D0804	04/07/10 08:37
Benzene	50.0	50.9		ug/L	102%	80 - 121	10D0804	04/07/10 08:37
Bromobenzene	50.0	54.6		ug/L	109%	72 - 130	10D0804	04/07/10 08:37
Bromochloromethane	50.0	53.9		ug/L	108%	73 - 137	10D0804	04/07/10 08:37
Bromodichloromethane	50.0	49.0		ug/L	98%	75 - 131	10D0804	04/07/10 08:37
Bromoform	50.0	51.5		ug/L	103%	65 - 140	10D0804	04/07/10 08:37
Bromomethane	50.0	77.8	L	ug/L	156%	50 - 150	10D0804	04/07/10 08:37
2-Butanone	250	256		ug/L	102%	70 - 144	10D0804	04/07/10 08:37
sec-Butylbenzene	50.0	53.5		ug/L	107%	72 - 140	10D0804	04/07/10 08:37
n-Butylbenzene	50.0	54.3		ug/L	109%	68 - 140	10D0804	04/07/10 08:37
tert-Butylbenzene	50.0	55.2		ug/L	110%	76 - 135	10D0804	04/07/10 08:37
Carbon disulfide	50.0	51.0		ug/L	102%	74 - 137	10D0804	04/07/10 08:37
Carbon Tetrachloride	50.0	53.0		ug/L	106%	71 - 137	10D0804	04/07/10 08:37
Chlorobenzene	50.0	51.7		ug/L	103%	80 - 121	10D0804	04/07/10 08:37
Chlorodibromomethane	50.0	51.5		ug/L	103%	68 - 137	10D0804	04/07/10 08:37
Chloroethane	50.0	52.5		ug/L	105%	50 - 146	10D0804	04/07/10 08:37
Chloroform	50.0	56.2		ug/L	112%	73 - 131	10D0804	04/07/10 08:37
Chloromethane	50.0	48.9		ug/L	98%	30 - 132	10D0804	04/07/10 08:37
2-Chlorotoluene	50.0	51.5		ug/L	103%	74 - 135	10D0804	04/07/10 08:37
4-Chlorotoluene	50.0	52.6		ug/L	105%	74 - 132	10D0804	04/07/10 08:37
1,2-Dibromo-3-chloropropane	50.0	50.0		ug/L	100%	56 - 145	10D0804	04/07/10 08:37
1,2-Dibromoethane (EDB)	50.0	53.3		ug/L	107%	80 - 135	10D0804	04/07/10 08:37
Dibromomethane	50.0	52.1		ug/L	104%	78 - 133	10D0804	04/07/10 08:37
1,4-Dichlorobenzene	50.0	54.2		ug/L	108%	80 - 120	10D0804	04/07/10 08:37
1,3-Dichlorobenzene	50.0	53.8		ug/L	108%	80 - 128	10D0804	04/07/10 08:37
1,2-Dichlorobenzene	50.0	56.2		ug/L	112%	80 - 125	10D0804	04/07/10 08:37
Dichlorodifluoromethane	50.0	36.2		ug/L	72%	30 - 132	10D0804	04/07/10 08:37
1,1-Dichloroethane	50.0	54.0		ug/L	108%	75 - 125	10D0804	04/07/10 08:37
1,2-Dichloroethane	50.0	54.5		ug/L	109%	70 - 134	10D0804	04/07/10 08:37
cis-1,2-Dichloroethene	50.0	54.0		ug/L	108%	71 - 132	10D0804	04/07/10 08:37
1,1-Dichloroethene	50.0	45.9		ug/L	92%	73 - 125	10D0804	04/07/10 08:37
trans-1,2-Dichloroethene	50.0	53.4		ug/L	107%	77 - 125	10D0804	04/07/10 08:37
1,3-Dichloropropane	50.0	51.3		ug/L	103%	76 - 125	10D0804	04/07/10 08:37
1,2-Dichloropropane	50.0	50.1		ug/L	100%	72 - 120	10D0804	04/07/10 08:37
2,2-Dichloropropane	50.0	52.8		ug/L	106%	50 - 150	10D0804	04/07/10 08:37
cis-1,3-Dichloropropene	50.0	54.3		ug/L	109%	70 - 140	10D0804	04/07/10 08:37
trans-1,3-Dichloropropene	50.0	53.2		ug/L	106%	62 - 139	10D0804	04/07/10 08:37
1,1-Dichloropropene	50.0	54.2		ug/L	108%	78 - 126	10D0804	04/07/10 08:37
Ethylbenzene	50.0	50.3		ug/L	101%	78 - 133	10D0804	04/07/10 08:37
Hexachlorobutadiene	50.0	51.8		ug/L	104%	70 - 150	10D0804	04/07/10 08:37
2-Hexanone	250	272		ug/L	109%	60 - 150	10D0804	04/07/10 08:37

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
10D0804-BS1								
Isopropylbenzene	50.0	53.3		ug/L	107%	69 - 120	10D0804	04/07/10 08:37
p-Isopropyltoluene	50.0	52.5		ug/L	105%	72 - 134	10D0804	04/07/10 08:37
Methyl tert-Butyl Ether	50.0	48.4		ug/L	97%	76 - 120	10D0804	04/07/10 08:37
Methylene Chloride	50.0	55.9		ug/L	112%	80 - 133	10D0804	04/07/10 08:37
4-Methyl-2-pentanone	250	249		ug/L	100%	62 - 146	10D0804	04/07/10 08:37
Naphthalene	50.0	55.8		ug/L	112%	71 - 139	10D0804	04/07/10 08:37
n-Propylbenzene	50.0	53.6		ug/L	107%	70 - 143	10D0804	04/07/10 08:37
Styrene	50.0	51.3		ug/L	103%	80 - 136	10D0804	04/07/10 08:37
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L	101%	80 - 130	10D0804	04/07/10 08:37
1,1,2,2-Tetrachloroethane	50.0	55.0		ug/L	110%	73 - 131	10D0804	04/07/10 08:37
Tetrachloroethene	50.0	49.7		ug/L	99%	77 - 131	10D0804	04/07/10 08:37
Toluene	50.0	57.2		ug/L	114%	78 - 125	10D0804	04/07/10 08:37
1,2,3-Trichlorobenzene	50.0	59.0		ug/L	118%	71 - 138	10D0804	04/07/10 08:37
1,2,4-Trichlorobenzene	50.0	57.3		ug/L	115%	74 - 136	10D0804	04/07/10 08:37
1,1,2-Trichloroethane	50.0	51.6		ug/L	103%	80 - 123	10D0804	04/07/10 08:37
1,1,1-Trichloroethane	50.0	54.7		ug/L	109%	75 - 137	10D0804	04/07/10 08:37
Trichloroethene	50.0	51.8		ug/L	104%	74 - 139	10D0804	04/07/10 08:37
Trichlorofluoromethane	50.0	47.2		ug/L	94%	60 - 133	10D0804	04/07/10 08:37
1,2,3-Trichloropropane	50.0	56.4		ug/L	113%	64 - 127	10D0804	04/07/10 08:37
1,3,5-Trimethylbenzene	50.0	53.1		ug/L	106%	75 - 134	10D0804	04/07/10 08:37
1,2,4-Trimethylbenzene	50.0	52.1		ug/L	104%	77 - 134	10D0804	04/07/10 08:37
Vinyl chloride	50.0	55.6		ug/L	111%	60 - 122	10D0804	04/07/10 08:37
Xylenes, total	150	148		ug/L	99%	78 - 134	10D0804	04/07/10 08:37
Surrogate: 1,2-Dichloroethane-d4	25.0	22.1			88%	63 - 140	10D0804	04/07/10 08:37
Surrogate: Dibromofluoromethane	25.0	24.2			97%	73 - 131	10D0804	04/07/10 08:37
Surrogate: Toluene-d8	25.0	24.0			96%	80 - 120	10D0804	04/07/10 08:37
Surrogate: 4-Bromofluorobenzene	25.0	25.9			104%	79 - 125	10D0804	04/07/10 08:37

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
10D0804-BSD1												
Acetone		258		ug/L	250	103%	56 - 150	3	31	10D0804		04/07/10 09:04
Benzene		52.1		ug/L	50.0	104%	80 - 121	2	12	10D0804		04/07/10 09:04
Bromobenzene		55.3		ug/L	50.0	111%	72 - 130	1	23	10D0804		04/07/10 09:04
Bromochloromethane		53.4		ug/L	50.0	107%	73 - 137	0.9	32	10D0804		04/07/10 09:04
Bromodichloromethane		49.9		ug/L	50.0	100%	75 - 131	2	13	10D0804		04/07/10 09:04
Bromoform		52.1		ug/L	50.0	104%	65 - 140	1	18	10D0804		04/07/10 09:04
Bromomethane		81.5	L	ug/L	50.0	163%	50 - 150	5	50	10D0804		04/07/10 09:04
2-Butanone		257		ug/L	250	103%	70 - 144	0.6	37	10D0804		04/07/10 09:04
sec-Butylbenzene		54.6		ug/L	50.0	109%	72 - 140	2	21	10D0804		04/07/10 09:04
n-Butylbenzene		55.4		ug/L	50.0	111%	68 - 140	2	11	10D0804		04/07/10 09:04
tert-Butylbenzene		56.1		ug/L	50.0	112%	76 - 135	2	20	10D0804		04/07/10 09:04
Carbon disulfide		51.9		ug/L	50.0	104%	74 - 137	2	28	10D0804		04/07/10 09:04
Carbon Tetrachloride		54.8		ug/L	50.0	110%	71 - 137	3	26	10D0804		04/07/10 09:04
Chlorobenzene		52.7		ug/L	50.0	105%	80 - 121	2	11	10D0804		04/07/10 09:04
Chlorodibromomethane		53.1		ug/L	50.0	106%	68 - 137	3	16	10D0804		04/07/10 09:04
Chloroethane		52.9		ug/L	50.0	106%	50 - 146	0.8	35	10D0804		04/07/10 09:04
Chloroform		57.4		ug/L	50.0	115%	73 - 131	2	32	10D0804		04/07/10 09:04
Chloromethane		49.2		ug/L	50.0	98%	30 - 132	0.5	34	10D0804		04/07/10 09:04
2-Chlorotoluene		52.2		ug/L	50.0	104%	74 - 135	1	22	10D0804		04/07/10 09:04
4-Chlorotoluene		53.6		ug/L	50.0	107%	74 - 132	2	22	10D0804		04/07/10 09:04
1,2-Dibromo-3-chloropropane		51.0		ug/L	50.0	102%	56 - 145	2	21	10D0804		04/07/10 09:04
1,2-Dibromoethane (EDB)		51.4		ug/L	50.0	103%	80 - 135	4	10	10D0804		04/07/10 09:04
Dibromomethane		52.1		ug/L	50.0	104%	78 - 133	0.04	11	10D0804		04/07/10 09:04
1,4-Dichlorobenzene		55.4		ug/L	50.0	111%	80 - 120	2	10	10D0804		04/07/10 09:04
1,3-Dichlorobenzene		54.9		ug/L	50.0	110%	80 - 128	2	18	10D0804		04/07/10 09:04
1,2-Dichlorobenzene		56.9		ug/L	50.0	114%	80 - 125	1	11	10D0804		04/07/10 09:04
Dichlorodifluoromethane		36.7		ug/L	50.0	73%	30 - 132	1	32	10D0804		04/07/10 09:04
1,1-Dichloroethane		54.9		ug/L	50.0	110%	75 - 125	2	34	10D0804		04/07/10 09:04
1,2-Dichloroethane		56.9		ug/L	50.0	114%	70 - 134	4	25	10D0804		04/07/10 09:04
cis-1,2-Dichloroethene		55.0		ug/L	50.0	110%	71 - 132	2	32	10D0804		04/07/10 09:04
1,1-Dichloroethene		46.0		ug/L	50.0	92%	73 - 125	0.2	31	10D0804		04/07/10 09:04
trans-1,2-Dichloroethene		54.4		ug/L	50.0	109%	77 - 125	2	32	10D0804		04/07/10 09:04
1,3-Dichloropropane		51.8		ug/L	50.0	104%	76 - 125	1	20	10D0804		04/07/10 09:04
1,2-Dichloropropane		51.2		ug/L	50.0	102%	72 - 120	2	11	10D0804		04/07/10 09:04
2,2-Dichloropropane		52.4		ug/L	50.0	105%	50 - 150	0.7	11	10D0804		04/07/10 09:04
cis-1,3-Dichloropropene		54.9		ug/L	50.0	110%	70 - 140	1	35	10D0804		04/07/10 09:04
trans-1,3-Dichloropropene		55.1		ug/L	50.0	110%	62 - 139	4	26	10D0804		04/07/10 09:04
1,1-Dichloropropene		55.4		ug/L	50.0	111%	78 - 126	2	18	10D0804		04/07/10 09:04
Ethylbenzene		51.5		ug/L	50.0	103%	78 - 133	2	12	10D0804		04/07/10 09:04
Hexachlorobutadiene		54.4		ug/L	50.0	109%	70 - 150	5	21	10D0804		04/07/10 09:04
2-Hexanone		275		ug/L	250	110%	60 - 150	1	20	10D0804		04/07/10 09:04

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
10D0804-BSD1												
Isopropylbenzene		54.4		ug/L	50.0	109%	69 - 120	2	15	10D0804		04/07/10 09:04
p-Isopropyltoluene		53.7		ug/L	50.0	107%	72 - 134	2	18	10D0804		04/07/10 09:04
Methyl tert-Butyl Ether		47.1		ug/L	50.0	94%	76 - 120	3	32	10D0804		04/07/10 09:04
Methylene Chloride		56.1		ug/L	50.0	112%	80 - 133	0.4	36	10D0804		04/07/10 09:04
4-Methyl-2-pentanone		254		ug/L	250	101%	62 - 146	2	35	10D0804		04/07/10 09:04
Naphthalene		59.0		ug/L	50.0	118%	71 - 139	6	30	10D0804		04/07/10 09:04
n-Propylbenzene		54.6		ug/L	50.0	109%	70 - 143	2	23	10D0804		04/07/10 09:04
Styrene		52.3		ug/L	50.0	105%	80 - 136	2	29	10D0804		04/07/10 09:04
1,1,1,2-Tetrachloroethane		52.2		ug/L	50.0	104%	80 - 130	3	11	10D0804		04/07/10 09:04
1,1,2,2-Tetrachloroethane		55.3		ug/L	50.0	111%	73 - 131	0.7	28	10D0804		04/07/10 09:04
Tetrachloroethene		51.1		ug/L	50.0	102%	77 - 131	3	16	10D0804		04/07/10 09:04
Toluene		58.6		ug/L	50.0	117%	78 - 125	3	35	10D0804		04/07/10 09:04
1,2,3-Trichlorobenzene		63.7		ug/L	50.0	127%	71 - 138	8	28	10D0804		04/07/10 09:04
1,2,4-Trichlorobenzene		60.6		ug/L	50.0	121%	74 - 136	6	23	10D0804		04/07/10 09:04
1,1,2-Trichloroethane		52.7		ug/L	50.0	105%	80 - 123	2	21	10D0804		04/07/10 09:04
1,1,1-Trichloroethane		56.4		ug/L	50.0	113%	75 - 137	3	29	10D0804		04/07/10 09:04
Trichloroethene		53.1		ug/L	50.0	106%	74 - 139	2	11	10D0804		04/07/10 09:04
Trichlorofluoromethane		47.6		ug/L	50.0	95%	60 - 133	0.8	33	10D0804		04/07/10 09:04
1,2,3-Trichloropropane		57.3		ug/L	50.0	115%	64 - 127	2	25	10D0804		04/07/10 09:04
1,3,5-Trimethylbenzene		54.0		ug/L	50.0	108%	75 - 134	2	21	10D0804		04/07/10 09:04
1,2,4-Trimethylbenzene		53.0		ug/L	50.0	106%	77 - 134	2	20	10D0804		04/07/10 09:04
Vinyl chloride		55.9		ug/L	50.0	112%	60 - 122	0.5	32	10D0804		04/07/10 09:04
Xylenes, total		152		ug/L	150	101%	78 - 134	3	18	10D0804		04/07/10 09:04
Surrogate: 1,2-Dichloroethane-d4		22.5		ug/L	25.0	90%	63 - 140			10D0804		04/07/10 09:04
Surrogate: Dibromofluoromethane		24.0		ug/L	25.0	96%	73 - 131			10D0804		04/07/10 09:04
Surrogate: Toluene-d8		23.8		ug/L	25.0	95%	80 - 120			10D0804		04/07/10 09:04
Surrogate: 4-Bromofluorobenzene		25.6		ug/L	25.0	103%	79 - 125			10D0804		04/07/10 09:04

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
10D0804-MS1										
Acetone	ND	496000		ug/L	500000	99%	56 - 150	10D0804	NTC2309-03RE3	04/07/10 15:00
Benzene	ND	87800		ug/L	100000	88%	65 - 151	10D0804	NTC2309-03RE3	04/07/10 15:00
Bromobenzene	ND	96400		ug/L	100000	96%	69 - 142	10D0804	NTC2309-03RE3	04/07/10 15:00
Bromochloromethane	ND	98700		ug/L	100000	99%	64 - 154	10D0804	NTC2309-03RE3	04/07/10 15:00
Bromodichloromethane	ND	100000		ug/L	100000	100%	75 - 138	10D0804	NTC2309-03RE3	04/07/10 15:00
Bromoform	ND	108000		ug/L	100000	108%	55 - 153	10D0804	NTC2309-03RE3	04/07/10 15:00
Bromomethane	ND	125000		ug/L	100000	125%	13 - 176	10D0804	NTC2309-03RE3	04/07/10 15:00
2-Butanone	ND	536000		ug/L	500000	107%	45 - 164	10D0804	NTC2309-03RE3	04/07/10 15:00
sec-Butylbenzene	ND	78200		ug/L	100000	78%	68 - 159	10D0804	NTC2309-03RE3	04/07/10 15:00
n-Butylbenzene	ND	76500		ug/L	100000	77%	67 - 151	10D0804	NTC2309-03RE3	04/07/10 15:00
tert-Butylbenzene	ND	85000		ug/L	100000	85%	73 - 153	10D0804	NTC2309-03RE3	04/07/10 15:00
Carbon disulfide	ND	59700		ug/L	100000	60%	33 - 187	10D0804	NTC2309-03RE3	04/07/10 15:00
Carbon Tetrachloride	ND	89300		ug/L	100000	89%	64 - 157	10D0804	NTC2309-03RE3	04/07/10 15:00
Chlorobenzene	ND	86900		ug/L	100000	87%	78 - 136	10D0804	NTC2309-03RE3	04/07/10 15:00
Chlorodibromomethane	ND	107000		ug/L	100000	107%	64 - 145	10D0804	NTC2309-03RE3	04/07/10 15:00
Chloroethane	ND	81300		ug/L	100000	81%	48 - 159	10D0804	NTC2309-03RE3	04/07/10 15:00
Chloroform	ND	111000		ug/L	100000	111%	72 - 145	10D0804	NTC2309-03RE3	04/07/10 15:00
Chloromethane	ND	76200		ug/L	100000	76%	10 - 194	10D0804	NTC2309-03RE3	04/07/10 15:00
2-Chlorotoluene	ND	81800		ug/L	100000	82%	66 - 155	10D0804	NTC2309-03RE3	04/07/10 15:00
4-Chlorotoluene	ND	82400		ug/L	100000	82%	69 - 149	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2-Dibromo-3-chloropropane	ND	106000		ug/L	100000	106%	49 - 162	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2-Dibromoethane (EDB)	ND	98600		ug/L	100000	99%	70 - 152	10D0804	NTC2309-03RE3	04/07/10 15:00
Dibromomethane	ND	97400		ug/L	100000	97%	75 - 141	10D0804	NTC2309-03RE3	04/07/10 15:00
1,4-Dichlorobenzene	ND	88500		ug/L	100000	88%	75 - 135	10D0804	NTC2309-03RE3	04/07/10 15:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
10D0804-MS1										
1,3-Dichlorobenzene	ND	87100		ug/L	100000	87%	72 - 146	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2-Dichlorobenzene	ND	97800		ug/L	100000	98%	80 - 136	10D0804	NTC2309-03RE3	04/07/10 15:00
Dichlorodifluoromethane	ND	44500		ug/L	100000	45%	23 - 159	10D0804	NTC2309-03RE3	04/07/10 15:00
1,1-Dichloroethane	ND	105000		ug/L	100000	105%	64 - 154	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2-Dichloroethane	ND	107000		ug/L	100000	107%	72 - 137	10D0804	NTC2309-03RE3	04/07/10 15:00
cis-1,2-Dichloroethene	ND	100000		ug/L	100000	100%	57 - 154	10D0804	NTC2309-03RE3	04/07/10 15:00
1,1-Dichloroethene	ND	72800		ug/L	100000	73%	34 - 151	10D0804	NTC2309-03RE3	04/07/10 15:00
trans-1,2-Dichloroethene	ND	83000		ug/L	100000	83%	57 - 157	10D0804	NTC2309-03RE3	04/07/10 15:00
1,3-Dichloropropane	ND	103000		ug/L	100000	103%	71 - 137	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2-Dichloropropane	ND	98200		ug/L	100000	98%	71 - 139	10D0804	NTC2309-03RE3	04/07/10 15:00
2,2-Dichloropropane	ND	103000		ug/L	100000	103%	10 - 198	10D0804	NTC2309-03RE3	04/07/10 15:00
cis-1,3-Dichloropropene	ND	101000		ug/L	100000	101%	56 - 156	10D0804	NTC2309-03RE3	04/07/10 15:00
trans-1,3-Dichloropropene	ND	102000		ug/L	100000	102%	47 - 157	10D0804	NTC2309-03RE3	04/07/10 15:00
1,1-Dichloropropene	ND	83000		ug/L	100000	83%	70 - 155	10D0804	NTC2309-03RE3	04/07/10 15:00
Ethylbenzene	ND	80000		ug/L	100000	80%	68 - 157	10D0804	NTC2309-03RE3	04/07/10 15:00
Hexachlorobutadiene	ND	74200		ug/L	100000	74%	47 - 173	10D0804	NTC2309-03RE3	04/07/10 15:00
2-Hexanone	ND	602000		ug/L	500000	120%	57 - 154	10D0804	NTC2309-03RE3	04/07/10 15:00
Isopropylbenzene	ND	84800		ug/L	100000	85%	69 - 139	10D0804	NTC2309-03RE3	04/07/10 15:00
p-Isopropyltoluene	ND	74700		ug/L	100000	75%	69 - 151	10D0804	NTC2309-03RE3	04/07/10 15:00
Methyl tert-Butyl Ether	ND	112000		ug/L	100000	112%	56 - 152	10D0804	NTC2309-03RE3	04/07/10 15:00
Methylene Chloride	ND	99700		ug/L	100000	100%	71 - 136	10D0804	NTC2309-03RE3	04/07/10 15:00
4-Methyl-2-pentanone	ND	566000		ug/L	500000	113%	62 - 159	10D0804	NTC2309-03RE3	04/07/10 15:00
Naphthalene	ND	119000		ug/L	100000	119%	56 - 161	10D0804	NTC2309-03RE3	04/07/10 15:00
n-Propylbenzene	ND	77900		ug/L	100000	78%	61 - 167	10D0804	NTC2309-03RE3	04/07/10 15:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
10D0804-MS1										
Styrene	ND	87400		ug/L	100000	87%	69 - 150	10D0804	NTC2309-03RE3	04/07/10 15:00
1,1,1,2-Tetrachloroethane	ND	101000		ug/L	100000	101%	80 - 140	10D0804	NTC2309-03RE3	04/07/10 15:00
1,1,2,2-Tetrachloroethane	ND	121000		ug/L	100000	121%	76 - 141	10D0804	NTC2309-03RE3	04/07/10 15:00
Tetrachloroethene	ND	68500		ug/L	100000	68%	63 - 155	10D0804	NTC2309-03RE3	04/07/10 15:00
Toluene	461000	477000	M8	ug/L	100000	17%	61 - 153	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2,3-Trichlorobenzene	ND	114000		ug/L	100000	114%	57 - 155	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2,4-Trichlorobenzene	ND	104000		ug/L	100000	104%	64 - 147	10D0804	NTC2309-03RE3	04/07/10 15:00
1,1,2-Trichloroethane	ND	107000		ug/L	100000	107%	74 - 138	10D0804	NTC2309-03RE3	04/07/10 15:00
1,1,1-Trichloroethane	ND	102000		ug/L	100000	102%	78 - 153	10D0804	NTC2309-03RE3	04/07/10 15:00
Trichloroethene	ND	82300		ug/L	100000	82%	74 - 139	10D0804	NTC2309-03RE3	04/07/10 15:00
Trichlorofluoromethane	ND	72100		ug/L	100000	72%	53 - 149	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2,3-Trichloropropane	ND	120000		ug/L	100000	120%	49 - 148	10D0804	NTC2309-03RE3	04/07/10 15:00
1,3,5-Trimethylbenzene	ND	79700		ug/L	100000	80%	67 - 151	10D0804	NTC2309-03RE3	04/07/10 15:00
1,2,4-Trimethylbenzene	ND	78700		ug/L	100000	79%	69 - 150	10D0804	NTC2309-03RE3	04/07/10 15:00
Vinyl chloride	ND	79600		ug/L	100000	80%	53 - 137	10D0804	NTC2309-03RE3	04/07/10 15:00
Xylenes, total	ND	237000		ug/L	300000	79%	68 - 158	10D0804	NTC2309-03RE3	04/07/10 15:00
Surrogate: 1,2-Dichloroethane-d4		24.0		ug/L	25.0	96%	63 - 140	10D0804	NTC2309-03RE3	04/07/10 15:00
Surrogate: Dibromofluoromethane		24.3		ug/L	25.0	97%	73 - 131	10D0804	NTC2309-03RE3	04/07/10 15:00
Surrogate: Toluene-d8		23.9		ug/L	25.0	95%	80 - 120	10D0804	NTC2309-03RE3	04/07/10 15:00
Surrogate: 4-Bromofluorobenzene		25.4		ug/L	25.0	102%	79 - 125	10D0804	NTC2309-03RE3	04/07/10 15:00

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
10D0804-MSD1												
Acetone	ND	495000		ug/L	500000	99%	56 - 150	0.3	31	10D0804	NTC2309-03RE3	04/07/10 15:27
Benzene	ND	87200		ug/L	100000	87%	65 - 151	0.7	12	10D0804	NTC2309-03RE3	04/07/10 15:27
Bromobenzene	ND	97400		ug/L	100000	97%	69 - 142	1	23	10D0804	NTC2309-03RE3	04/07/10 15:27
Bromochloromethane	ND	95600		ug/L	100000	96%	64 - 154	3	32	10D0804	NTC2309-03RE3	04/07/10 15:27
Bromodichloromethane	ND	100000		ug/L	100000	100%	75 - 138	0.4	13	10D0804	NTC2309-03RE3	04/07/10 15:27
Bromoform	ND	108000		ug/L	100000	108%	55 - 153	0.5	18	10D0804	NTC2309-03RE3	04/07/10 15:27
Bromomethane	ND	124000		ug/L	100000	124%	13 - 176	0.3	50	10D0804	NTC2309-03RE3	04/07/10 15:27
2-Butanone	ND	532000		ug/L	500000	106%	45 - 164	0.8	37	10D0804	NTC2309-03RE3	04/07/10 15:27
sec-Butylbenzene	ND	78700		ug/L	100000	79%	68 - 159	0.6	21	10D0804	NTC2309-03RE3	04/07/10 15:27
n-Butylbenzene	ND	77700		ug/L	100000	78%	67 - 151	1	11	10D0804	NTC2309-03RE3	04/07/10 15:27
tert-Butylbenzene	ND	85300		ug/L	100000	85%	73 - 153	0.4	20	10D0804	NTC2309-03RE3	04/07/10 15:27
Carbon disulfide	ND	59200		ug/L	100000	59%	33 - 187	0.8	28	10D0804	NTC2309-03RE3	04/07/10 15:27
Carbon Tetrachloride	ND	89900		ug/L	100000	90%	64 - 157	0.7	26	10D0804	NTC2309-03RE3	04/07/10 15:27
Chlorobenzene	ND	87100		ug/L	100000	87%	78 - 136	0.3	11	10D0804	NTC2309-03RE3	04/07/10 15:27
Chlorodibromomethane	ND	105000		ug/L	100000	105%	64 - 145	1	16	10D0804	NTC2309-03RE3	04/07/10 15:27
Chloroethane	ND	81600		ug/L	100000	82%	48 - 159	0.3	35	10D0804	NTC2309-03RE3	04/07/10 15:27
Chloroform	ND	109000		ug/L	100000	109%	72 - 145	1	32	10D0804	NTC2309-03RE3	04/07/10 15:27
Chloromethane	ND	70300		ug/L	100000	70%	10 - 194	8	34	10D0804	NTC2309-03RE3	04/07/10 15:27
2-Chlorotoluene	ND	83000		ug/L	100000	83%	66 - 155	1	22	10D0804	NTC2309-03RE3	04/07/10 15:27
4-Chlorotoluene	ND	83500		ug/L	100000	84%	69 - 149	1	22	10D0804	NTC2309-03RE3	04/07/10 15:27
1,2-Dibromo-3-chloropropane	ND	113000		ug/L	100000	113%	49 - 162	7	21	10D0804	NTC2309-03RE3	04/07/10 15:27
1,2-Dibromoethane (EDB)	ND	94700		ug/L	100000	95%	70 - 152	4	10	10D0804	NTC2309-03RE3	04/07/10 15:27
Dibromomethane	ND	95400		ug/L	100000	95%	75 - 141	2	11	10D0804	NTC2309-03RE3	04/07/10 15:27
1,4-Dichlorobenzene	ND	88200		ug/L	100000	88%	75 - 135	0.3	10	10D0804	NTC2309-03RE3	04/07/10 15:27
1,3-Dichlorobenzene	ND	87800		ug/L	100000	88%	72 - 146	0.7	18	10D0804	NTC2309-03RE3	04/07/10 15:27
1,2-Dichlorobenzene	ND	98800		ug/L	100000	99%	80 - 136	1	11	10D0804	NTC2309-03RE3	04/07/10 15:27

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
10D0804-MSD1												
Dichlorodifluoromethane	ND	45500		ug/L	100000	45%	23 - 159	2	32	10D0804	NTC2309-03R E3	04/07/10 15:27
1,1-Dichloroethane	ND	102000		ug/L	100000	102%	64 - 154	3	34	10D0804	NTC2309-03R E3	04/07/10 15:27
1,2-Dichloroethane	ND	106000		ug/L	100000	106%	72 - 137	2	25	10D0804	NTC2309-03R E3	04/07/10 15:27
cis-1,2-Dichloroethene	ND	98400		ug/L	100000	98%	57 - 154	2	32	10D0804	NTC2309-03R E3	04/07/10 15:27
1,1-Dichloroethene	ND	72400		ug/L	100000	72%	34 - 151	0.5	31	10D0804	NTC2309-03R E3	04/07/10 15:27
trans-1,2-Dichloroethene	ND	81100		ug/L	100000	81%	57 - 157	2	32	10D0804	NTC2309-03R E3	04/07/10 15:27
1,3-Dichloropropane	ND	101000		ug/L	100000	101%	71 - 137	2	20	10D0804	NTC2309-03R E3	04/07/10 15:27
1,2-Dichloropropane	ND	96400		ug/L	100000	96%	71 - 139	2	11	10D0804	NTC2309-03R E3	04/07/10 15:27
2,2-Dichloropropane	ND	96800		ug/L	100000	97%	10 - 198	6	11	10D0804	NTC2309-03R E3	04/07/10 15:27
cis-1,3-Dichloropropene	ND	97900		ug/L	100000	98%	56 - 156	3	35	10D0804	NTC2309-03R E3	04/07/10 15:27
trans-1,3-Dichloropropene	ND	101000		ug/L	100000	101%	47 - 157	1	26	10D0804	NTC2309-03R E3	04/07/10 15:27
1,1-Dichloropropene	ND	81900		ug/L	100000	82%	70 - 155	1	18	10D0804	NTC2309-03R E3	04/07/10 15:27
Ethylbenzene	ND	79000		ug/L	100000	79%	68 - 157	1	12	10D0804	NTC2309-03R E3	04/07/10 15:27
Hexachlorobutadiene	ND	78500		ug/L	100000	79%	47 - 173	6	21	10D0804	NTC2309-03R E3	04/07/10 15:27
2-Hexanone	ND	595000		ug/L	500000	119%	57 - 154	1	20	10D0804	NTC2309-03R E3	04/07/10 15:27
Isopropylbenzene	ND	84000		ug/L	100000	84%	69 - 139	0.9	15	10D0804	NTC2309-03R E3	04/07/10 15:27
p-Isopropyltoluene	ND	75400		ug/L	100000	75%	69 - 151	0.9	18	10D0804	NTC2309-03R E3	04/07/10 15:27
Methyl tert-Butyl Ether	ND	107000		ug/L	100000	107%	56 - 152	5	32	10D0804	NTC2309-03R E3	04/07/10 15:27
Methylene Chloride	ND	97000		ug/L	100000	97%	71 - 136	3	36	10D0804	NTC2309-03R E3	04/07/10 15:27
4-Methyl-2-pentanone	ND	561000		ug/L	500000	112%	62 - 159	0.9	35	10D0804	NTC2309-03R E3	04/07/10 15:27
Naphthalene	ND	124000		ug/L	100000	124%	56 - 161	5	30	10D0804	NTC2309-03R E3	04/07/10 15:27
n-Propylbenzene	ND	79500		ug/L	100000	80%	61 - 167	2	23	10D0804	NTC2309-03R E3	04/07/10 15:27
Styrene	ND	85500		ug/L	100000	85%	69 - 150	2	29	10D0804	NTC2309-03R E3	04/07/10 15:27
1,1,1,2-Tetrachloroethane	ND	100000		ug/L	100000	100%	80 - 140	0.6	11	10D0804	NTC2309-03R E3	04/07/10 15:27
1,1,2,2-Tetrachloroethane	ND	124000		ug/L	100000	124%	76 - 141	2	28	10D0804	NTC2309-03R E3	04/07/10 15:27
Tetrachloroethene	ND	68300		ug/L	100000	68%	63 - 155	0.2	16	10D0804	NTC2309-03R E3	04/07/10 15:27

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
10D0804-MSD1												
Toluene	461000	502000	M8	ug/L	100000	41%	61 - 153	5	35	10D0804	NTC2309-03RE3	04/07/10 15:27
1,2,3-Trichlorobenzene	ND	124000		ug/L	100000	124%	57 - 155	8	28	10D0804	NTC2309-03RE3	04/07/10 15:27
1,2,4-Trichlorobenzene	ND	109000		ug/L	100000	109%	64 - 147	4	23	10D0804	NTC2309-03RE3	04/07/10 15:27
1,1,2-Trichloroethane	ND	107000		ug/L	100000	107%	74 - 138	0.9	21	10D0804	NTC2309-03RE3	04/07/10 15:27
1,1,1-Trichloroethane	ND	101000		ug/L	100000	101%	78 - 153	0.5	29	10D0804	NTC2309-03RE3	04/07/10 15:27
Trichloroethene	ND	81700		ug/L	100000	82%	74 - 139	0.7	11	10D0804	NTC2309-03RE3	04/07/10 15:27
Trichlorofluoromethane	ND	70100		ug/L	100000	70%	53 - 149	3	33	10D0804	NTC2309-03RE3	04/07/10 15:27
1,2,3-Trichloropropane	ND	124000		ug/L	100000	124%	49 - 148	3	25	10D0804	NTC2309-03RE3	04/07/10 15:27
1,3,5-Trimethylbenzene	ND	81200		ug/L	100000	81%	67 - 151	2	21	10D0804	NTC2309-03RE3	04/07/10 15:27
1,2,4-Trimethylbenzene	ND	78600		ug/L	100000	79%	69 - 150	0.08	20	10D0804	NTC2309-03RE3	04/07/10 15:27
Vinyl chloride	ND	78300		ug/L	100000	78%	53 - 137	2	32	10D0804	NTC2309-03RE3	04/07/10 15:27
Xylenes, total	ND	233000		ug/L	300000	78%	68 - 158	2	18	10D0804	NTC2309-03RE3	04/07/10 15:27
Surrogate: 1,2-Dichloroethane-d4		23.3		ug/L	25.0	93%	63 - 140			10D0804	NTC2309-03RE3	04/07/10 15:27
Surrogate: Dibromofluoromethane		24.4		ug/L	25.0	97%	73 - 131			10D0804	NTC2309-03RE3	04/07/10 15:27
Surrogate: Toluene-d8		23.8		ug/L	25.0	95%	80 - 120			10D0804	NTC2309-03RE3	04/07/10 15:27
Surrogate: 4-Bromofluorobenzene		26.2		ug/L	25.0	105%	79 - 125			10D0804	NTC2309-03RE3	04/07/10 15:27

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THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTC2309
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Tennessee
SW846 8260B	Water	N/A	X	N/A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	03/25/10 15:46

DATA QUALIFIERS AND DEFINITIONS

L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

Nashville, TN

COOLER RECE

NTC2309

Cooler Received/Opened On 3-25-10 @ 1546

1. Tracking #_____(last 4 digits, FedEx)

Courier: Route IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 5.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where:_____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 56423

Received 1 set of VOAs not recorded on the COC, EV-6.

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
','"Reg District (CA)")

Client: TriAD Env. Consultants (6921)
Address: 207 Donelson Pike, Suite 200
City, State, Zip: Nashville TN 37214
Client Invoice Contact: Kim Browers
Client Project Mgr: Chris Scott
Client Telephone#: (615) 889-6888 Fax: (615) 889-4004
Sampler Name (Print) Jason Uykefer
SamplerSignature:

TA Account #: 488472 PO #:
Invoice to: TriAD Env. Consultants (6921)
Report to: Chris Scott
Project Name: Elmco
Facility ID: 07-Elm01-01
Reg District (CA):
Site Address:
City,State,Zip: Tennessee

NTC2309
04/08/10 23:59

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservativ: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B Volatile Organics	RUSH TAT (Pre Schedule)*	
MW-1	3/24/10	1428	3	X					X						X						X		-1
MW-2	3/25/10	1000	↓	↓					↓						↓						↓		-2
MW-3	" "	1220																					-3
MW-4	3/24/10	1020																					-4
MW-5	3/25/10	845																					-5
MW-6	3/24/10	1130																					-6
MW-7	3/24/10	1320																					-7
AR-1	3/25/10	1040																					-8
RW-1	3/25/10	1115																					-9
FB	3/25/10	1240																		X			-10

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.

NOTES/SPECIAL INSTRUCTIONS: BO # 18883

* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.

There may be a charge assessed for TestAmerica disposing of sample remainders.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
	3/25/10			3/25/10	3:00			

Shipped Via:	Shipped Via:	QC Deliverables (Please Circle One) :	Date Due of Report:
Received for TestAmerica by: Date: 3/25/10 Time: 1546	Temperature Upon Receipt: 5.7	Sample Containers Intact? Y N VOCs Free of Headspace? Y N	Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton Drive * Nashville TN 37204
Phone: (800) 765-0980 / (615) 726-0177 Fax:(615) 726-3404
',"Reg District (CA)")

Client: TriAD Env. Consultants (6921)
Address: 207 Donelson Pike, Suite 200
City, State, Zip: Nashville TN 37214
Client Invoice Contact: Kim Browers
Client Project Mgr: Chris Scott
Client Telephone#: (615) 889-6888 Fax: (615) 889-4004
Sampler Name (Print) Jason Unkefer
SamplerSignature:

TA Account #: 488472 PO #:
Invoice to: TriAD Env. Consultants (6921)
Report to: Chris Scott
Project Name: Elmco
Facility ID: 07-Elm01-01
Reg District (CA):
Site Address:
City,State,Zip: Tennessee

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservativ: Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	Analyze for: 8260B Volatile Organics	RUSH TAT (Pre Schedule)*
Trip	—	—	2	—	—	—														X	X	

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.

NOTES/SPECIAL INSTRUCTIONS: *BO #* 18883

* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments;additional charges may be assessed.

There may be a charge assessed for TestAmerica disposing of sample remainders.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
	3/25/10			3-25-10	3:00			

Shipped Via:			Shipped Via:		QC Deliverables (Please Circle One) : Level 2 Level 3 Level 4 Site Specific (If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)	Date Due of Report:
Received for TestAmerica by:	Date: 3/25/10	Time: 1516	Temperature Upon Receipt: 5.7	Sample Containers Intact? Y N VOCs Free of Headspace? Y N		

June 2010 Laboratory Report (Excerpt)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TriAD Env. Consultants (6921)	Work Order:	NTF1897
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	06/18/10 13:20

ANALYTICAL REPORT

Sample ID: NTF1897-02 (EV-6 - Water) Sampled: 06/16/10 13:30

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	ND	RL1	ug/L	25000	500	06/23/10 16:13	SW846 8260B	10F2928
Benzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Bromobenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Bromochloromethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Bromodichloromethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Bromoform	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Bromomethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
2-Butanone	ND	RL1	ug/L	25000	500	06/23/10 16:13	SW846 8260B	10F2928
sec-Butylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
n-Butylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
tert-Butylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Carbon disulfide	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Carbon Tetrachloride	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Chlorobenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Chlorodibromomethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Chloroethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Chloroform	**620**	B1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Chloromethane	ND	L, RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
2-Chlorotoluene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
4-Chlorotoluene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2-Dibromo-3-chloropropane	ND	RL1	ug/L	2500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2-Dibromoethane (EDB)	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Dibromomethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,4-Dichlorobenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,3-Dichlorobenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2-Dichlorobenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Dichlorodifluoromethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,1-Dichloroethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2-Dichloroethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
cis-1,2-Dichloroethene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,1-Dichloroethene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
trans-1,2-Dichloroethene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,3-Dichloropropane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2-Dichloropropane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
2,2-Dichloropropane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
cis-1,3-Dichloropropene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
trans-1,3-Dichloropropene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,1-Dichloropropene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Ethylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Hexachlorobutadiene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
2-Hexanone	ND	RL1	ug/L	25000	500	06/23/10 16:13	SW846 8260B	10F2928
Isopropylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
p-Isopropyltoluene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928

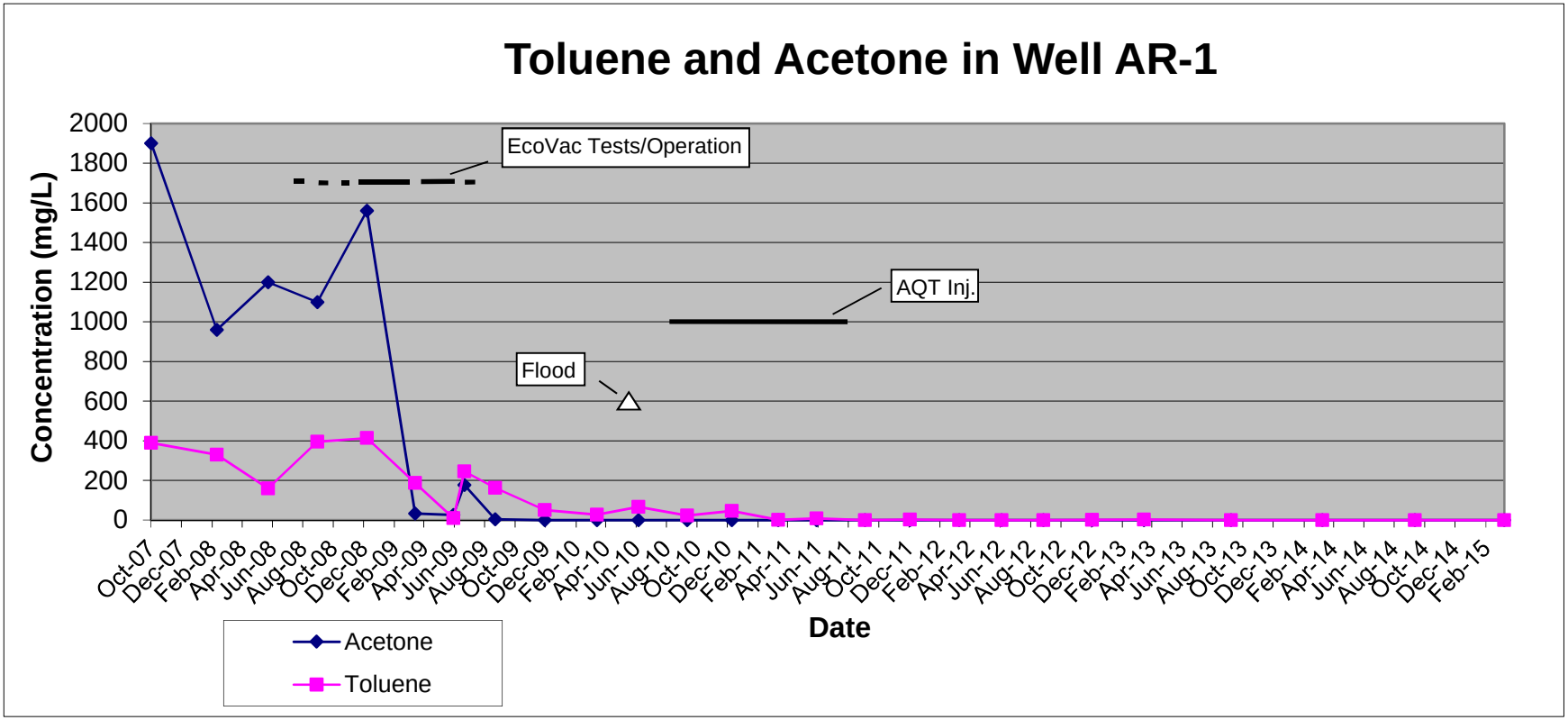
Client	TriAD Env. Consultants (6921)	Work Order:	NTF1897
	207 Donelson Pike, Suite 200	Project Name:	Elmco
	Nashville, TN 37214	Project Number:	07-Elm01-01
Attn	Chris Scott	Received:	06/18/10 13:20

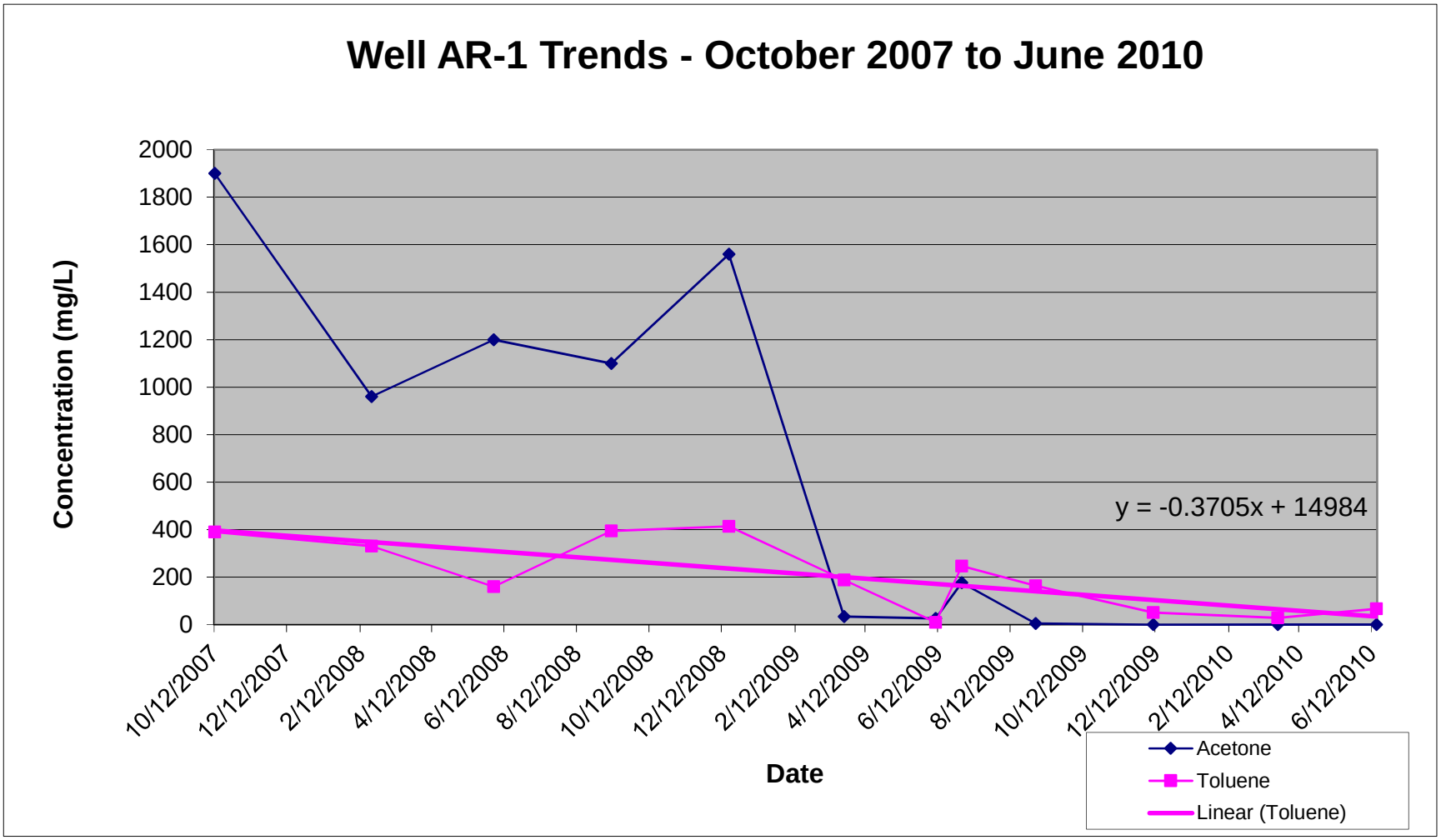
ANALYTICAL REPORT

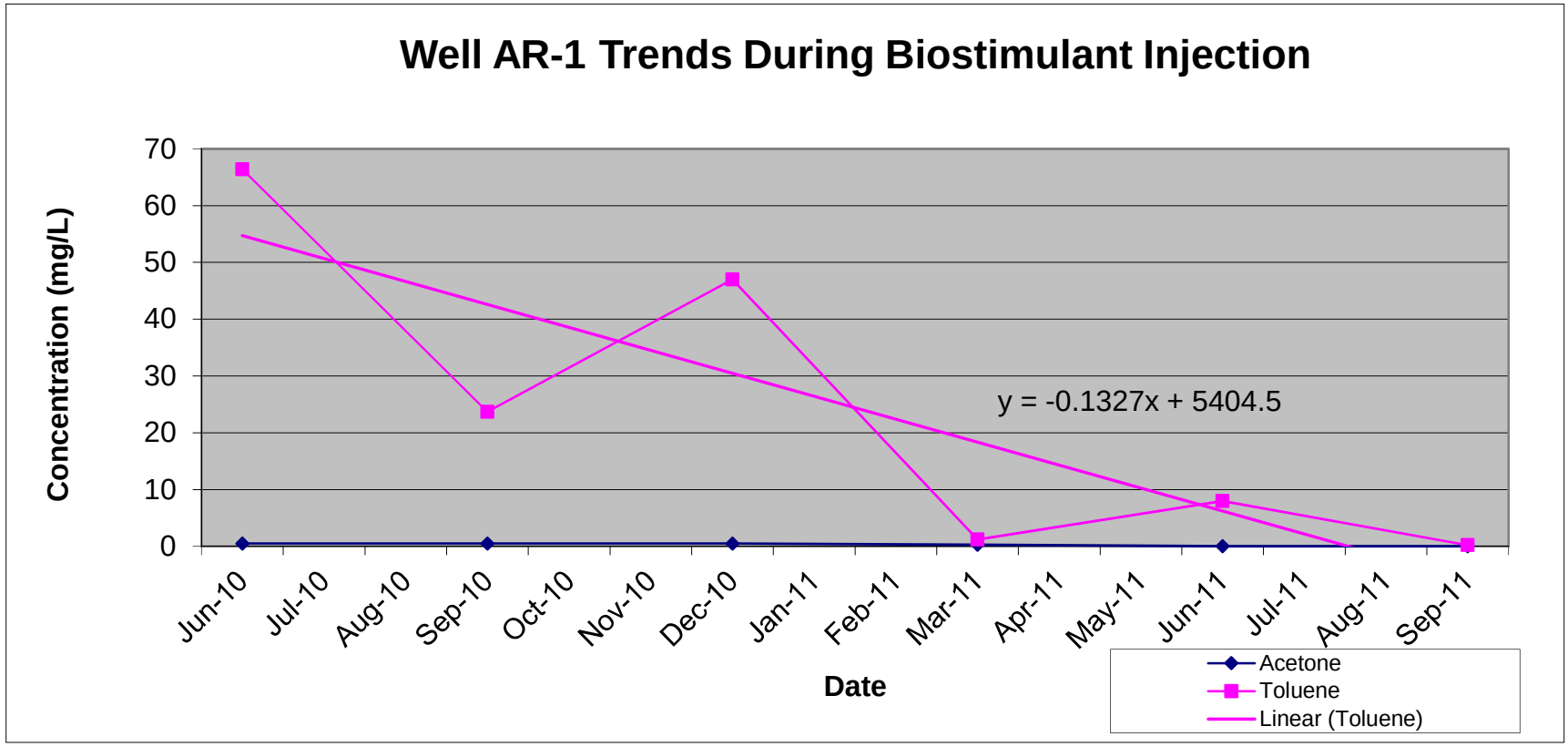
Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTF1897-02 (EV-6 - Water) - cont. Sampled: 06/16/10 13:30								
Volatile Organic Compounds by EPA Method 8260B - cont.								
Methyl tert-Butyl Ether	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Methylene Chloride	ND	RL1	ug/L	2500	500	06/23/10 16:13	SW846 8260B	10F2928
4-Methyl-2-pentanone	ND	RL1	ug/L	5000	500	06/23/10 16:13	SW846 8260B	10F2928
Naphthalene	ND	RL1	ug/L	2500	500	06/23/10 16:13	SW846 8260B	10F2928
n-Propylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Styrene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,1,1,2-Tetrachloroethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,1,2,2-Tetrachloroethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Tetrachloroethene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Toluene	**45400**		ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2,3-Trichlorobenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2,4-Trichlorobenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,1,2-Trichloroethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,1,1-Trichloroethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Trichloroethene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Trichlorofluoromethane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2,3-Trichloropropane	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,3,5-Trimethylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
1,2,4-Trimethylbenzene	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Vinyl chloride	ND	RL1	ug/L	500	500	06/23/10 16:13	SW846 8260B	10F2928
Xylenes, total	**2290**		ug/L	1500	500	06/23/10 16:13	SW846 8260B	10F2928
Surr: 1,2-Dichloroethane-d4 (63-140%)	*89 %*					*06/23/10 16:13*	*SW846 8260B*	*10F2928*
Surr: Dibromofluoromethane (73-131%)	*96 %*					*06/23/10 16:13*	*SW846 8260B*	*10F2928*
Surr: Toluene-d8 (80-120%)	*100 %*					*06/23/10 16:13*	*SW846 8260B*	*10F2928*
Surr: 4-Bromofluorobenzene (79-125%)	*88 %*					*06/23/10 16:13*	*SW846 8260B*	*10F2928*
Sample ID: NTF1897-03 (MW-4 - Water) Sampled: 06/16/10 10:48								
Volatile Organic Compounds by EPA Method 8260B								
Acetone	ND		ug/L	50.0	1	06/22/10 12:29	SW846 8260B	10F3608
Benzene	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Bromobenzene	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Bromochloromethane	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Bromodichloromethane	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Bromoform	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Bromomethane	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
2-Butanone	ND		ug/L	50.0	1	06/22/10 12:29	SW846 8260B	10F3608
sec-Butylbenzene	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
n-Butylbenzene	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
tert-Butylbenzene	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Carbon disulfide	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Carbon Tetrachloride	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Chlorobenzene	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Chlorodibromomethane	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608
Chloroethane	ND		ug/L	1.00	1	06/22/10 12:29	SW846 8260B	10F3608

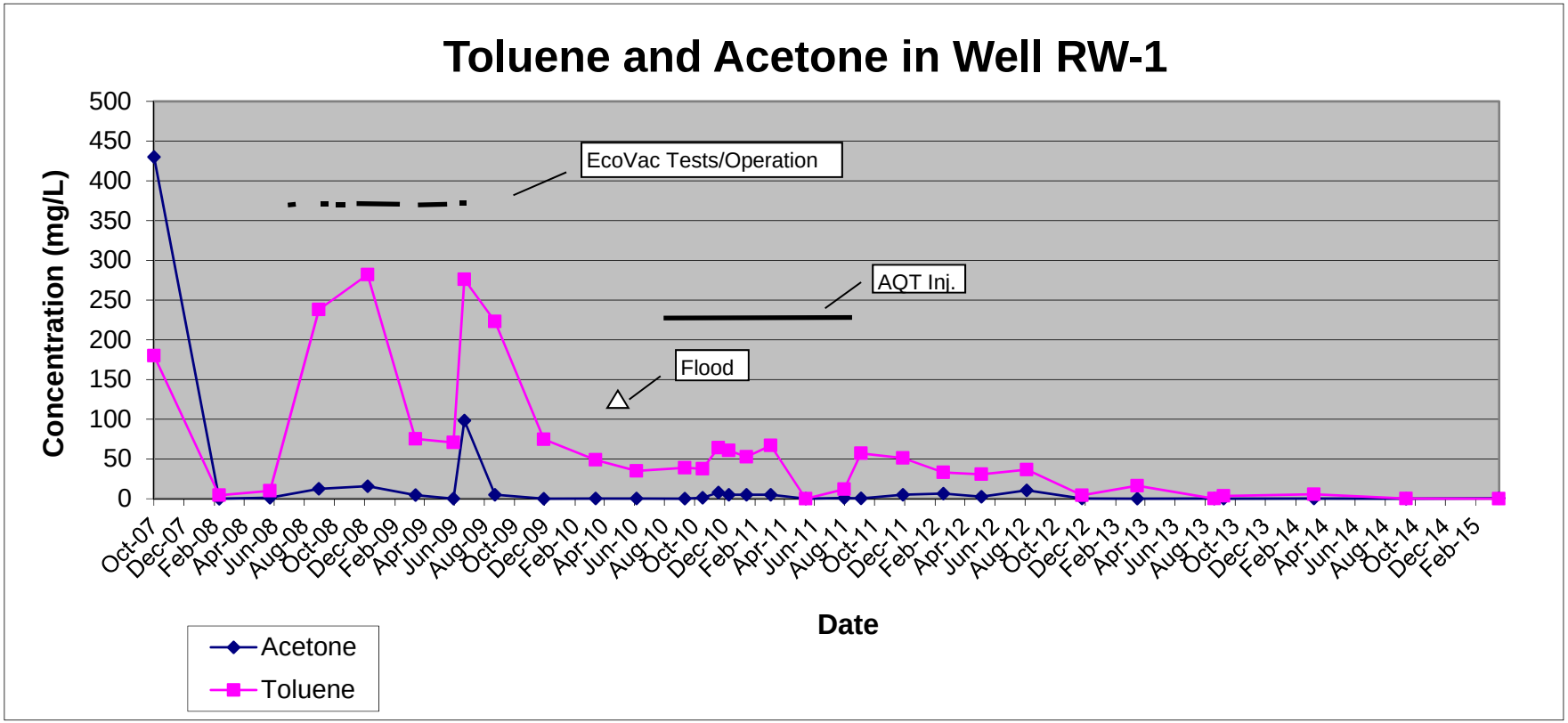
Appendix 5

Water Monitoring Point Data Charts


Toluene and Acetone in Well AR-1
Concentration (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
EcoVac Tests/Operation
AQT Inj.
Flood
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10
Apr-10
Jun-10
Aug-10
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
Oct-14
Dec-14
Feb-15
Date
Acetone
Toluene


Well AR-1 Trends - October 2007 to June 2010
Concentration (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
y = -0.3705x + 14984
10/12/2007
12/12/2007
2/12/2008
4/12/2008
6/12/2008
8/12/2008
10/12/2008
12/12/2008
2/12/2009
4/12/2009
6/12/2009
8/12/2009
10/12/2009
12/12/2009
2/12/2010
4/12/2010
6/12/2010
Date
Acetone
Toluene
Linear (Toluene)


Well AR-1 Trends During Biostimulant Injection
Concentration (mg/L)
70
60
50
40
30
20
10
0
y = -0.1327x + 5404.5
Jun-10
Jul-10
Aug-10
Sep-10
Oct-10
Nov-10
Dec-10
Jan-11
Feb-11
Mar-11
Apr-11
May-11
Jun-11
Jul-11
Aug-11
Sep-11
Date
Acetone
Toluene
Linear (Toluene)


Toluene and Acetone in Well RW-1
Concentration (mg/L)
500
450
400
350
300
250
200
150
100
50
0
EcoVac Tests/Operation
AQT Inj.
Flood
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10
Apr-10
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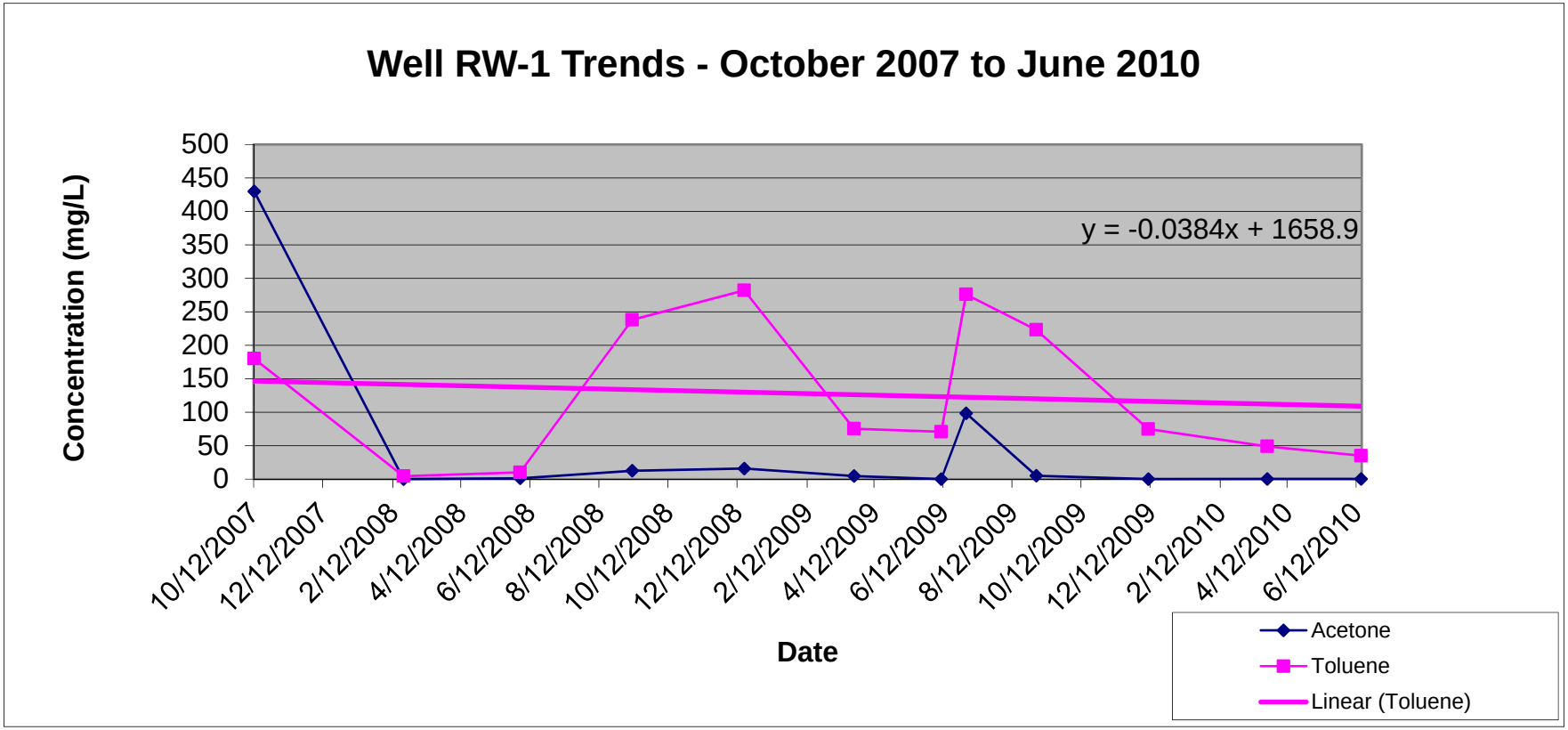
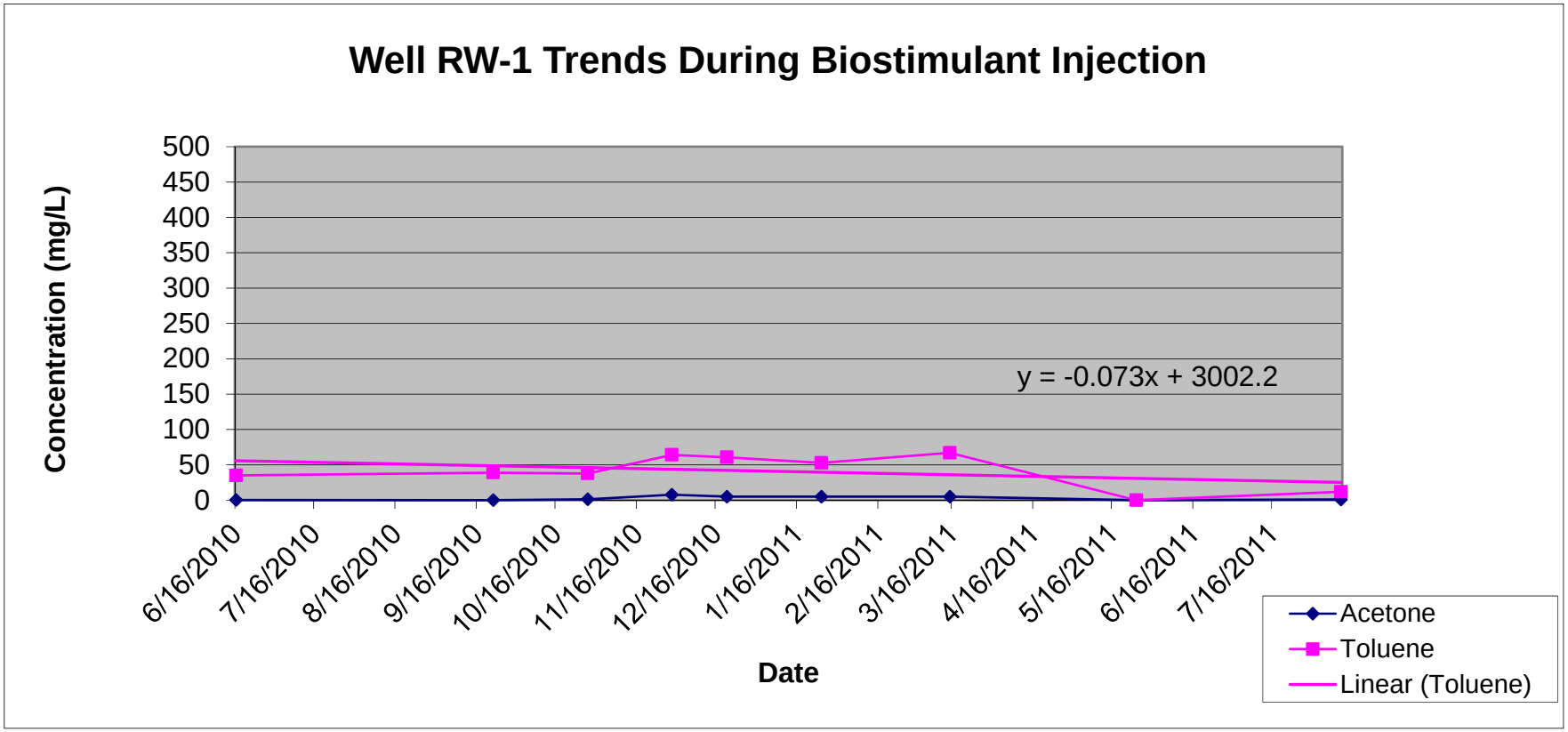
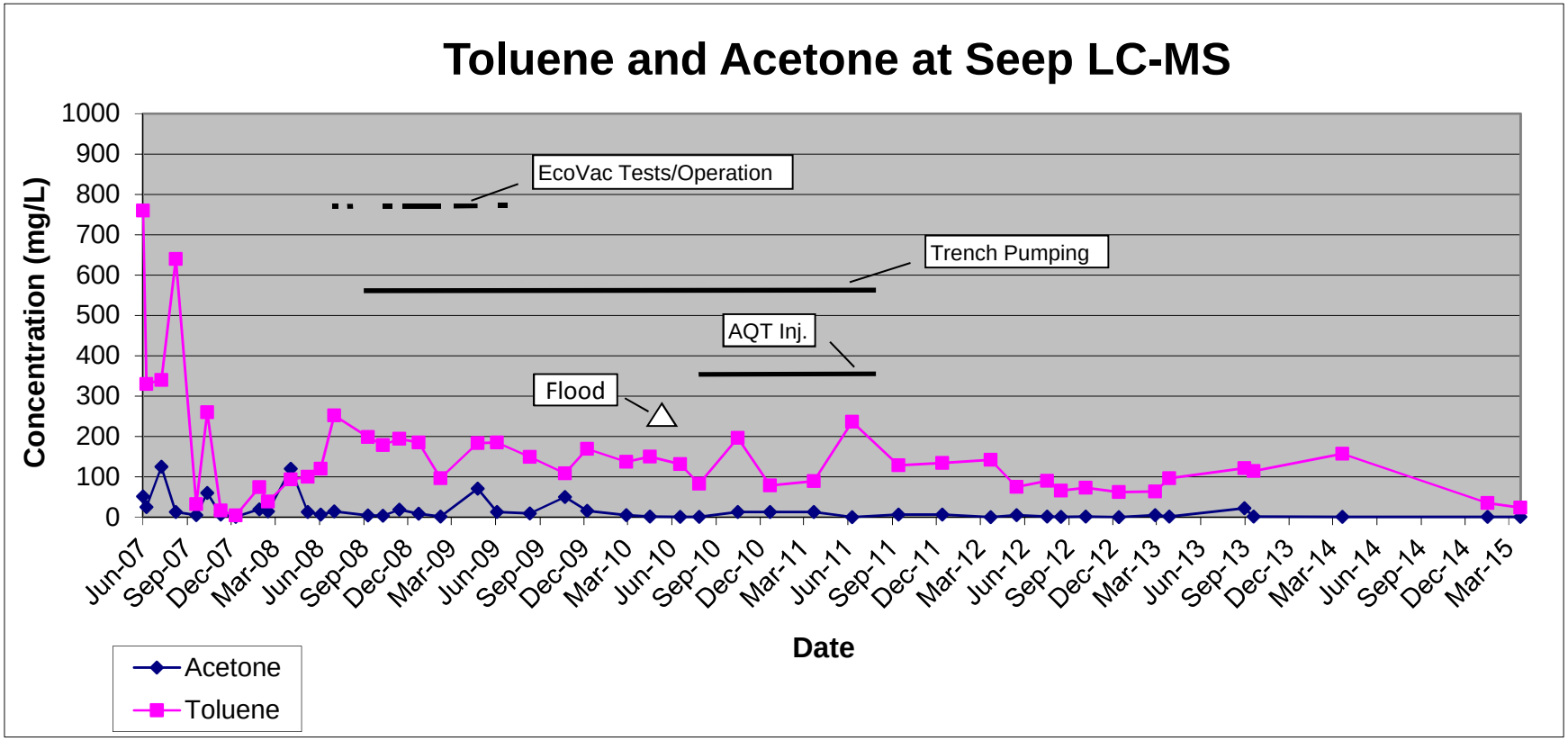
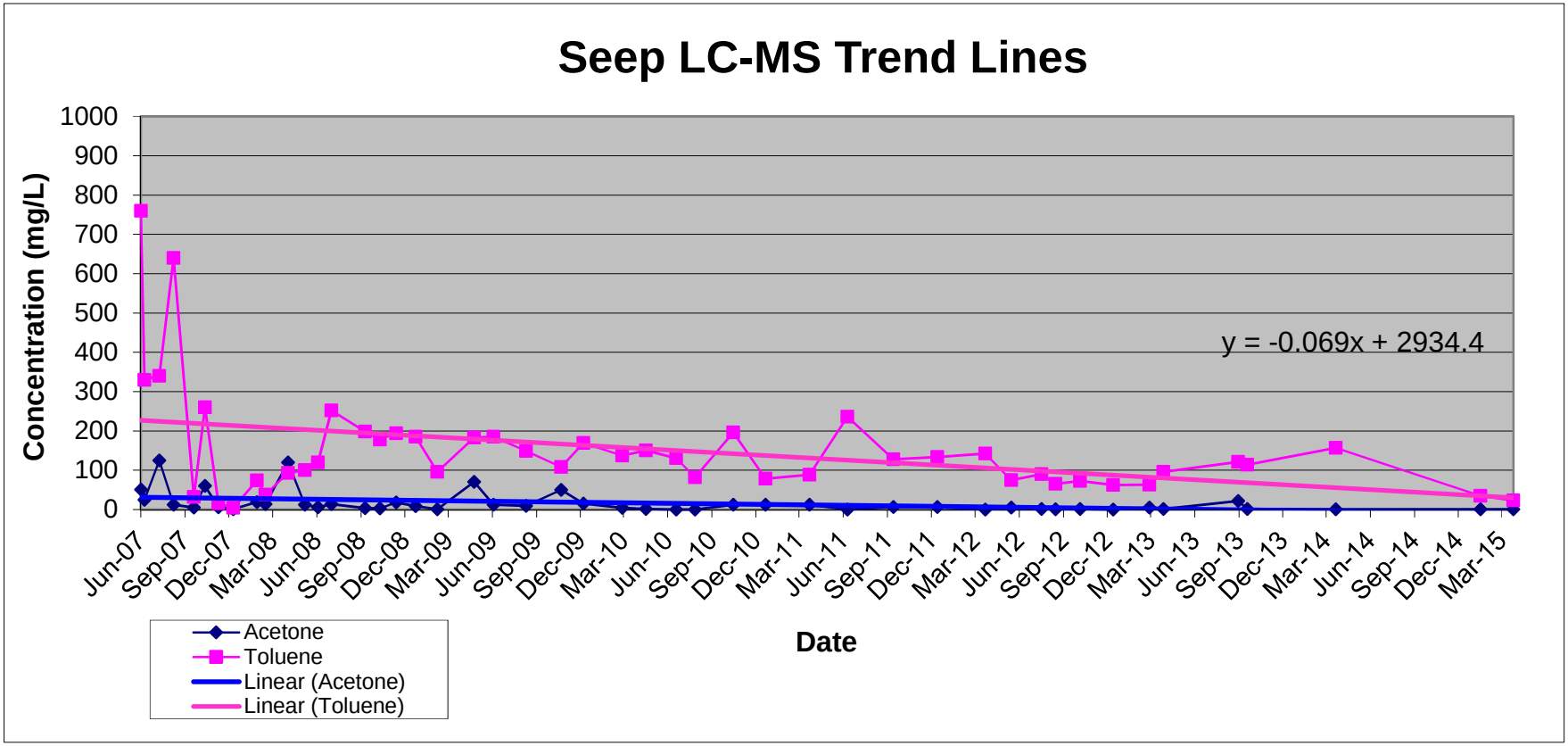
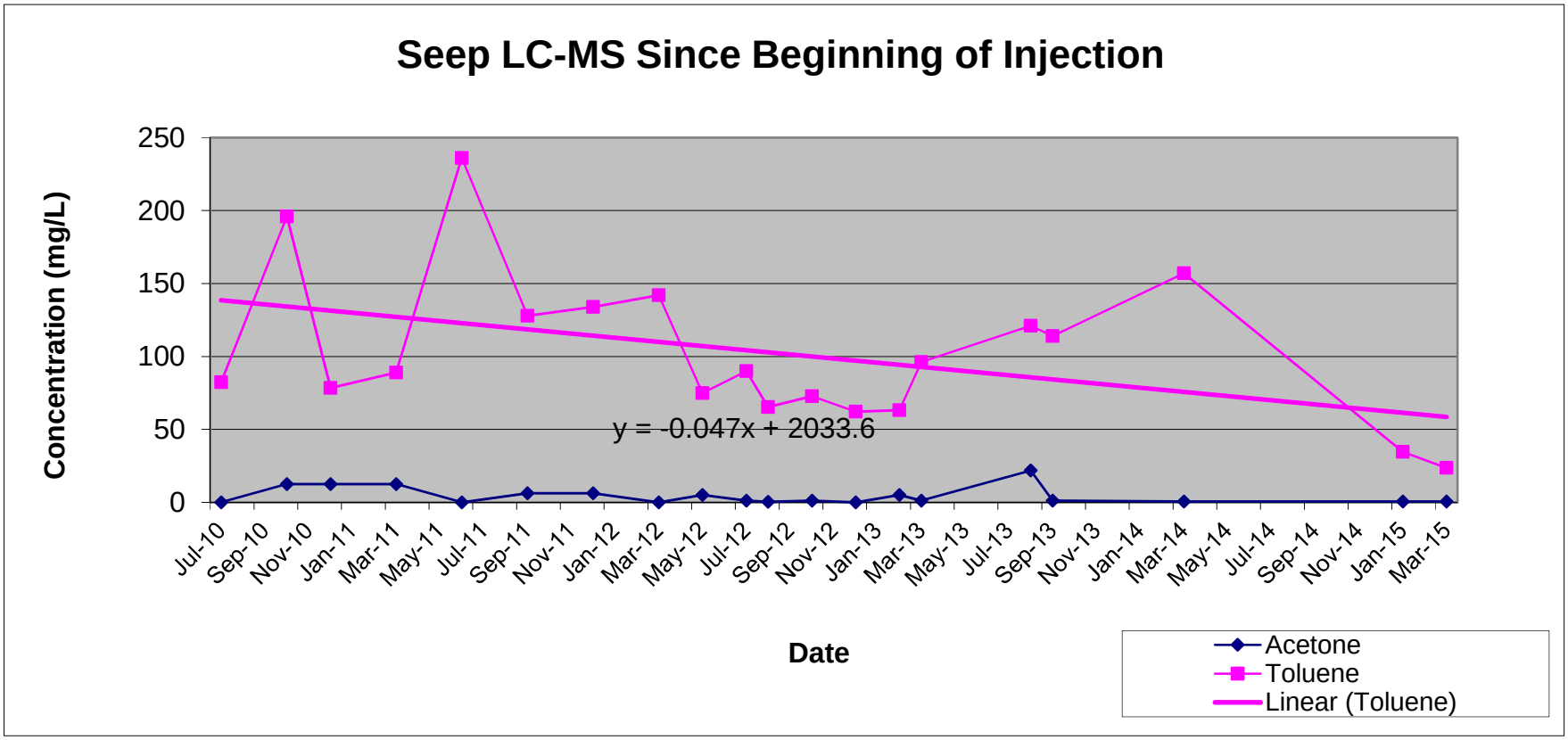
Oct-10
Dec-10
Feb-11
Apr-11
Jun-11
Aug-11
Oct-11
Dec-11
Feb-12
Apr-12
Jun-12
Aug-12
Oct-12
Dec-12
Feb-13
Apr-13
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
Oct-14
Dec-14
Feb-15
Date
Acetone
Toluene

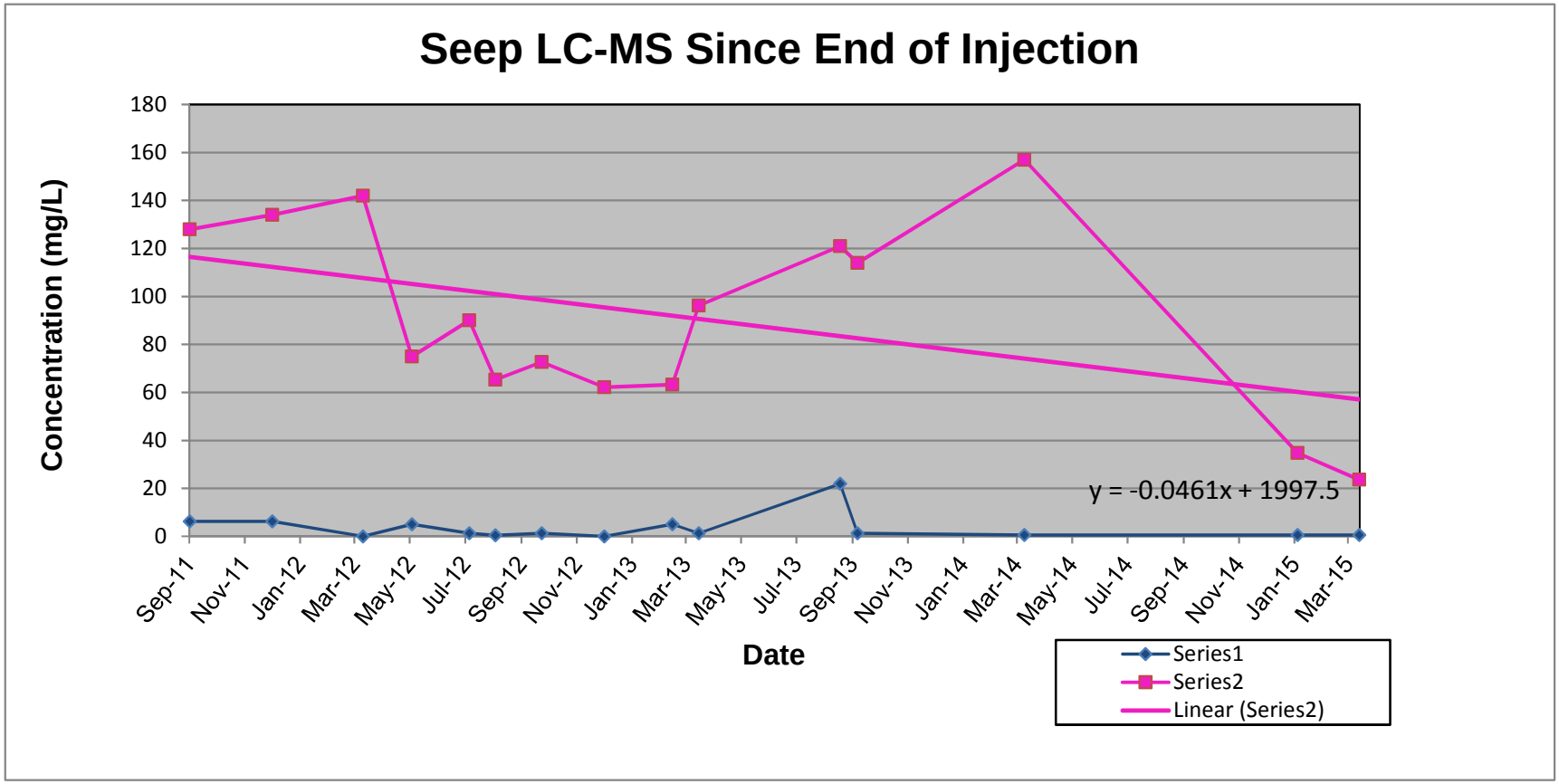

Well RW-1 Trends - October 2007 to June 2010
Concentration (mg/L)
500
450
400
350
300
250
200
150
100
50
0
y = -0.0384x + 1658.9
10/12/2007
12/12/2007
2/12/2008
4/12/2008
6/12/2008
8/12/2008
10/12/2008
12/12/2008
2/12/2009
4/12/2009
6/12/2009
8/12/2009
10/12/2009
12/12/2009
2/12/2010
4/12/2010
6/12/2010
Date
Acetone
Toluene
Linear (Toluene)

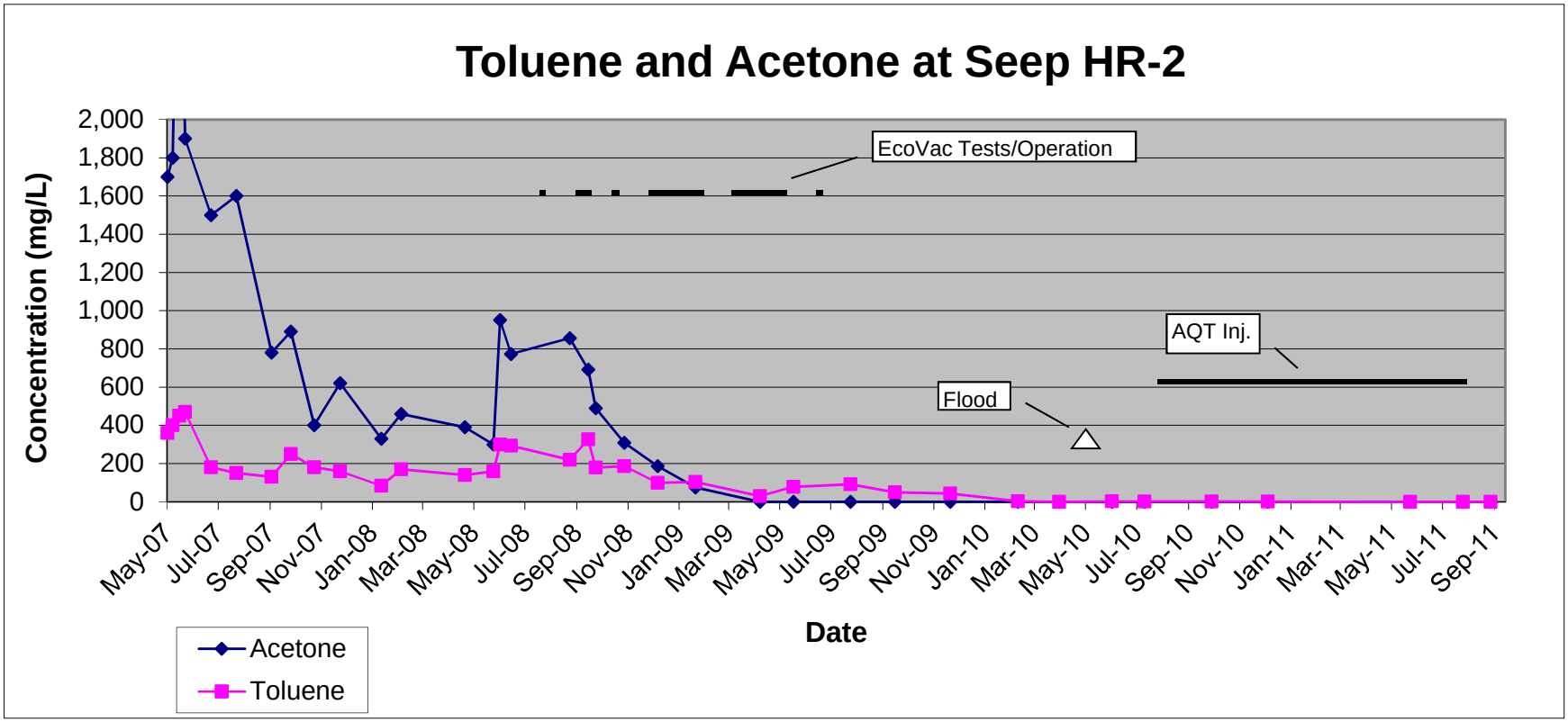

Well RW-1 Trends During Biostimulant Injection
Concentration (mg/L)
500
450
400
350
300
250
200
150
100
50
0
y = -0.073x + 3002.2
6/16/2010
7/16/2010
8/16/2010
9/16/2010
10/16/2010
11/16/2010
12/16/2010
1/16/2011
2/16/2011
3/16/2011
4/16/2011
5/16/2011
6/16/2011
7/16/2011
Date
Acetone
Toluene
Linear (Toluene)


Toluene and Acetone at Seep LC-MS
Concentration (mg/L)
1000
900
800
700
600
500
400
300
200
100
0
EcoVac Tests/Operation
Trench Pumping
AQT Inj.
Flood
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Date
Acetone
Toluene


Seep LC-MS Trend Lines
Concentration (mg/L)
1000
900
800
700
600
500
400
300
200
100
0
y = -0.069x + 2934.4
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Date
Acetone
Toluene
Linear (Acetone)
Linear (Toluene)


Seep LC-MS Since Beginning of Injection
Concentration (mg/L)
250
200
150
100
50
0
y = -0.047x + 2033.6
Jul-10
Sep-10
Nov-10
Jan-11
Mar-11
May-11
Jul-11
Sep-11
Nov-11
Jan-12
Mar-12
May-12
Jul-12
Sep-12
Nov-12
Jan-13
Mar-13
May-13
Jul-13
Sep-13
Nov-13
Jan-14
Mar-14
May-14
Jul-14
Sep-14
Nov-14
Jan-15
Mar-15
Date
Acetone
Toluene
Linear (Toluene)


Seep LC-MS Since End of Injection
Concentration (mg/L)
180
160
140
120
100
80
60
40
20
0
Sep-11
Nov-11
Jan-12
Mar-12
May-12
Jul-12
Sep-12
Nov-12
Jan-13
Mar-13
May-13
Jul-13
Sep-13
Nov-13
Jan-14
Mar-14
May-14
Jul-14
Sep-14
Nov-14
Jan-15
Mar-15
Date
y = -0.0461x + 1997.5
Series1
Series2
Linear (Series2)


Toluene and Acetone at Seep HR-2
Concentration (mg/L)
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
EcoVac Tests/Operation
AQT Inj.
Flood
May-07
Jul-07
Sep-07
Nov-07
Jan-08
Mar-08
May-08
Jul-08
Sep-08
Nov-08
Jan-09
Mar-09
May-09
Jul-09
Sep-09
Nov-09
Jan-10
Mar-10
May-10
Jul-10
Sep-10
Nov-10
Jan-11
Mar-11
May-11
Jul-11
Sep-11
Date
Acetone
Toluene

Appendix 6

Report of Long-Term Soil-Gas Monitoring

TriAD

207 Donelson Pike
Suite 200
Nashville, TN 37214
615-889-6888
fax 615-889-4004

ENVIRONMENTAL CONSULTANTS

May 8, 2014

Ms. Ashley Holt, P.G., Manager
State Remediation Program
Division of Remediation
Tennessee Department of Environment and Conservation
William R. Snodgrass TN Tower
312 Rosa L. Parks Avenue, 14th Floor
Nashville, Tennessee, 37243

Re: Report of Long-Term Soil-Gas Monitoring: Fourth Monitoring Event
ELMCO Solvent Release Response
Franklin, Tennessee
TriAD Project No. 07-ELM01-01

Dear Ms. Holt:

On behalf of the Egyptian Lacquer Manufacturing Company (ELMCO) and through its attorneys Stites & Harbison, PLLC, TriAD Environmental Consultants, Inc., (TriAD) is submitting this letter report describing the most recent monitoring of a long-term soil-gas monitoring probe on Daniels Drive in Franklin, Tennessee. This work was performed in general accordance with a Work Plan submitted by TriAD to the Tennessee Department of Environment and Conservation (TDEC) on November 8, 2012. The Work Plan was approved by TDEC in a letter from Ahmet Bulbulkaya dated January 31, 2013, and was later modified via email on May 22, 2013, to allow relocation of the probe to the street right-of-way between 124 and 126 Daniels Drive. The work is designed to determine if organic vapors originating from groundwater contaminated by ELMCO's solvent release are present in the soil gas under the Daniels Drive cul-de-sac, and to determine whether such organic vapors, if present, are decreasing in concentration as are the concentrations of organic compounds in underlying groundwater. TDEC has previously determined that there is no unacceptable risk posed by organic vapors under Daniels Drive. The long-term soil-gas monitoring is designed to verify that this lack of risk continues and will continue into the future.

This is the fourth report of the long-term monitoring. The first report, dated July 2, 2013, describes the installation of the soil-gas monitoring probe and its initial monitoring, which took place on May 31, 2013. The initial report should be referenced for details regarding the location and construction of the probe. Subsequent reports have

documented sampling events performed on September 9 and December 19, 2013. This report describes the performance and results of the fourth monitoring event, performed on April 2, 2014.

Sample Collection

On March 31, 2014, an attempt was made to use the permanent monitoring point to collect a soil-gas sample in general accordance with the procedures set forth in the Tennessee Division of Underground Storage Tanks *Technical Guidance Document 018 (TGD-018): Requirements for Conducting Soil Gas Surveys*. As required by TGD-018, a sample train using a SUMMA canister was set up, vacuum tested, then purged of three volumes of air prior to collecting a sample. Near the end of the purging, however, it was discovered that water had accumulated in the probe and this water was drawn to the surface in the sampling train. As a result of the presence of this water, and as required by the sampling methodology, no sample was collected.

The accumulation of water in the soil-gas probe during this event was similar to that encountered during the second and third long-term events in September and December 2013. In September, the presence of water in the probe was discussed with TDEC personnel Chris Lagan and Ahmet Bulbulkaya, and it was decided that TriAD would attempt to remove the accumulated water, wait several days, and try again to collect a soil-gas sample. This procedure was also followed during the December and March events. During the March event, the first purging of water occurred the same day water was discovered, March 31. At that time, approximately 20 ml of water were purged using a hand-powered peristaltic pump. The water was initially gray colored and had a slight septic odor. On April 1, TriAD personnel again used the peristaltic pump and recovered an additional approximately 5 ml of water.

On April 2, 2014, a soil-gas sample was collected from the permanent probe in general accordance with the procedures set forth in TGD-018, including the use of an isopropanol tracer to allow evaluation of possible short-circuiting between the sample probe screen and surface air. Prior to collection, TriAD personnel discussed the timing of the sampling with TDEC personnel. Approximately 24 hours passed between the final purge of water from the probe and the collection of the soil-gas sample. Inclement weather was expected on April 3, and TriAD and TDEC agreed that collection of the sample after a 24-hour wait time was appropriate, rather than the longer time allowed prior to the September and December events. No water was observed in the sample train during purging and collection of the sample on April 2. A Soil-Gas Sampling Log is included as an attachment.

The canister with the collected soil-gas sample was transported following chain-of-custody procedures to Environmental Science Corporation in Mt. Juliet, Tennessee, for laboratory analysis of the full list of volatile organic compounds (VOCs) by U.S. EPA Method TO-15 (which includes benzene, toluene, ethylbenzene, and xylenes (BTEX), and isopropanol). This analysis represents an expanded list of VOCs compared with

the previous samples, and was requested because of the anomalous results observed during the December 2013 event. Percent oxygen and carbon dioxide were analyzed by ASTM Method D1946. The resulting laboratory report is attached.

Analytical Results

During the April 2014 soil-gas monitoring event, benzene, ethylbenzene, toluene, and xylenes were not detected at the following laboratory reporting limits:

Benzene:	<0.40 ppbv (<1.3 ug/m^3)
Ethylbenzene:	<0.40 ppbv (<1.7 ug/m^3)
Toluene:	<0.40 ppbv (<1.5 ug/m^3)
Xylenes:	<0.80/<0.40 ppbv (<3.5/<1.7 ug/m^3)

The xylenes results are divided between m&p-xylene and o-xylene. The isopropanol tracer was detected at a concentration of 3,400 ug/m^3, significantly less than the 10 percent by volume concentration at which a short-circuit to the ground surface would generally be suspected. Also during the April 2014 event, oxygen and carbon dioxide were reported at concentrations of 11 percent and 2.5 percent, respectively.

Of the additional VOCs analyzed, the following were detected:

Acetone:	1,700 ppbv (4,000 ug/m^3)
Carbon disulfide:	0.86 ppbv (2.7 ug/m^3)
n-Hexane:	0.54 ppbv (1.9 ug/m^3)
Methylene chloride:	2.0 ppbv (6.9 ug/m^3)
2-Butanone (MEK):	3.9 ppbv (12 ug/m^3)
Methyl methacrylate:	0.51 ppbv (2.1 ug/m^3)
Tetrachloroethene:	2.4 ppbv (16 ug/m^3)

Data Evaluation

Previous investigations of potential organic vapor intrusion into the indoor air of residences along Daniels Drive were performed by ELMCO consultants, TDEC contractors, and TDEC (assisted by the Tennessee Department of Health). These investigations, which included three episodes of indoor-air testing and a January 2009 event of soil-gas sampling and analysis from multiple locations along Daniels Drive, resulted in TDEC's determination that there was no unacceptable risk to residents of Daniels Drive resulting from organic vapor migration through the soils overlying the contaminated groundwater. This determination was formalized in a *Health Consultation* prepared by the Tennessee Department of Health on November 22, 2010.

In its more recent (2012) deliberations, TDEC confirmed that the historical data justified a determination of no risk, but required long-term soil gas monitoring to try to verify that soil-gas concentrations were not increasing over time. The purpose of the current, long-

term data collection and evaluation is thus to determine whether or not there is a discernible trend in the concentrations of VOCs – attributable to ELMCO's solvent release – in soil gas overlying the principal groundwater migration route between the ELMCO facility and seeps along Liberty Creek. It is important to note that toluene would be by far the most prevalent VOC in vapors attributable to the ELMCO solvent release, as it is in groundwater and surface water samples and was in the floating free product phase when it was present. Benzene, ethylbenzene, xylenes, and acetone may also be present in soil gas, but would be expected at much lower concentrations than toluene. While a major component of the released solvents, monitoring has shown that highly water-soluble acetone is no longer present at significant concentrations in migrating groundwater.

The attached Table 1 shows soil-gas BTEX, isopropanol, oxygen, and carbon dioxide data collected during the four long-term monitoring events. The BTEX data are presented graphically in the attached Figure 1. The results of the April 2014 event show a decrease compared to the results of the previous three events, even if the anomalously high xylene data from December 2013 are omitted. Further, the concentration of toluene shows a declining trend over the four events. It is important to note that, as described in the Work Plan, there is often significant variability in soil-gas data collected at different times from a single permanent monitoring probe, and that significant increases or decreases from one event to another are not unusual. It is also important to note that, even with the increase in concentrations measured by the long-term monitoring to date, the highest concentration of toluene detected during the long-term monitoring is lower than the lowest detected concentration of toluene found in the January 2009 study. There is thus a long-term decline in toluene concentrations evident when all soil-gas samples collected from beneath Daniels Drive are considered.

Because of the anomalous December 2013 results, TriAD requested that the April 2014 sample be analyzed for the full TO-15 list of VOCs. The detection of the seven additional VOCs listed above is not surprising, as all but one of these compounds (carbon disulfide) were detected during the 2009 soil-gas study. In fact, the 2009 study found significantly more VOCs than were identified in the April 2014 sample. These VOCs are not indicative of any particular source or sources of contamination, but likely represent general background concentrations of man-made substances in the area (possibly emanating from the sanitary sewer line along Daniels Drive).

Because the goal of the long-term soil-gas monitoring is only to establish whether a long-term trend in soil-gas concentrations exists, the data are not formally being compared to health-based risk levels. Nevertheless, we note that all detected concentrations of BTEX are well below the Tennessee generic, risk-based screening concentrations that are typically used to identify when soil gas containing BTEX constituents might pose a vapor intrusion risk.

Planned Further Efforts

The fourth long-term soil-gas monitoring event represents the final planned event for this effort. As stated in the approved Work Plan, "If, at the conclusion of one year of monitoring there is no evidence of a significant increasing trend in the data, and TDDC agrees that no evidence of unacceptable risk to local residents exists, sampling will be terminated." ELMCO believes that the data collected over the past year once again demonstrate that there is no unacceptable vapor intrusion risk to local residents. We look forward to TDEC's review of the data and to discussing any concerns regarding potential risk to local residents. If TDEC agrees with ELMCO's finding of no unacceptable risk, ELMCO is prepared to proceed with the abandonment of the soil-gas monitoring probe as described in the approved Work Plan.

As always, please feel free to contact me or Dwight Hinch if you have any questions or need further information concerning this report.

Sincerely,

TriAD Environmental Consultants, Inc.

Chris Scott, P.G.
Senior Hydrogeologist

Attachments (Table 1, Figure 1, Sampling Log, Laboratory Report)

Copy w/att: Mr. Ahmet Bulbulkaya
Mr. Kerry Mattox
Mr. Bill Penny

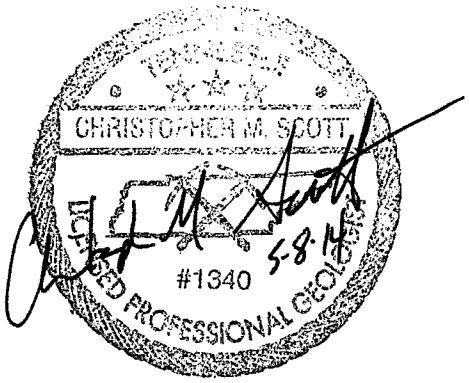
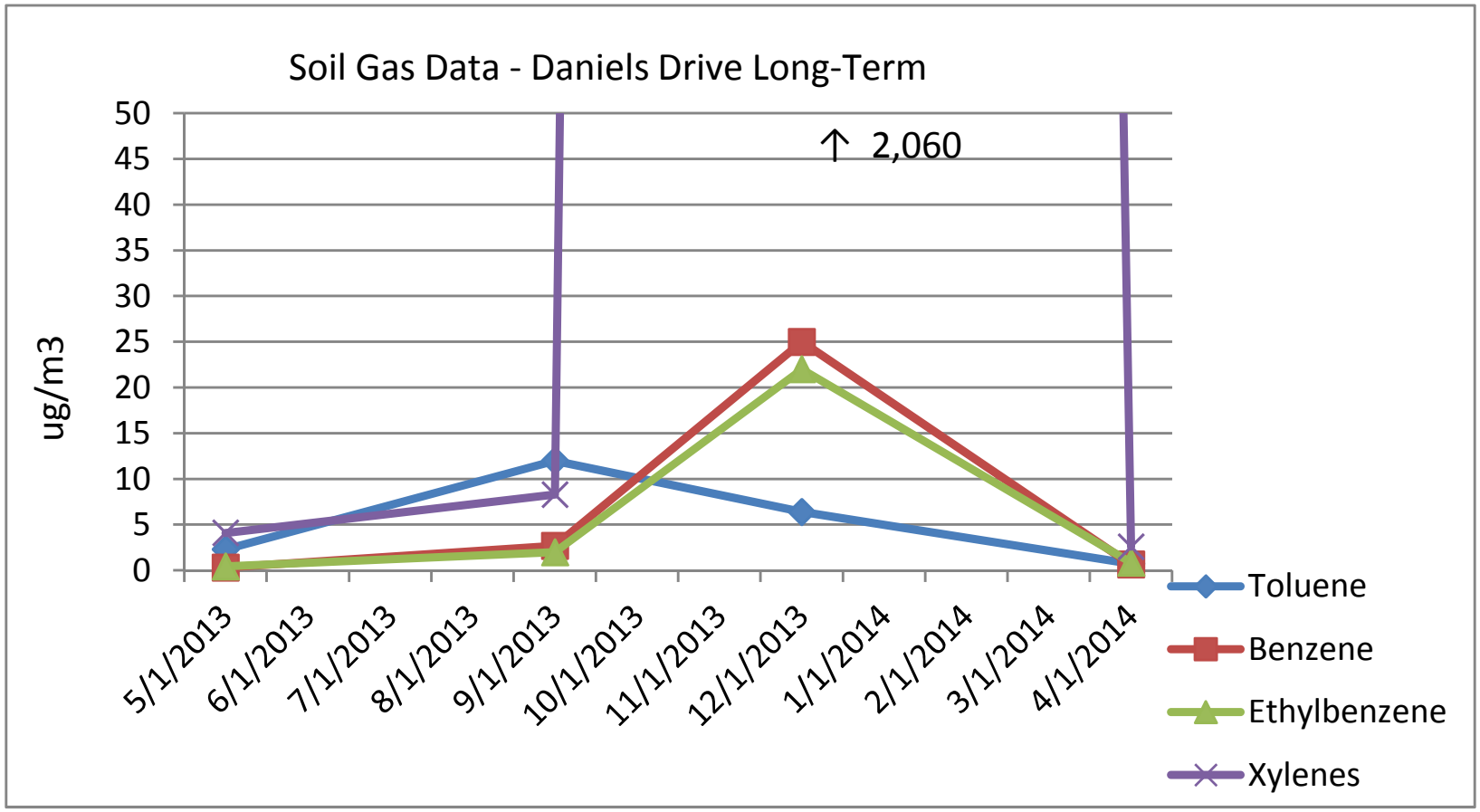


TABLE 1
SOIL-GAS CONCENTRATIONS - DANIELS DRIVE LONG-TERM MONITORING
EGYPTIAN LACQUER MANUFACTURING COMPANY SOLVENT RELEASE
All Concentrations in ug/m^3 Unless Otherwise Noted

Constituent	5/31/2013	9/9/2013	12/19/2013	4/2/2014
Toluene	2.3	12	6.4	<1.5
Benzene	<0.64	2.7	25	<1.3
Ethylbenzene	<0.87	2.0	22.0	<1.7
Xylenes (Total)	4.1	8.3	2060	<3.5/<1.7 [1]
Isopropanol	<3.1	<6.1	160	3400
Oxygen (%)	7.5	2	11	11
Carbon Dioxide (%)	4.3	7.2	1.7	2.5

[1] - Reported as m&p-xylene/o-xylene


Soil Gas Data - Daniels Drive Long-Term
ug/m3
50
45
40
35
30
25
20
15
10
5
0
↑ 2,060
5/1/2013
6/1/2013
7/1/2013
8/1/2013
9/1/2013
10/1/2013
11/1/2013
12/1/2013
1/1/2014
2/1/2014
3/1/2014
4/1/2014
Toluene
Benzene
Ethylbenzene
Xylenes

SOIL GAS SAMPLING LOG

Site Name: ELMCO Project No.: 07-ELM01-01

Date: 4/2/14 Personnel: C. Scott/Kerry Mattox

Probe/Sample Point Number/Description: 124/126 Daniels Drive

Purge Volume Calculations Tube Size (ID): 1/8 in. **1/4 in.**

Tube Length, Probe (in): 84 Tube Length, Sample Train (in.): 48

Total Volume, Probe and Train (in^3): 6.5 (106.5 mL)

Total Volume for Purge (3 x Total Volume): 19.5 in^3 (319.5 mL)

Purge Method **Hand Pump** Electric Pump

Vacuum Test (2 min) Initial (in Hg): 11.75 Final (in Hg): 11.75

Sample Data

SUMMA Size: **1 L** 6 L Other _____

Initial SUMMA vacuum (in Hg): 30.0 Final SUMMA vacuum (in Hg): 6

Sample Start Time: 1521 Sample End Time: 1526

Regulator Number/Sample Rate: N/A (200 mL/min)

Tracer Type: **Isopropanol** Other _____

Atmospheric Conditions

Temperature: 79°F Pressure: 30.00 in Hg, Falling

Wind: SSW @ 10, no gusts Humidity: 45%

Precipitation in Previous 48 Hours: 0 in.

Notes: _____

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Chris Scott
TriAD Environmental Consultants
207 Donelson Pike Suite 200
Nashville, TN 37214

Report Summary

Friday April 11, 2014

Report Number: L691640
Samples Received: 04/03/14
Client Project: 07-ELM01-01

Description: ELMCO - Air Testing

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Terrie Fudge

Terrie Fudge, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Chris Scott
TriAD Environmental Consultants
207 Donelson Pike Suite 200
Nashville, TN 37214

April 11, 2014

ESC Sample # : L691640-01

Site ID :

Project # : 07-ELM01-01

Date Received : April 03, 2014
Description : ELMCO - Air Testing

Sample ID : SG-1 5-6 FT

Collected By : Chris Scott
Collection Date : 04/02/14 15:26

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	312.	740.	1700	4000	TO-15	04/08/14	250
Allyl chloride	107-05-1	76.53	0.400	1.30	< 0.40	< 1.3	TO-15	04/07/14	2
Benzene	71-43-2	78.1	0.400	1.30	< 0.40	< 1.3	TO-15	04/07/14	2
Benzyl Chloride	100-44-7	127	0.400	2.10	< 0.40	< 2.1	TO-15	04/07/14	2
Bromodichloromethane	75-27-4	164	0.400	2.70	< 0.40	< 2.7	TO-15	04/07/14	2
Bromoform	75-25-2	253	1.20	12.0	< 1.2	< 12.	TO-15	04/07/14	2
Bromomethane	74-83-9	94.9	0.400	1.60	< 0.40	< 1.6	TO-15	04/07/14	2
1,3-Butadiene	106-99-0	54.1	4.00	8.90	< 4.0	< 8.9	TO-15	04/07/14	2
Carbon disulfide	75-15-0	76.1	0.400	1.20	0.86	2.7	TO-15	04/07/14	2
Carbon tetrachloride	56-23-5	154	0.400	2.50	< 0.40	< 2.5	TO-15	04/07/14	2
Chlorobenzene	108-90-7	113	0.400	1.80	< 0.40	< 1.8	TO-15	04/07/14	2
Chloroethane	75-00-3	64.5	0.400	1.10	< 0.40	< 1.1	TO-15	04/07/14	2
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	04/07/14	2
Chloromethane	74-87-3	50.5	0.400	0.830	< 0.40	< 0.83	TO-15	04/07/14	2
2-Chlorotoluene	95-49-8	126	0.400	2.10	< 0.40	< 2.1	TO-15	04/07/14	2
Cyclohexane	110-82-7	84.2	0.400	1.40	< 0.40	< 1.4	TO-15	04/07/14	2
Dibromochloromethane	124-48-1	208	0.400	3.40	< 0.40	< 3.4	TO-15	04/07/14	2
1,2-Dibromoethane	106-93-4	188	0.400	3.10	< 0.40	< 3.1	TO-15	04/07/14	2
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	04/07/14	2
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	< 0.40	< 2.4	TO-15	04/07/14	2
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	< 0.40	< 2.4	TO-15	04/07/14	2
1,2-Dichloroethane	107-06-2	99	0.400	1.60	< 0.40	< 1.6	TO-15	04/07/14	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	04/07/14	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	04/07/14	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	04/07/14	2
trans-1,2-Dichloroethene	156-60-5	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	04/07/14	2
1,2-Dichloropropane	78-87-5	113	0.400	1.80	< 0.40	< 1.8	TO-15	04/07/14	2
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.80	< 0.40	< 1.8	TO-15	04/07/14	2
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.80	< 0.40	< 1.8	TO-15	04/07/14	2
1,4-Dioxane	123-91-1	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	04/07/14	2
Ethanol	64-17-5	46.1	1.26	2.40	< 1.3	< 2.4	TO-15	04/07/14	2
Ethylbenzene	100-41-4	106	0.400	1.70	< 0.40	< 1.7	TO-15	04/07/14	2
4-Ethyltoluene	622-96-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	04/07/14	2
Trichlorofluoromethane	75-69-4	137.4	0.400	2.20	< 0.40	< 2.2	TO-15	04/07/14	2
Dichlorodifluoromethane	75-71-8	120.92	0.400	2.00	< 0.40	< 2.0	TO-15	04/07/14	2
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.400	3.10	< 0.40	< 3.1	TO-15	04/07/14	2
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	< 0.40	< 2.8	TO-15	04/07/14	2
Heptane	142-82-5	100	0.400	1.60	< 0.40	< 1.6	TO-15	04/07/14	2
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.0	< 1.3	< 13.	TO-15	04/07/14	2
n-Hexane	110-54-3	86.2	0.400	1.40	0.54	1.9	TO-15	04/07/14	2
Isopropylbenzene	98-82-8	120.2	0.400	2.00	< 0.40	< 2.0	TO-15	04/07/14	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	2.0	6.9	TO-15	04/07/14	2
Methyl Butyl Ketone	591-78-6	100	2.50	10.0	< 2.5	< 10.	TO-15	04/07/14	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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Est. 1970

REPORT OF ANALYSIS

Mr. Chris Scott
TriAD Environmental Consultants
207 Donelson Pike Suite 200
Nashville, TN 37214

April 11, 2014

ESC Sample # : L691640-01

Site ID :

Project # : 07-ELM01-01

Date Received : April 03, 2014
Description : ELMCO - Air Testing

Sample ID : SG-1 5-6 FT

Collected By : Chris Scott
Collection Date : 04/02/14 15:26

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK)	78-93-3	72.1	2.50	7.40	3.9	12.	TO-15	04/07/14	2
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	2.50	10.0	< 2.5	< 10.	TO-15	04/07/14	2
Methyl methacrylate	80-62-6	100.12	0.400	1.60	0.51	2.1	TO-15	04/07/14	2
MTBE	1634-04-4	88.1	0.400	1.40	< 0.40	< 1.4	TO-15	04/07/14	2
Naphthalene	91-20-3	128	1.26	6.60	< 1.3	< 6.6	TO-15	04/07/14	2
2-Propanol	67-63-0	60.1	312.	770.	1400	3400	TO-15	04/08/14	250
Propene	115-07-1	42.1	0.800	1.40	< 0.80	< 1.4	TO-15	04/07/14	2
Styrene	100-42-5	104	0.400	1.70	< 0.40	< 1.7	TO-15	04/07/14	2
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.70	< 0.40	< 2.7	TO-15	04/07/14	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	2.4	16.	TO-15	04/07/14	2
Tetrahydrofuran	109-99-9	72.1	0.400	1.20	< 0.40	< 1.2	TO-15	04/07/14	2
Toluene	108-88-3	92.1	0.400	1.50	< 0.40	< 1.5	TO-15	04/07/14	2
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.30	< 1.3	< 9.3	TO-15	04/07/14	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	04/07/14	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	04/07/14	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	04/07/14	2
1,2,4-Trimethylbenzene	95-63-6	120	0.400	2.00	< 0.40	< 2.0	TO-15	04/07/14	2
1,3,5-Trimethylbenzene	108-67-8	120	0.400	2.00	< 0.40	< 2.0	TO-15	04/07/14	2
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.90	< 0.40	< 1.9	TO-15	04/07/14	2
Vinyl chloride	75-01-4	62.5	0.400	1.00	< 0.40	< 1.0	TO-15	04/07/14	2
Vinyl Bromide	593-60-2	106.95	0.400	1.70	< 0.40	< 1.7	TO-15	04/07/14	2
Vinyl acetate	108-05-4	86.1	0.400	1.40	< 0.40	< 1.4	TO-15	04/07/14	2
m&p-Xylene	1330-20-7	106	0.800	3.50	< 0.80	< 3.5	TO-15	04/07/14	2
o-Xylene	95-47-6	106	0.400	1.70	< 0.40	< 1.7	TO-15	04/07/14	2
1,4-Bromofluorobenzene	460-00-4				93.8	% Rec.	TO-15	04/07/14	2

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Mr. Chris Scott
TriAD Environmental Consultants
207 Donelson Pike Suite 200
Nashville, TN 37214

April 11, 2014

ESC Sample # : L691640-02

Site ID :

Project # : 07-ELM01-01

Date Received : April 03, 2014
Description : ELMCO - Air Testing

Sample ID : SG-1 5-6 FT

Collected By : Chris Scott
Collection Date : 04/02/14 15:26

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Fixed Gases						
Oxygen	11.	2.0	%	D1946	04/09/14	1
Carbon Dioxide	2.5	0.50	%	D1946	04/09/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Summary of Remarks For Samples Printed
04/11/14 at 12:42:41

TSR Signing Reports: 064
R5 - Desired TAT

Sample: L691640-01 Account: TRIADENV Received: 04/03/14 10:35 Due Date: 04/14/14 00:00 RPT Date: 04/11/14 12:42
1liter summas; uninvoiced 755850 tf 4/10/14
Sample: L691640-02 Account: TRIADENV Received: 04/03/14 10:35 Due Date: 04/14/14 00:00 RPT Date: 04/11/14 12:42
1liter summas

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Mr. Chris Scott
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Nashville, TN 37214

Quality Assurance Report
Level II

L691640

April 11, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .2	ppb			WG714913	04/07/14 18:48
1,1,2,2-Tetrachloroethane	< .2	ppb			WG714913	04/07/14 18:48
1,1,2-Trichloroethane	< .2	ppb			WG714913	04/07/14 18:48
1,1,2-Trichlorotrifluoroethane	< .2	ppb			WG714913	04/07/14 18:48
1,1-Dichloroethane	< .2	ppb			WG714913	04/07/14 18:48
1,1-Dichloroethene	< .2	ppb			WG714913	04/07/14 18:48
1,2,4-Trichlorobenzene	< .63	ppb			WG714913	04/07/14 18:48
1,2,4-Trimethylbenzene	< .2	ppb			WG714913	04/07/14 18:48
1,2-Dibromoethane	< .2	ppb			WG714913	04/07/14 18:48
1,2-Dichlorobenzene	< .2	ppb			WG714913	04/07/14 18:48
1,2-Dichloroethane	< .2	ppb			WG714913	04/07/14 18:48
1,2-Dichloropropane	< .2	ppb			WG714913	04/07/14 18:48
1,2-Dichlorotetrafluoroethane	< .2	ppb			WG714913	04/07/14 18:48
1,3,5-Trimethylbenzene	< .2	ppb			WG714913	04/07/14 18:48
1,3-Butadiene	< 2	ppb			WG714913	04/07/14 18:48
1,3-Dichlorobenzene	< .2	ppb			WG714913	04/07/14 18:48
1,4-Dichlorobenzene	< .2	ppb			WG714913	04/07/14 18:48
1,4-Dioxane	< .2	ppb			WG714913	04/07/14 18:48
2,2,4-Trimethylpentane	< .2	ppb			WG714913	04/07/14 18:48
2-Butanone (MEK)	< 1.25	ppb			WG714913	04/07/14 18:48
2-Chlorotoluene	< .2	ppb			WG714913	04/07/14 18:48
4-Ethyltoluene	< .2	ppb			WG714913	04/07/14 18:48
4-Methyl-2-pentanone (MIBK)	< 1.25	ppb			WG714913	04/07/14 18:48
Allyl chloride	< .2	ppb			WG714913	04/07/14 18:48
Benzene	< .2	ppb			WG714913	04/07/14 18:48
Benzyl Chloride	< .2	ppb			WG714913	04/07/14 18:48
Bromodichloromethane	< .2	ppb			WG714913	04/07/14 18:48
Bromoform	< .6	ppb			WG714913	04/07/14 18:48
Bromomethane	< .2	ppb			WG714913	04/07/14 18:48
Carbon disulfide	< .2	ppb			WG714913	04/07/14 18:48
Carbon tetrachloride	< .2	ppb			WG714913	04/07/14 18:48
Chlorobenzene	< .2	ppb			WG714913	04/07/14 18:48
Dibromochloromethane	< .2	ppb			WG714913	04/07/14 18:48
Chloroethane	< .2	ppb			WG714913	04/07/14 18:48
Chloroform	< .2	ppb			WG714913	04/07/14 18:48
Chloromethane	< .2	ppb			WG714913	04/07/14 18:48
cis-1,2-Dichloroethene	< .2	ppb			WG714913	04/07/14 18:48
cis-1,3-Dichloropropene	< .2	ppb			WG714913	04/07/14 18:48
Cyclohexane	< .2	ppb			WG714913	04/07/14 18:48
Dichlorodifluoromethane	< .2	ppb			WG714913	04/07/14 18:48
Ethanol	< .63	ppb			WG714913	04/07/14 18:48
Ethylbenzene	< .2	ppb			WG714913	04/07/14 18:48
Heptane	< .2	ppb			WG714913	04/07/14 18:48
Hexachloro-1,3-butadiene	< .63	ppb			WG714913	04/07/14 18:48
Isopropylbenzene	< .2	ppb			WG714913	04/07/14 18:48
m&p-Xylene	< .4	ppb			WG714913	04/07/14 18:48
Methyl Butyl Ketone	< 1.25	ppb			WG714913	04/07/14 18:48
Methyl methacrylate	< .2	ppb			WG714913	04/07/14 18:48
MTBE	< .2	ppb			WG714913	04/07/14 18:48
Methylene Chloride	< .2	ppb			WG714913	04/07/14 18:48
n-Hexane	< .2	ppb			WG714913	04/07/14 18:48
Naphthalene	< .63	ppb			WG714913	04/07/14 18:48
o-Xylene	< .2	ppb			WG714913	04/07/14 18:48
Propene	< .4	ppb			WG714913	04/07/14 18:48
Styrene	< .2	ppb			WG714913	04/07/14 18:48
Tetrachloroethylene	< .2	ppb			WG714913	04/07/14 18:48
Tetrahydrofuran	< .2	ppb			WG714913	04/07/14 18:48
Toluene	< .2	ppb			WG714913	04/07/14 18:48
trans-1,2-Dichloroethene	< .2	ppb			WG714913	04/07/14 18:48

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Mr. Chris Scott
207 Donelson Pike Suite 200

Nashville, TN 37214

Quality Assurance Report
Level II

L691640

April 11, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
trans-1,3-Dichloropropene	< .2	ppb			WG714913	04/07/14 18:48
Trichloroethylene	< .2	ppb			WG714913	04/07/14 18:48
Trichlorofluoromethane	< .2	ppb			WG714913	04/07/14 18:48
Vinyl acetate	< .2	ppb			WG714913	04/07/14 18:48
Vinyl Bromide	< .2	ppb			WG714913	04/07/14 18:48
Vinyl chloride	< .2	ppb			WG714913	04/07/14 18:48
1,4-Bromofluorobenzene		% Rec.	96.80	60-140	WG714913	04/07/14 18:48
2-Propanol	< 1.25	ppb			WG715181	04/08/14 15:58
Acetone	< 1.25	ppb			WG715181	04/08/14 15:58
1,4-Bromofluorobenzene		% Rec.	93.60	60-140	WG715181	04/08/14 15:58
Carbon Dioxide	< .5	%			WG715253	04/09/14 12:14
Oxygen	< 2	%			WG715253	04/09/14 12:14

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	ppb	3.75	3.90	104.	70-130	WG714913
1,1,2,2-Tetrachloroethane	ppb	3.75	4.56	122.	70-130	WG714913
1,1,2-Trichloroethane	ppb	3.75	4.19	112.	70-130	WG714913
1,1,2-Trichlorotrifluoroethane	ppb	3.75	3.95	105.	70-130	WG714913
1,1-Dichloroethane	ppb	3.75	4.05	108.	70-130	WG714913
1,1-Dichloroethene	ppb	3.75	4.04	108.	70-130	WG714913
1,2,4-Trichlorobenzene	ppb	3.75	4.06	108.	59.7-155	WG714913
1,2,4-Trimethylbenzene	ppb	3.75	4.64	124.	70-130	WG714913
1,2-Dibromoethane	ppb	3.75	4.07	109.	70-130	WG714913
1,2-Dichlorobenzene	ppb	3.75	4.30	115.	70-130	WG714913
1,2-Dichloroethane	ppb	3.75	4.28	114.	70-130	WG714913
1,2-Dichloropropane	ppb	3.75	4.26	114.	70-130	WG714913
1,2-Dichlorotetrafluoroethane	ppb	3.75	3.97	106.	70-130	WG714913
1,3,5-Trimethylbenzene	ppb	3.75	4.63	124.	70-130	WG714913
1,3-Butadiene	ppb	3.75	4.09	109.	70-130	WG714913
1,3-Dichlorobenzene	ppb	3.75	4.22	113.	70-130	WG714913
1,4-Dichlorobenzene	ppb	3.75	4.09	109.	70-130	WG714913
1,4-Dioxane	ppb	3.75	4.71	126.	70-130	WG714913
2,2,4-Trimethylpentane	ppb	3.75	4.08	109.	70-130	WG714913
2-Butanone (MEK)	ppb	3.75	4.38	117.	70-130	WG714913
2-Chlorotoluene	ppb	3.75	3.50	93.3	70-130	WG714913
4-Ethyltoluene	ppb	3.75	4.68	125.	70-130	WG714913
4-Methyl-2-pentanone (MIBK)	ppb	3.75	4.50	120.	51.3-144	WG714913
Allyl chloride	ppb	3.75	4.17	111.	70-130	WG714913
Benzene	ppb	3.75	4.22	113.	70-130	WG714913
Benzyl Chloride	ppb	3.75	4.27	114.	70-130	WG714913
Bromodichloromethane	ppb	3.75	4.19	112.	70-130	WG714913
Bromoform	ppb	3.75	4.22	112.	70-130	WG714913
Bromomethane	ppb	3.75	4.03	107.	70-130	WG714913
Carbon disulfide	ppb	3.75	3.99	106.	70-130	WG714913
Carbon tetrachloride	ppb	3.75	3.93	105.	70-130	WG714913
Chlorobenzene	ppb	3.75	4.19	112.	70-130	WG714913
Dibromochloromethane	ppb	3.75	4.14	110.	70-130	WG714913
Chloroethane	ppb	3.75	4.06	108.	70-130	WG714913
Chloroform	ppb	3.75	3.90	104.	70-130	WG714913
Chloromethane	ppb	3.75	4.06	108.	70-130	WG714913
cis-1,2-Dichloroethene	ppb	3.75	4.14	110.	70-130	WG714913
cis-1,3-Dichloropropene	ppb	3.75	4.22	113.	70-130	WG714913
Cyclohexane	ppb	3.75	4.00	107.	70-130	WG714913

* Performance of this Analyte is outside of established criteria.
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Nashville, TN 37214

Quality Assurance Report
Level II

L691640

April 11, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Dichlorodifluoromethane	ppb	3.75	4.05	108.	70-130	WG714913
Ethanol	ppb	3.75	3.87	103.	52.6-145	WG714913
Ethylbenzene	ppb	3.75	4.55	121.	70-130	WG714913
Heptane	ppb	3.75	4.29	114.	70-130	WG714913
Hexachloro-1,3-butadiene	ppb	3.75	4.31	115.	55.7-144	WG714913
Isopropylbenzene	ppb	3.75	4.73	126.	70-130	WG714913
m&p-Xylene	ppb	7.5	9.03	120.	70-130	WG714913
Methyl Butyl Ketone	ppb	3.75	4.28	114.	36.5-155	WG714913
Methyl methacrylate	ppb	3.75	4.15	111.	70-130	WG714913
MTBE	ppb	3.75	4.29	114.	70-130	WG714913
Methylene Chloride	ppb	3.75	3.82	102.	70-130	WG714913
n-Hexane	ppb	3.75	4.02	107.	70-130	WG714913
Naphthalene	ppb	3.75	4.47	119.	53.4-158	WG714913
o-Xylene	ppb	3.75	4.66	124.	70-130	WG714913
Propene	ppb	3.75	4.15	111.	70-130	WG714913
Styrene	ppb	3.75	4.58	122.	70-130	WG714913
Tetrachloroethylene	ppb	3.75	4.01	107.	70-130	WG714913
Tetrahydrofuran	ppb	3.75	3.22	85.8	70-130	WG714913
Toluene	ppb	3.75	4.31	115.	70-130	WG714913
trans-1,2-Dichloroethene	ppb	3.75	4.00	107.	70-130	WG714913
trans-1,3-Dichloropropene	ppb	3.75	4.25	113.	70-130	WG714913
Trichloroethylene	ppb	3.75	4.13	110.	70-130	WG714913
Trichlorofluoromethane	ppb	3.75	4.00	107.	70-130	WG714913
Vinyl acetate	ppb	3.75	4.43	118.	70-130	WG714913
Vinyl Bromide	ppb	3.75	4.03	107.	70-130	WG714913
Vinyl chloride	ppb	3.75	4.03	108.	70-130	WG714913
1,4-Bromofluorobenzene				103.0	60-140	WG714913
2-Propanol	ppb	3.75	3.84	102.	62.2-137	WG715181
Acetone	ppb	3.75	4.73	126.	70-130	WG715181
1,4-Bromofluorobenzene				102.0	60-140	WG715181
Carbon Dioxide	%	3.5	3.75	107.	70-130	WG715253
Oxygen	%	3.5	3.62	103.	70-130	WG715253

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	ppb	3.84	3.90	102.	70-130	1.53	25	WG714913
1,1,2,2-Tetrachloroethane	ppb	3.89	4.56	104.	70-130	15.8	25	WG714913
1,1,2-Trichloroethane	ppb	3.91	4.19	104.	70-130	6.86	25	WG714913
1,1,2-Trichlorotrifluoroethane	ppb	3.83	3.95	102.	70-130	2.93	25	WG714913
1,1-Dichloroethane	ppb	3.89	4.05	104.	70-130	3.86	25	WG714913
1,1-Dichloroethene	ppb	3.91	4.04	104.	70-130	3.25	25	WG714913
1,2,4-Trichlorobenzene	ppb	4.01	4.06	107.	59.7-155	1.32	25	WG714913
1,2,4-Trimethylbenzene	ppb	3.86	4.64	103.	70-130	18.3	25	WG714913
1,2-Dibromoethane	ppb	3.96	4.07	106.	70-130	2.82	25	WG714913
1,2-Dichlorobenzene	ppb	3.81	4.30	102.	70-130	12.1	25	WG714913
1,2-Dichloroethane	ppb	3.88	4.28	103.	70-130	9.84	25	WG714913
1,2-Dichloropropane	ppb	3.88	4.26	104.	70-130	9.40	25	WG714913
1,2-Dichlorotetrafluoroethane	ppb	3.84	3.97	102.	70-130	3.40	25	WG714913
1,3,5-Trimethylbenzene	ppb	3.92	4.63	104.	70-130	16.6	25	WG714913
1,3-Butadiene	ppb	3.88	4.09	104.	70-130	5.25	25	WG714913
1,3-Dichlorobenzene	ppb	3.82	4.22	102.	70-130	10.0	25	WG714913
1,4-Dichlorobenzene	ppb	3.78	4.09	101.	70-130	7.91	25	WG714913
1,4-Dioxane	ppb	4.02	4.71	107.	70-130	15.8	25	WG714913
2,2,4-Trimethylpentane	ppb	3.89	4.08	104.	70-130	4.78	25	WG714913

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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April 11, 2014

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
2-Butanone (MEK)	ppb	4.13	4.38	110.	70-130	6.01	25	WG714913
2-Chlorotoluene	ppb	3.08	3.50	82.0	70-130	12.7	25	WG714913
4-Ethyltoluene	ppb	3.95	4.68	105.	70-130	16.8	25	WG714913
4-Methyl-2-pentanone (MIBK)	ppb	3.84	4.50	102.	51.3-144	16.0	25	WG714913
Allyl chloride	ppb	3.89	4.17	104.	70-130	6.86	25	WG714913
Benzene	ppb	3.90	4.22	104.	70-130	8.03	25	WG714913
Benzyl Chloride	ppb	3.83	4.27	102.	70-130	10.9	25	WG714913
Bromodichloromethane	ppb	3.89	4.19	104.	70-130	7.59	25	WG714913
Bromoform	ppb	3.87	4.22	103.	70-130	8.62	25	WG714913
Bromomethane	ppb	3.87	4.03	103.	70-130	3.87	25	WG714913
Carbon disulfide	ppb	3.88	3.99	104.	70-130	2.73	25	WG714913
Carbon tetrachloride	ppb	3.82	3.93	102.	70-130	2.69	25	WG714913
Chlorobenzene	ppb	3.95	4.19	105.	70-130	6.07	25	WG714913
Dibromochloromethane	ppb	3.93	4.14	105.	70-130	5.24	25	WG714913
Chloroethane	ppb	3.98	4.06	106.	70-130	2.11	25	WG714913
Chloroform	ppb	3.84	3.90	102.	70-130	1.64	25	WG714913
Chloromethane	ppb	3.96	4.06	105.	70-130	2.48	25	WG714913
cis-1,2-Dichloroethene	ppb	3.97	4.14	106.	70-130	4.22	25	WG714913
cis-1,3-Dichloropropene	ppb	3.96	4.22	106.	70-130	6.50	25	WG714913
Cyclohexane	ppb	3.90	4.00	104.	70-130	2.48	25	WG714913
Dichlorodifluoromethane	ppb	3.99	4.05	106.	70-130	1.49	25	WG714913
Ethanol	ppb	4.05	3.87	108.	52.6-145	4.54	25	WG714913
Ethylbenzene	ppb	3.94	4.55	105.	70-130	14.4	25	WG714913
Heptane	ppb	3.90	4.29	104.	70-130	9.67	25	WG714913
Hexachloro-1,3-butadiene	ppb	3.99	4.31	106.	55.7-144	7.72	25	WG714913
Isopropylbenzene	ppb	4.01	4.73	107.	70-130	16.3	25	WG714913
m&p-Xylene	ppb	7.82	9.03	104.	70-130	14.3	25	WG714913
Methyl Butyl Ketone	ppb	3.83	4.28	102.	36.5-155	11.1	25	WG714913
Methyl methacrylate	ppb	3.55	4.15	95.0	70-130	15.4	25	WG714913
MTBE	ppb	4.03	4.29	107.	70-130	6.33	25	WG714913
Methylene Chloride	ppb	3.68	3.82	98.0	70-130	3.68	25	WG714913
n-Hexane	ppb	3.90	4.02	104.	70-130	2.93	25	WG714913
Naphthalene	ppb	4.11	4.47	109.	53.4-158	8.56	25	WG714913
o-Xylene	ppb	4.00	4.66	107.	70-130	15.2	25	WG714913
Propene	ppb	3.94	4.15	105.	70-130	5.16	25	WG714913
Styrene	ppb	4.03	4.58	107.	70-130	12.9	25	WG714913
Tetrachloroethylene	ppb	3.85	4.01	103.	70-130	4.07	25	WG714913
Tetrahydrofuran	ppb	3.65	3.22	97.0	70-130	12.6	25	WG714913
Toluene	ppb	3.94	4.31	105.	70-130	8.96	25	WG714913
trans-1,2-Dichloroethene	ppb	3.87	4.00	103.	70-130	3.19	25	WG714913
trans-1,3-Dichloropropene	ppb	3.98	4.25	106.	70-130	6.48	25	WG714913
Trichloroethylene	ppb	3.84	4.13	102.	70-130	7.15	25	WG714913
Trichlorofluoromethane	ppb	3.86	4.00	103.	70-130	3.53	25	WG714913
Vinyl acetate	ppb	4.08	4.43	109.	70-130	8.07	25	WG714913
Vinyl Bromide	ppb	3.93	4.03	105.	70-130	2.42	25	WG714913
Vinyl chloride	ppb	4.00	4.03	106.	70-130	0.940	25	WG714913
1,4-Bromofluorobenzene				102.0	60-140			WG714913
2-Propanol	ppb	3.30	3.84	88.0	62.2-137	15.1	25	WG715181
Acetone	ppb	4.64	4.73	124.	70-130	1.90	25	WG715181
1,4-Bromofluorobenzene				104.0	60-140			WG715181
Carbon Dioxide	%	3.42	3.75	98.0	70-130	9.46	20	WG715253
Oxygen	%	3.25	3.62	93.0	70-130	10.8	20	WG715253

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April 11, 2014

Batch number /Run number / Sample number cross reference

WG714913: R2902805: L691640-01
WG715181: R2902976: L691640-01
WG715253: R2903105: L691640-02

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Billing Information:
Beth Duprez
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Nashville, TN 37214

Report to: Mr. Chris Scott

Email To: cscott@triadenv.com

Project Description: ELMCO - Air Testing

City/State Collected: Franklin, TN

Phone: 615-889-6888
Fax: 615-889-4004

Client Project # 07-ELM01-01

Lab Project # TRIADENV-ELMCO

Collected by (print): Chris Scott

Site/Facility ID #

P.O. #

Collected by (signature): Chris Scott

Immediately Packed on Ice N ✓ Y ___

Rush? (Lab MUST Be Notified)
___ ~~Same Day~~ 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15; O2, CO2 Summa										Rem./Contaminant	Sample # (lab only)
SG-1	G	Air	5-6ft	4-2-14	1521-1526	1	X											01/02

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: Initial SUMMA vacuum 30 final vacuum 6

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris Scott	4-3-14	900	Wayne Shull
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
Wayne Shull	4/3/14	1055	J. Jth

Samples returned via: ☐ UPS ☐ FedEx ☒ Courier ☐ _____

Temp: Amb °C Bottles Received: 1T15T

Date: 04-03-14 Time: 1055

Chain of Custody Page ___ of ___

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L# L691640

L189

Acctnum: TRIADENV
Template: T58422 3/24/14
Prelogin: P462955 B.G
TSR: 064 - Terrie Fudge
PB:
Shipped Via: Courier

Hold #

Condition: (lab use only) TD
a

COC Seal Intact: ___Y ___N ✓NA

pH Checked: NCF:

Appendix 7

Secaps Environmental Inc. Risk Assessment Reports

June 2008 Risk Assessment

Attorney-Client Communication or Attorney Work Product

Egyptian Lacquer Manufacturing Company, Inc. ("ELMCO")

Risk Assessment in Support of Correction Action Plans

Prepared for:

Stites & Harbison, PLLC
Nashville, Tennessee

Prepared by:

Secaps Environmental Inc.
Fuquay-Varina, NC

June 2008

Attorney-Client Communication or Attorney Work Product

ELMCO RISK ASSESSMENT
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1.0 INTRODUCTION

The purpose of the Egyptian Lacquer Manufacturing Company (ELMCO) human health and ecological risk assessments is to assess the potential effects on human health and the environment associated with a historical release from the facility's solvent transfer piping system. The assessments assumed that no action would be taken to control or eliminate releases beyond those measures implemented prior to June 2008.

Results of the risk assessments will be used to support alternatives selection as part of the revised Corrective Action Plan (CAP) for the ELMCO facility. The CAP is being prepared on behalf of ELMCO through its attorneys at Stites & Harbison, PLLC by TriAD Environmental Consultants, Inc. (TriAD).

Site History and Background

In late 2006 and early 2007, investigations into objectionable odors found that free product and/or dissolved aromatic and ketone solvents were seeping from the eastern bank of Liberty Creek and the northern bank of the Harpeth River west and south, respectively, of the ELMCO manufacturing facility. Investigations in early 2007 at the ELMCO facility found that the likely source of these solvents were leaks in underground pipes which conveyed solvents from ELMCO's aboveground tank farm to its manufacturing building. Subsequent investigations identified a relatively confined column of solvent-impacted soil beneath the leak location as well as free product and dissolved phase aromatic and ketone compounds in groundwater. Monitoring of ambient air, air within residences and air within Battle Ground Academy Lower School (BGA) has also been performed. The two primary contaminants (acetone and toluene) have been detected in some air samples. The piping system has since been decommissioned and a number of actions have been taken to eliminate or control the residual source. Additional details regarding the site and investigation history are provided in the CAP.

Previous Risk Evaluations

Various screening level analyses have been performed in conjunction with previous actions at the site. Human health screening has been used to gauge the significance of surface water, air and groundwater results. The Tennessee Department of Health has also reportedly conducted a risk assessment to evaluate potential impacts on recreational users of the Harpeth River (TDEC 2007).

TDEC evaluated surface water results to determine whether current surface water impacts pose a threat to aquatic receptors. In addition, limited toxicity testing of waters from Liberty Creek was performed. This risk assessment represents the first attempt to fully characterize the threat posed to human health and the environment due to the historical leaks in the ELMCO solvent piping system. Human health and ecological risks are addressed separately in the following sections.

2.0 HUMAN HEALTH RISK ASSESSMENT

The human health risk assessment (HHRA) was performed in general accordance with USEPA risk assessment guidance. Specific guidance documents used in preparing the HHRA are listed in the References. Consistent with USEPA guidance (USEPA 1989), the HHRA process was divided into five elements:

- Data Collection and Evaluation
- Exposure Assessment
- Toxicity Assessment
- Risk Characterization
- Uncertainty Analysis

Each of these five elements is described in detail in succeeding sections of the HHRA. The last section of the HHRA discusses results in the context of potential risk management decisions and provides remedial goal options for environmental media based upon the exposure scenarios and assumptions.

2.1 DATA COLLECTION AND EVALUATION

Data Compilation and Evaluation
The following data evaluation steps were performed:

- Gather and sort data
- Evaluate analytical methods
- Evaluate quality of data with respect to sample quantitation limits
- Evaluate quality of data with respect to qualifiers and codes
- Evaluate quality of data with respect to blanks
- Compare potential site-related contaminant levels to background
- Identify chemicals of potential concern (COPCs) based on risk-based screening

The process was used to ensure data used were of acceptable quality and to identify chemicals associated with the source that warranted formal assessment in the HHRA. Only samples for those media associated with exposure pathways expected to be completed were considered. Based upon current and anticipated future land uses in the area and other factors, no soil sample results were compiled for this effort. The original pipe leak occurred at depth and as a consequence, surface soils were not affected. This was confirmed in TriAD's 'Final Report of Confirmation Soil Investigations under Former Tank Farm and in BIOX Treatment Area at ELMCO Facility, June 10, 2008'. Industrial workers are not expected to come into contact with contaminated soils at depth. Potential risks associated with subsurface soil during remedial activities (ex., excavation) will be addressed under OSHA HAZWOPER regulation.

It has been acknowledged that groundwater does not meet drinking water standards due in large part to the presence of volatile organic compounds suspected to have originated from the ELMCO piping system. Site investigations have revealed that the water bearing

zones in local geologic formations provide low to extremely low yield. As such, the potential for these formations to supply water for domestic purposes is questionable. There are currently no documented groundwater uses on or in the potentially affected vicinity of the ELMCO facility. In early 2007, contractors for the Tennessee Department of Environment and Conservation identified the few water supply wells (all domestic) in the larger site vicinity and found, through sampling and analysis, that none had been impacted by the release. Municipal water is available to local residents and a review found that it was the exclusive source of potable supply in the subject area. As a consequence, no completed groundwater exposure pathways were identified and no quantitative assessment of groundwater risks was performed. In the event of any proposed changes in local groundwater use, additional evaluation may be warranted.

Gather and Sort Data

Numerous sampling investigations have been conducted on and around the ELMCO facility since the fourth quarter 2006. Details regarding these investigations are provided in the CAP and under separate cover. Data produced by previous field efforts were entered into a project database. Data were subjected to a measurement quality objectives review and lab qualifiers were considered as part of the data quality assessment. It was presumed that data were of sufficient quality to support risk assessment end uses although formal data verification/validation was not performed.

Sampling locations, location descriptions, sampling dates and associated media considered for use in the HHRA are summarized in Table 1 and represent the culmination of the initial data gathering (and exclusion) effort. Data from some efforts were not included due to lack of supporting documentation.

Evaluation of Analytical Methods

Analytical methods were evaluated during the DQA process. The methods for specific chemical/compound groups were largely comparable between efforts. The analytical suite differed between ELMCO and TDEC studies as well as between media. Based on the approach, chemicals were assumed to be absent from samples in which they were not analyzed. The variable analytical suite (among other factors) led to differing numbers of analyses for individual parameters in a medium.

Evaluation of Sample Quantitation Limits

Quantitation limits (QLs) for samples collected from multiple field efforts were generally adequate for the primary contaminants (acetone and toluene). For air samples, exceptions were frequently noted for benzene and less regularly for acetone. Due to the high concentrations of acetone and toluene in some aqueous samples, the detection (or reporting) limits (DL/RL) for other compounds were elevated. These issues appear to have masked secondary contaminants which have more recently been detected as primary contaminant levels have decreased.

Evaluation of Qualified and Coded Data

Any data coded 'R' (rejected) by the laboratory or data validator/quality assessor were excluded from risk assessment use. Data with 'U' (non-detect) or 'UJ' (non-detect; estimated detection limit) qualifiers were handled as follows for statistical purposes.

Where an adequate DL was obtained:

- result set equal to one-half DL

Where inadequate DLs were reported, the associated results were not used to quantify exposure. Estimated values qualified as 'J' (estimated) or 'JE' (estimated, exceeded calibration range) were used at face value.

Comparison to Blanks

Blank (including field, rinsate, filter and laboratory blanks) comparisons were routinely performed as part of the data quality process for samples collected by TriAD. Use of field-related blanks in associated with TDEC sampling efforts was uncertain in some cases. Data qualifiers were assigned to results as necessary to reflect the blank influences on quantitation limits and confidence.

Comparison to Background

Background data were not collected for seeps. Limited background surface water sampling by TriAD (Liberty Creek) and TDEC (Harpeth River) found no ELMCO-related constituents. Therefore, no comparisons to reference conditions were necessary. For ambient air, background samples were collected at residences outside potential site influences. Due to results for ambient air background samples, no formal screening was incorporated into the overall COPC selection process.

Selection of COPCs

Data considered for use in the HHRA process are presented in Attachment A. In order to reduce the number of chemicals requiring formal risk analysis, risk-based screening steps were performed.

Frequency of Detection

Chemicals that were not detected in any sample for a particular medium were not considered as COPCs. Benzene was considered a special case and further discussion is provided below. Determinations were made based upon exposure units applicable to specific scenarios. No minimum frequency cutoff criteria were applied in the COPC identification process.

Comparison to Risk-Based Concentrations

Maximum detected concentrations in exposure media were compared to conservative risk-based screening concentrations. The purpose was to reduce the number of parameters carried forward for formal assessment. Exposure media were further segregated by exposure unit for screening, where applicable. Where multiple scenarios applied to an exposure unit, RBCs based upon the most conservative of the scenarios were used. This was done to avoid formal assessment of chemicals for exposure

unit/scenario combinations where they obviously would not pose an unacceptable risk or hazard.

All screening values were based on a target risk of 1E-6 and/or a target hazard quotient of 0.1. The following paragraphs provide a detailed discussion of the screening values as well as their application. Discussions are organized by exposure medium. The intent of the screening process was to identify COPCs under current conditions.

Surface Water

Surface water (WS) screening values are presented in Table 2. The current recreational user/trespasser scenario was identified as the most conservative of those that may involve exposure to surface water bodies in the vicinity of the ELMCO facility. Screening values for surface water were computed using assumptions and equations shown in Table 3 along with toxicological values and chemical-specific factors provided in Tables 4 and 5. The exposure assumptions were based on recreational use by a 0 to 6 year old child for non-carcinogenic endpoints or an integrated child/adult (30 year exposure duration; 6 years as child, 24 years as adult) for carcinogenic endpoints.

The screening process addressed Liberty Creek and the Harpeth River separately. The former is not a navigable stream, is characterized by variable (although generally low) flow and is most likely to be frequented by children and adults residing in the vicinity. The latter is a sizeable water body reportedly used regularly for canoeing and recreational angling. Available data also indicates they have been differentially impacted by the ELMCO site.

Data derived from five 2008 (monthly – January through May) sampling events in Liberty Creek were used. For the Harpeth River, data from the last four sampling events (October, November and December 2007; March 2008) were used. These data collected by TriAD and TDEC were considered most representative of current conditions. Plans and findings for these investigations are detailed under separate cover. The results of the surface water screening analyses are presented in Tables 6 and 7. Toluene was identified as the sole COPC in Liberty Creek surface water. No COPCs were indicated for the Harpeth River.

Air

Air screening values are presented in Table 2. The current residential scenario was identified as the most conservative of those that may involve exposure via air pathways in the vicinity of the ELMCO facility. Screening values for air were computed using assumptions and equations shown in Table 8 along with toxicological values provided in Table 4. The exposure assumptions were based on a 0 to 6 year old child for non-carcinogenic endpoints or an integrated child/adult (30 year exposure duration; 6 years as child, 24 years as adult) for carcinogenic endpoints.

The screening process addressed air exposure based on three datasets. In March 2007, two-day time-integrated average air sampling was performed in the BGA with school air (AS) samples from six unspecified locations. No work plan or formal report was

received regarding the BGA air monitoring. These data collected by EHS Services, LLC were considered representative of current ambient conditions. Residential air (AR) samples (24 hour time-integrated average) were collected from one crawlspace and two basements in Daniels Drive homes in April 2007. In accordance with a TDEC-approved work plan, intensive ambient air (AA) sampling was performed along the Liberty Creek corridor and between Daniels Drive and the Harpeth River in the spring of 2008. Weekly 7-day time-integrated average samples were collected from April 21 and May 19, 2008. These data collected by EnSafe were considered representative of current ambient conditions. Plans and findings for these investigations are detailed under separate cover.

The results of the air screening analyses are presented in Tables 9, 10 and 11. Toluene was identified as the sole COPC in ambient air only. No COPCs were indicated for school or residential air. It should be noted that the detection limits for benzene and acetone exceeded the screening values in some instances. Further discussions regarding this observation are provided in the Uncertainty section.

2.2 EXPOSURE ASSESSMENT

The purpose of the exposure assessment was to identify receptors and to estimate potential exposures under plausible current and future exposure scenarios. Consistent with RAGS Part A, exposure assessment was conducted in three steps: 1) characterization of exposure setting; 2) identification of exposure pathways; and 3) quantification of exposure.

Characterization of Exposure Setting

Local Land Use and Description

Details regarding the location, demographics and physical characteristics of the site are provided in the CAP. The following summarizes those aspects of the site that are most critical for assessing potential current and future exposures.

The site consists of the ELMCO facility, the residential properties along Daniels Drive and the Liberty Creek and Harpeth River corridors within the area of documented environmental impact. The BGA school was considered to be within the Liberty Creek corridor.

Exposure Areas and Potential Receptors

Based on the outcome of the screening analyses, the relevant exposure areas (or units – EU) include Liberty Creek (WS) and outside areas along the Liberty Creek and Harpeth River corridors (AA).

Potential surface water receptors are local children and adult residents who may also use Liberty Creek for recreational purposes. Those same local residents along with school children at BGA represent the primary receptors via air pathways.

Sensitive Subpopulations
Infants and small children are more susceptible to the toxic effects of some chemicals in the environment. Current residential and recreational scenarios recognize that residences exist on or in close proximity to areas where COPCs were identified in affected media. As a result, risks to children under the age of 7 were evaluated. However, because of access restrictions, distance to existing residences/schools and topography, children under 5 are unlikely to regularly contact surface waters.

Identification of Exposure Pathways
Exposure pathways link a source or contaminated medium to an exposed individual or receptor. This is done based on the location and nature of the contaminated media and the types and patterns of human activity. In order to complete a pathway, a source, affected medium, point of contact and effective exposure route must exist. The sources of contamination associated with the ELMCO site are discussed in the CAP. For purposes of the HHRA, it was assumed that current conditions are (and will be) representative of exposure media for all future exposure scenarios. As a consequence, no formal fate and transport or source dissipation modeling was used to predict exposures. It should be noted, however, that decreasing concentration trends have been observed in seeps along Liberty Creek and the Harpeth River. Because these features represent the primary sources of contaminants to both surface water and ambient air, continued declines would be expected to result in reduced levels in exposure media.

Affected Media
Each environmental medium investigated as part of the ELMCO studies was found to be affected to some extent by volatile organic compounds. Based on the results of the screening analyses, the media addressed in the HHRA were as follows:

- **Surface Water** samples collected in Liberty Creek were found to have elevated concentrations of toluene, some above conservative risk-based concentrations.

- **Ambient Air** samples collected from along Liberty Creek, just southeast of the BGA building, and west and south of Daniels Drive residences were found to have detectable concentrations of toluene, some above conservative risk-based concentrations.

Exposure Points and Routes
The exposure points for each medium were established as the contaminated areas or media in the respective EUs. Exposure routes evaluated in the HHRA included the following:

- Incidental ingestion of COPCs in Liberty Creek surface water
- Dermal contact with COPCs in Liberty Creek surface water
- Inhalation of COPCs in ambient air in the Liberty Creek and Harpeth River corridors

Individual exposure to contaminated media varied between receptor populations, exposure scenarios and EUs.

Detailed Exposure Scenarios
Exposure scenarios were constructed based upon the conceptual site model; considering specific receptors, activities, exposure units and timeframes. A single conservative scenario was evaluated.

- **Current Resident**: This scenario assumed that individuals residing along Daniels Drive would be the primary receptors. The receptor populations will be children and adults. Primary exposures will be to ambient air under standard residential conditions. In addition, the receptors will occasionally enter Liberty Creek for recreational purposes. During these excursions, individuals will be exposed to surface water via incidental ingestion and dermal contact.

No additional (less conservative) scenarios were addressed based on findings for the current residential receptor.

Quantification of Exposure
Chemical exposures were quantified as chronic daily intakes (CDI) for each applicable exposure scenario, pathway and route consistent with USEPA guidance (USEPA 1989). The primary calculations were based on 'reasonable maximum exposure' (RME) in each case. Where associated RME risk and/or hazard were subsequently found to exceed project targets, results are discussed in the Risk Characterization and Uncertainty Analysis sections.

The CDI were computed for non-cancer health endpoints, as no carcinogenic COPCs were identified. Exposures to non-carcinogen exposures are averaged over the exposure duration only. Where receptors in two different age groups were potentially applicable to a scenario, exposures to non-carcinogens were quantified based upon the younger group (ex. children for current residential/recreational use scenarios). This approach is conservative in that the younger age groups have higher exposure rates (gross or in relation to body weight).

Tables 3 and 8 provide the exposure assumptions and formulae used to quantify RME exposure via surface water ingestion and dermal contact, and ambient air inhalation routes. Chemical-specific exposure inputs are provided in Table 5.

Exposure Point Concentrations
The concentration term in each exposure CDI equation is intended to represent the average that may be contacted over the exposure duration. Due to the uncertainties associated with these estimates, the 95% upper confidence limit (UCL) of the mean is most commonly used as the exposure point concentration (EPC) for RME exposure estimates (USEPA 2002). For the HHRA, ProUCL Version 3.0 (ProUCL) (USEPA 2004a) was used to compute UCL values for each parameter and scenario. ProUCL uses the 'W test' ($n \leq 50$) or Lilliefors test ($n > 50$) statistics to test for normal and lognormal data distributions. If the data do not fit the conventional distributions, it also tests for the gamma distribution which is often better suited to positively skewed environmental data

using the Anderson-Darling or Kolmogorov-Smirnov test. UCL mean concentrations are computed using various parametric and non-parametric methods. Depending upon the results of the normality testing, the program recommends a particular UCL estimate as most appropriate given the data distribution for a parameter.

It was assumed that all datasets tested represented a single population and were derived from a random sample of each medium. Uniform exposure throughout the applicable EU(s) was assumed when applying EPCs for CDI estimation. The recommended UCL estimate was used to quantify RME exposure for each scenario and medium either directly or indirectly where time-weighted average (TWA) exposures were addressed.

For surface water, toluene results for each of the 2008 Liberty Creek sampling events were used to compute the EPC. To add further conservatism, only data for sampling stations downstream of the main seep were considered. For ambient air, toluene results for the four sampling events conducted between April 28 and May 19, 2008 were used. The EPC was computed as the UCL of the mean for all locations over time. This approach is expected to overpredict chronic residential exposure as the highest concentrations were consistently reported at location TI-2A; along Liberty Creek outside the area likely to be frequented by residents or school children.

Tables 12 and 13 summarize general statistics, and RME EPC values for surface water and ambient air, respectively along with the specific statistics and rationale used to compute them.

Chronic Daily Intakes

The formulae and EPC values were combined to compute CDI for each relevant scenario, exposure unit, medium and route. The outputs of this step for RME assumptions are presented in Tables 14 and 15 for surface water and ambient air, respectively. Additional discussion is provided in the Risk Characterization and Uncertainty Analysis sections.

2.3 TOXICITY ASSESSMENT

The purpose of the toxicity assessment is to evaluate available information regarding the potential for COPCs to cause adverse health effects and provide an estimate of the relationship between the magnitude of exposure and the probability (or severity) of the effect. In accordance with guidance (USEPA 1989), this assessment was performed in two steps.

The first step, hazard assessment, involves determination of whether an exposure can cause an increase in an adverse health effect and if the effect will manifest in humans. This amounts to a general causation analysis with consideration given to the nature and strength of evidence. The second step, dose-response evaluation, is a quantitative evaluation of toxicity data aimed at determining the relationship between dose and the degree of adverse effect in the exposed population. From this analysis, reference doses (RfD) for non-carcinogens and slope factors (SF) for carcinogens are derived. These values allow for estimation of non-carcinogenic hazard or carcinogenic risk as a function

of exposure. Cancer and non-cancer effects are assessed separately, although some chemicals may causes both types of effect.

Chemical toxicity information used in the HHRA is presented in Table 4. These values were used to compute conservative screening values as well as to perform the quantitative risk assessment. SF and RfD values are provided along with other chemical-specific factors that support route-specific analysis. The primary source of toxicity values was USEPA's Integrated Risk Information System (IRIS). Other sources were used when information was not available in IRIS. The derivation of these values is provided in referenced documents.

Non-Carcinogenic Effects

Non-cancer effects include all health effects that are not cancer. For most non-carcinogens, the human body is capable of detoxifying or otherwise protecting itself against the potential harmful effect. A threshold level typically exists above which these mechanisms are no longer able to protect the exposed individual. Common effects are organ toxicity (kidney, liver, heart), blood disorders, central nervous system disorders (permanent damage or transient impairment), reproductive toxicity and developmental effects (retarded growth, defects). The threshold concept has been rejected in some instances citing the difficulty of empirically distinguishing a true threshold from a dose-response curve that is nonlinear at low doses (USEPA 1996, 1998).

Reference doses are derived based on experimental no observed or lowest observed adverse effect levels (NOAEL and LOAEL). Ideally, experiments would be based on human subjects under chronic exposure conditions with a well-defined lower limit of toxic response (NOAEL) identified. However, very few such studies of adequate quality have been performed. As a result, most toxicological data used to derived RfDs have been obtained from chronic (or acute) animal studies.

In order to account for uncertainties related to sub-chronic experimental exposure, failure to identify an NOAEL/use of an LOAEL, extrapolation from animal species to humans and sensitive human populations, RfDs typically reflect a series of uncertainty (or safety) factors ranging from 1 to 10. A modifying factor may also be applied to reflect the weaknesses or strengths of the associated toxicological database. The RfD is computed as the NOAEL (or LOAEL) divided by the product of all applicable uncertainty and modifying factors.

Although sub-chronic (2 weeks to 7 years) and acute (less than 2 weeks) RfDs have been developed for some chemicals, only chronic RfDs (in units of mg/kg-day) were used for the HHRA based upon the proposed risk characterization approach. Oral and inhalation RfDs were used in the evaluation. They are provided in Table 4 along with uncertainty/modifying factors, target organs/effects and references.

Carcinogenic Effects

A slope factor and the accompanying weight-of evidence determination are the toxicity data most commonly used to evaluate potential human carcinogenic risks. The basic

methods EPA uses to derive these values are outlined below. Additional detail is provided in USEPA's *Guidelines for Carcinogen Risk Assessment* (EPA 1986 and 2005).

In general, estimates of carcinogenicity are not based on a threshold assumption. Exposure at any magnitude is thought to present some potential for carcinogenesis. A weight-of-evidence classification has historically been assigned based upon the strength of supporting human and/or animal data available for a chemical. The following classifications were defined by USEPA 1986:

Group A: Known human carcinogen
Group B: Probable human carcinogen
- Group B1: Limited evidence/data regarding carcinogenicity in humans
- Group B2: Sufficient evidence in animals and inadequate or no evidence in humans

Group C: Possible human carcinogen
Group D: No classifiable as to human carcinogenicity
Group E: Evidence of noncarcinogenicity for humans

For chemicals falling in Groups A, B and sometimes C, slope factors are derived using mathematical models to extrapolate from responses in high dose animal studies to responses anticipated at relatively low dose human environmental exposures. Slope factors represent the 95% upper confidence limit of the slope of the dose-response curve for a specific exposure route (oral or inhalation). USEPA has traditionally used the linearized multistage model for this application which has been shown to be conservative (i.e., predicts higher cancer potency) than other available models.

In 2005, USEPA issued updated guidelines on carcinogen risk assessment (USEPA 2005). The highlights of the changes are:

- Consideration of all potentially relevant biological information. In addition to tumor data, data indicating other responses are to be used and modeled if they may be a measure of carcinogenic risk
- Mode of action is emphasized in order to ensure the mechanisms and uncertainties associated with a chemical's likelihood to cause harm are considered in the dose-response approach

The alphanumeric weight-of-evidence classification has been replaced by a weight-of-evidence narrative. Five standardized hazard descriptors are recommended: Carcinogenic to Humans, Likely to Be Carcinogenic to Humans, Suggestive Evidence of Carcinogenic Potential, Inadequate Information to Assess Carcinogenic Potential and Not Likely to Be Carcinogenic to Humans.

- The narrative also summarizes hazard assessment results and provides a conclusion regarding the human carcinogenic potential on a route-specific basis. The types of evidence considered and how it was used to draw conclusions are discussed. The

significant issues/strengths/limitations of data and conclusions and the mode of action information are summarized to support the dose-response approach.

- Various dose-response assessment options are provided. Extrapolation is based on extension of a biologically based model if supported by substantial data. Otherwise, default approaches can be applied that are consistent with current understanding of mode(s) of action of the agent, including approaches that assume linearity or nonlinearity of the dose-response relationship, or both.

Oral slope factors for COPCs (in units of $(mg/kg\text{-}day)^{-1}$) are provided in Table 4 along with references. Alphanumeric weight-of-evidence classifications are also presented. As of yet, the revised weight-of-evidence guidelines are not reflected in the primary toxicological information sources for many chemicals.

Dermal Toxicity Values

Dermal exposures are calculated based on absorbed dose. As a result, oral toxicity values must be modified to reflect absorbed rather than administered dose. Oral RfDs were converted to their absorbed equivalent as (USEPA 1992, 2004b):

Oral RfD x Gastrointestinal Absorption Factor = Dermal RfD (mg/kg-day)

Similarly, oral SFs were adjusted to represent absorbed dose as:

Oral SF/Gastrointestinal Absorption Factor = Dermal SF $(mg/kg\text{-}day)^{-1}$

Absorption factors and dermal toxicity values used in the HHRA are presented in Table 4 along with related source references.

Toxicological Profiles

Basic toxicological profiles were obtained from ORNL on-line database service June 2008. Each was reviewed and supplemented to reflect project-specific assumptions and/or updated toxicological or chemical characteristic data prior to use. The general characteristics and toxicological effects of the COPCs are summarized in Attachment B.

2.4 RISK CHARACTERIZATION

Risk characterization combines the outputs of the exposure and toxicity assessments to estimate the potential for adverse effects in the exposed populations. The output of risk characterization provides the key elements for risk management and supports remedial decision-making. Non-carcinogenic and carcinogenic risks are predicted and evaluated separately. No carcinogenic COPCs were identified through the screening process.

Non-Cancer Effects

Non-cancer health effects were evaluated through comparison of estimated intake with the reference dose. The ratio (CDI/RfD) is called the hazard quotient (HQ). The HQ is a simple numerical index used to determine whether exposure presents a potential health

risk. It does not, however, represent the probability or severity of the effect. When the HQ exceeds 1, the potential exists for non-cancer health risks.

When non-cancer effects associated with exposure to multiple chemicals are possible, they are estimated by a hazard index (HI). The HI is a summation of the individual HQs associated with exposure to all chemicals through all related and relevant exposure pathways. This assumption of additive effect does not consider synergistic or antagonistic mechanisms.

An HI above 1 indicates that a potential health risk may be posed. HI greater than 1 must be interpreted with caution, however, because the dose-response curves and the target organ/primary effects for the individual chemicals may differ. Additionally, uncertainty and modifying factors often differ by orders of magnitude (as a function of experimental conditions and overall database quality) between chemicals indicating the RfDs vary in terms of the level of confidence that can be placed in them. When an HI exceeds 1, USEPA guidance recommends that the non-cancer hazard assessment further segregate based on common target organ or effect. This was not an issue for the ELMCO HHRA as only a single COPC was identified.

Cancer Risks

For carcinogens, USEPA has established a target risk range of 10^{-4} to 10^{-6} (1 in 10000 to 1 in 1000000 chance of developing cancer). Generally, risks below 10^{-6} warrant no further action while those above 10^{-4} indicate some form of action will be needed. Cancer risks within the range may not warrant remedial action. For the ELMCO HHRA, a cancer risk target of 10^{-5} (1 in 100000) was established. Because no carcinogenic COPCs were identified, however, no discussion of cancer risk is provided.

Risk Characterization Results

Hazard (along with CDI) calculations for surface water and ambient air routes are presented in Tables 14 and 15, respectively. Total non-cancer hazard estimates were rounded to the nearest single digit. Discussions focus on risk and hazard associated with 'reasonable maximum exposure' (RME) unless otherwise specified. Risk and hazard summaries are discussed below.

Current Resident: Non-cancer hazard associated with exposure to surface water and ambient air may be summarized as follows:

- *Non-cancer HI*
  - 0.5: Associated primarily with exposure to toluene in surface water (HQ = 0.4).

- *Chemicals of Concern*: None

- *Discussion*: Non-cancer findings are not actionable as the hazard index was less than 1. Conservative EPC assumptions for both surface water and ambient air increase the confidence in this conclusion. Only data from surface water locations expected to be

maximally impacted were considered. Ambient air results from areas proximal to residences were consistently below risk-based screening values. Only one of four recent samples collected near the BGA school exceeded the toluene screening value.

Table 16 provides a summary of cancer risk, non-carcinogenic hazard and chemicals of concern (COC) for the current resident scenario under RME assumptions.

2.5 UNCERTAINTY ANALYSIS

Inherent in any risk evaluation are uncertainties related to the data used, exposure assessment assumptions made, toxicological values applied and the general characterization framework. The following discusses some of the primary sources of uncertainty related to the HHRA.

Uncertainties Associated with Data Used

Data Quality Issues
Censored data were handled in a consistent manner. One-half the detection (or reporting) was substituted for non-detect results. Where limits were inadequate to allow for definitive risk-based screening (human health and/or ecological), non-detect data were excluded from the final statistical dataset.

Analytical suites differed between studies and media. Aqueous media were generally analyzed for all compounds included in the USEPA 8260B method. For air samples, focus was placed on the primary contaminants (acetone and toluene) and benzene. Where a particular group of contaminants (ex. semi-volatiles) was not analyzed, it was assumed that the associated compounds were not present. This is a reasonable assumption as analytical suites were ostensibly determined based upon the suspected contaminant sources.

All data used to perform the HHRA were subjected to some degree of data quality assessment. However, no formal data validation or quality assessment reports were provided.

For ELMCO (and related) studies, quantification targets were generally adequate to provide for definitive screening assessment. An exception was consistently noted for benzene in air samples. The benzene detection limits were as follows for the various air sampling studies that produced data used in the HHRA.

Air Locations	Dates	Detection Limits	Units
BGA School	3/7/2007	0.094 – 0.26	mg/m3
Residences	4/12/2007	0.04	mg/m3
Ambient	4/28-5/19/2008	0.006	mg/m3

Based on these limits, definitive screening against a conservative risk-based concentration (0.00031 mg/m3) was not possible. In order to evaluate the subject further,

a simplifying assumption was made that the ratio of toluene to benzene in air samples would be comparable to that in the source term (Henry's law constants are similar).

The source of airborne toluene and benzene would be expected to be seeps or impacted surface water in the area. Toluene/benzene (T/B) ratios were computed for associated sources during periods around each of the air sampling events. Results were also spatially segregated with Liberty Creek results compared with nearby air monitoring locations (BGA, Residences and TI-1, -2A, 3 and 4) and Harpeth River seep results associated with monitoring location TI-5. Reported airborne toluene results were then divided by the respective ratios to estimate the maximum potential benzene concentration in air.

As shown below, the predicted maximum benzene concentration for each sampling event and area was below the conservative screening value. It is important to note that benzene was not detected in any of the 41 air samples collected to date in the vicinity of the ELMCO facility. Although some uncertainty remains due to the theoretical basis of the estimates, the results of this analysis provide some confidence that airborne benzene concentrations were below health protective levels during previous air monitoring events.

Area	Assumed Source Medium	Dates	Mean T/B Ratio	Average Air Toluene		Estimated Benzene Level	Units
Liberty Creek	Seep	5/18-24/2007	776	0.0613	a,b	0.000079	mg/m3
	Surface water	5/18-24/2007	420	0.0613	a,b	0.00014	mg/m3
Liberty Creek	Seep	5/18-24/2007	776	0.073	c	0.000094	mg/m3
	Surface water	5/18-24/2007	420	0.073	c	0.00017	mg/m3
Liberty Creek	Seep	1/28-5/7/2008	510	0.1033	d	0.0002	mg/m3
	Surface water	1/28-5/7/2008	471	0.1033	d	0.00022	mg/m3
Harpeth River	Seep	1/28-5/7/2008	420	0.015	e	0.000049	mg/m3

Notes:

a – applies to BGA school (AS) results (3/7/2007)
b - 5 of 6 non-detect for toluene
c – applies to samples collected from residences (AR) (4/12/2007)
d – applies to ambient air samples from locations TI-1, TI-2A, TI-3 and TI-4 (4/28-5/19/2008)
e – applies to ambient air samples from location TI-5 (4/28-5/19/2008)

Sampling Design Issues

Current site conditions were established as those that existed during most recent sampling events for each medium. In some instances (residential and school air), substantial source reductions have occurred since the sampling events relied upon for the HHRA. As a result, higher confidence can be placed in the screening level conclusions for those media.

Contaminated soils also exist in the Liberty Creek floodplain, including at the seep locations and a soil pile from excavation of an interceptor trench. However, the soils in this area – which is being actively used to remediate the subsurface flow of free-product solvent – have not yet been adequately characterized, and are not addressed in this assessment. The area is fenced to prevent access as cleanup actions continue. Based on the characteristics of the primary contaminants, significant volatilization from surface

materials would be expected and EPCs may be relatively low. Lack of data for these areas does, however, add uncertainty to the overall assessment.

The surface water and air sampling efforts employed a biased approach; using a judgment or search based sampling design rather than random allocation of samples. For surface water and ambient air, additional randomly allocated sample locations would have been expected to produce lower results. As a result, the sampling approach employed is considered conservative.

Three households were monitored for residential air quality. The residences and sampling points were preferentially selected to represent 'worst-case' conditions. Homes directly over or adjacent the limestone 'cutter' believed to have conveyed free product from the ELMCO pipe leak area to seeps along Liberty Creek were chosen. Within each home, areas expected to provide reasonable maximum concentration estimates, including basements or crawlspaces, were monitored. In some instances, alternate household sources (paint thinners, gas cans) of detected compounds were present but this information was not used to qualify findings. Although there is some potential for preferential migration paths that may not have been captured in the investigative scope, the biased approach to sampling, observed dissipation in the strength of sources that might affect vapor intrusion potential, and detected concentrations consistently below actionable levels lend confidence to associated conclusions.

Exposure Assessment

The exposure assessment defined the conditions under which individuals could come into contact with affected media. The definition of these conditions had a significant bearing on exposure estimates. The following paragraphs discuss specific aspects of the exposure assessment that introduce uncertainty in the screening evaluation.

Exposure Routes/Pathways

Soil pathways were discounted due to the subsurface nature of the original release. As a result, no formal analysis was performed. It is possible that soils immediately surrounding seeps could be affected. These materials would represent a small fraction of the total soil area to which an individual may be exposed. Furthermore, the volatile nature of the primary contaminants would likely lead to rapid loss. As a result, omission of soil pathways is not expected to result in significant underestimation of overall risk. Groundwater is not currently used for any purpose as discussed earlier.

Exposure Assumptions

No site-specific information was available upon which to base exposure assessment assumptions. Default exposure assumptions were used where applicable to the exposure scenarios developed. In the absence of default values or where they lacked site-specific applicability, best professional judgment was used. Primary exposure assumptions were selected to reflect reasonable maximum exposure.

For direct ambient air-related routes, standard conservative default assumptions were generally used to quantify exposure. Due to the characteristics of Liberty Creek, surface

water exposure assumptions were chosen to reflect infrequent wading. Use of default body weight and ingestion/inhalation rates could overestimate or underestimate average exposure. These assumptions are expected to provide a reasonably conservative outcome on average although exposure frequencies may be the least certain of the primary assumptions.

Scenario- and Receptor-Specific Assumptions

Residential

Adverse weather conditions, modern activity patterns and time spent away from the home would all suggest that a residential exposure frequency of 350 days/year is extremely conservative. Children (and adults) are unlikely to spend much time outdoors on rainy, snowy or cold days. Furthermore, recent studies have shown that children spend far less time outside in general than was the case in previous generations. The ambient air inhalation rates assumed are expected to overestimate exposure. Household air quality results were lower than those for ambient air. All these factors combined would suggest overestimation of air-related exposure based on default assumptions.

Recreational

Due to the lack of specific information regarding trespasser access to the site, conservative exposure frequency assumptions were made for children and adults (50 days/year). Topography and the lack of a fishery in Liberty Creek would tend to limit its attractiveness for frequent recreational activity. As a consequence, assumptions and remedial decisions based upon them are expected to remain conservative. The chance that future recreational use-related hazard and/or risk are overestimated based on these assumptions is moderate. Recreational exposure frequency will be dependent upon access controls and the key features that might draw individuals to the site.

For recreational users, it was assumed that all exposure, during these activities, would be in the most heavily contaminated portions of Liberty Creek. It is more likely that these individuals would spend only a fraction of their time downstream of the seeps with the remainder spent in other reaches without significant contamination. As a result, exposure to site-related contaminants would be less than estimated and the BRA would overestimate average daily exposure to COPCs.

Exposure Point Concentrations

For each area/medium, it was assumed that most recent results were representative of the range and distribution that would be observed in a random sample. Random exposure throughout the respective exposure units was assumed for all scenarios. In the case of future residential uses, the decision scale may be smaller than the EU defined by the air sampling network. As stated earlier, ambient air results from areas immediately adjacent Daniels Drive homes were consistently lower than observed at other locations. As a result, the air EPC is expected to overstate long-term residential exposure.

With respect to recreational activities, certain surface water features may lead individuals to return to particular locations more often rather than being uniformly exposed to materials throughout the Liberty Creek corridor. Conversely, some locations may

seldom, if ever, be visited. The biased sampling design which excluded upstream (background) locations and use of data only from the most heavily impact stream reaches likely resulted in a positively biased estimate of surface water concentrations that may be contacted on a long-term basis.

Ambient air and surface water concentrations are expected to decline as the strength of principal sources (stream bank seeps) continue to dissipate. Over the long-term, this should result in reduced exposure to local receptors.

Uncertainties Associated with Toxicity Assessment

Considerable uncertainty can be attributed to the toxicological values used in risk evaluation. Their derivation often relies on extrapolation of acute responses to chronic responses, between species or populations (general to sensitive or vice versa) and from dosing sequences or rates not representative of exposure in the context of environmental contamination. The following discussions provide details relevant to the ELMCO HHRA.

Derivation of reference doses (RfD) usually involves animal study results. Uncertainty factors (UF) are applied to provide additional margins of safety when extrapolating results to the human population. UF are assigned based on the study subjects (animal/human) and duration (acute/chronic). Modifying factors (MF) may also be assigned to reflect deficiencies in the studies or general toxicological database related to potential adverse effects. The higher the combined UF/MF, the less confidence that can be placed in the applicability to humans under chronic exposure conditions. Factors for constituents detected in the Isabella FFS area ranged from 300 (benzene) to 3,000 (toluene).

Uncertainties Associated with the Risk Evaluation

The HHRA was structured to provide conclusions under the conservative assumption of reasonable maximum exposure. The use of biased sampling results with an investigative focus on more impacted areas adds further to the conservatism of the evaluation.

2.6 HHRA CONCLUSIONS

Based on screening analysis, toluene was the only COPC identified for ambient air and surface water-related pathways, and it poses only non-cancer risks.. Non-cancer risks were quantified with a cumulative hazard index of less than 1; indicating no action was required to protect human health. Some uncertainty exists due to various factors including less than optimal benzene quantitation limits in air and the absence of soil data adjacent seeps. There are currently no documented groundwater uses on or in the vicinity of the ELMCO facility. Municipal water is available to local residents and a review found that it was the exclusive source of potable supply in the area. As a consequence, no completed groundwater exposure pathways were identified and no quantitative assessment of groundwater risks was performed. In the event of any proposed changes in local groundwater use, additional evaluation may be warranted.

3.0 ECOLOGICAL RISK ASSESSMENT

The purpose of the streamlined ecological risk assessment (ERA) is to provide risk-based interpretations of site data and conservative estimates of risk posed by chemicals present in site media. The assessment was performed in general accordance with guidance available from USEPA (USEPA 1997, 1998, 1999).

3.1 PROBLEM FORMULATION

Site Background
The site background and physical setting are discussed in the introductory text and the CAP.

Management Goal, Assessment Endpoints and Measures of Effect
The ERA was designed to support the remedial action objective for the ELMCO facility CAP. Due to the nature of the release from the former transfer pipe leak at the facility as well as chemical characteristics, the sole focus of the ERA was surface water-related resources. The objective addressed in this ERA is:

- Protect aquatic receptors in Liberty Creek and the Harpeth River from volatile organic compounds entering the respective water bodies through bank seeps.

The remedial decision associated with this objective is:

- What actions (if any) are necessary to control introduction of volatile organic compounds to streams surrounding the ELMCO facility and/or to remove said contaminants once they enter?

The assessment endpoints relevant to supporting these decisions are:

- Diversity and productivity of benthic macroinvertebrate communities,
- Survival and reproduction of fish.

The benthic macroinvertebrate and fish communities are to be protected or restored so that they are comparable to those which would be reasonably anticipated in each of the subject streams.

Concentrations of chemicals in surface water are the measurement endpoints for each assessment endpoint. Based on the streamlined nature of the ERA, no species-specific dose-response evaluations were performed. Previous TDEC findings and statements, as documented in responses to comments on the original CAP submittal, were also incorporated to reach conclusions regarding the current risks posed to aquatic ecosystems.

Identification of Chemicals of Potential Ecological Concern (COPECs)

The same datasets assembled to support the human health risk assessment were used for the ERA. Data considered for inclusion in the ERA are presented in Attachment A. Background screening was not incorporated into the COPEC selection process as no reference locations have been sampled to date. Additional screening was performed to reduce the number of chemicals addressed in the ERA; these steps are discussed below.

Frequency of Detection

Chemicals that were not detected in any sample were not considered; no formal minimum frequency cutoff criteria were applied in the COPEC identification process. Frequency of detection was, however, considered as a supplemental criterion for eliminating some chemicals from formal assessment.

Comparison to Risk-Based Concentrations

Maximum detected concentrations in exposure media were compared to conservative risk-based screening concentrations. All screening values were based on NOAEL levels where available. A detailed discussion of the screening values as well as their application is provided below.

Surface-water data were screened by comparing maximum detected concentrations to conservative ecological benchmarks. TDEC (2006) and USEPA (2006) water quality criteria (WQC) were reviewed as the primary sources for screening values. None of the chemicals present in surface water was found to have a numeric WQC relevant to protection of fish and aquatic life. Other sources were used in order to provide values for as many detected chemicals as possible. Screening values used in this assessment are presented in Table 17.

The screening process addressed Liberty Creek and the Harpeth River separately. The former is a small suburban tributary stream characterized by variable (although generally low) flow which has been impacted by seeps emanating from its left (east) bank. According to TDEC, the stream has not and currently does not support a resident sport fishery. The latter is a sizeable water body reportedly capable of sustaining a sport fishery. Available data also indicates they have been differentially impacted by the ELMCO site.

The results of the surface water screening analyses are presented in Tables 18 and 19. Acetone and toluene were identified as COPECs in Liberty Creek surface water. Toluene was the sole COPEC indicated for the Harpeth River.

3.2 ANALYSIS

The analysis step involved characterizing the habitat types present in the watershed, quantifying potential exposure, and evaluating the potential effects of the exposures on representative types of exposed organisms.

Ecosystem Characterization
The only habitat type considered for either watershed was riverine. The streams addressed in the ERA are described below.

Liberty Creek is a characteristic small suburban stream with flashy flow in response to storm events and subject to numerous insults. The stream is generally shallow (< 1 foot) with an incised channel. Riffles are relatively infrequent spaced between sluggish runs and/or stagnant pools; particularly during low flow periods. Limited observation indicates riparian vegetative cover is generally good although the canopy is limited in some areas. Stream hydrodynamics lead to frequent reshaping of gravel (and finer) substrates in response to storms and there is visual evidence of past channelization. Insults may include fertilizers and lawn care chemicals, road wash and general sedimentation along with elevated temperatures exacerbated by its shallow depth and incomplete canopy. In low velocity reaches, substrates have been observed to be covered by a mix of inorganic sediments and organic detrital matter; the latter potentially responsible for a sewage odor. These factors may also create low dissolved oxygen conditions in some reaches. Based on qualitative observations, Liberty Creek conditions are generally fair to poor throughout its watershed. As a consequence, the reference watershed aquatic ecosystem would be expected to be less than optimal.

The Harpeth River is prominent regional feature with an 870 square mile watershed and a total length of 125 miles. It winds through the City of Franklin passing just south of the ELMCO facility. In the vicinity of the site, it has a narrow riparian corridor regularly infringed upon by development including lawns, roadways, buildings and parking areas. Due to its size, canopy cover is incomplete for the entire subject reach. During the 2007 drought, flow near the site was measured at less than 5 cubic feet per second (cfs) although the norm is likely in excess of 100 cfs. The Harpeth is subject to the same insults as Liberty Creek over a broader area. Low dissolved oxygen episodes have been documented during warm weather periods in areas unaffected by the ELMCO facility. No specific reconnaissance has been performed to assess in-stream conditions. The preceding factors suggest that the reference Harpeth River aquatic ecosystem would be less than ideal.

Exposure Characterization
Potential exposures to surface water receptors were quantified based on individual sample results rather than on area-wide or site-wide averages. For Liberty Creek, results from five 2008 sampling events were used. Data from four Harpeth River sampling events (10/21/2007 – 3/18/2008) were considered. Aquatic organisms were assumed to be exposed to water present at the sampled locations throughout their lifetimes.

Effects Characterization
Surface water-related effects were characterized based upon multiple lines of evidence. The first was comparison to chronic water quality criteria or, if no criterion was available, screening benchmarks obtained from EPA Region IV or other sources. These values were identical to those used for COPEC screening. Other lines of evidence included

toxicity tests performed by TDEC as well as technical conclusions rendered by TDEC in response to comments on the previous CAP submittal.

3.3 RISK CHARACTERIZATION

The risk characterizations for Liberty Creek and the Harpeth River are presented separately. The preceding problem formulation and ecosystem, exposure and effects characterizations were combined to quantify ecological risk associated with contaminated surface water in each stream.

A hazard quotient/hazard index (HQ/HI) approach was used to estimate potential surface water toxicity/risk. HQ values were calculated for individual COPECs as follows:

HQ = (detected concentration /chronic ecological screening value)

HI values are the sum of risks from all COPECs and were calculated as follows:

$$\mathbf{HI = \Sigma HQ}$$

Toxic effects were assumed to be additive for all COPECs regardless of the toxic endpoint or exposure route.

Hazard quotients and hazard indices were computed on a sample-specific basis to facilitate temporal and spatial analysis (Table 20). An HI (or HQ) greater than 1 was considered to demonstrate possible risk to aquatic receptors. An HI above 10 was interpreted to indicate probable effects. Other lines of evidence are also discussed.

Liberty Creek

Surface water hazard indices exceeded 15 during each sampling round at all locations (Table 20). Toluene was the primary (>90%) contributor in each instance. The average HI at the 'Watergate' location (upstream of the main seep) was 25 while that at the Personnel Crossing (LC-PC) was 35. Although the average HI at 'Watergate' was lower, the computed value for this location was occasionally higher than that downstream of the main seep on the same date.

TDEC conducted acute toxicity testing using water from an unspecified location in Liberty Creek in February 2007. Slight toxicity was indicated for the water flea (Ceriodaphnia dubia) while the waters were not acutely toxic to fathead minnows (Pimephales promelas). These findings were consistent with expectations based on LC_{50} thresholds for fish and benthic organisms provided in USEPA's AQUIRE database. It should be noted that water quality was worse at the time these tests were performed. In particular, toluene concentrations were substantially higher on average than observed in 2008.

The computed chronic HIs suggest that survival, growth and/or reproduction of aquatic life in the affected reach could be negatively impacted by long-term exposure under prevailing conditions. TDEC has previously stated that the impacts on aquatic organisms are likely to be severe downstream of source areas due to low dissolved oxygen levels

caused by proliferation (and subsequent death) of aquatic flora purportedly induced by site-related contaminants. It is not known whether low dissolved oxygen levels were confirmed.

Harpeth River

Surface water hazard indices did not exceed one (1) for any sampling event at either Harpeth River sampling location (Table 20). Toluene was the only COPEC. The maximum HIs were computed based on sampled collected during low flow conditions in October/November 2007. As flow returned to more typical levels in December 2007/early 2008, instream COPEC concentrations dropped significantly. As a result, no adverse chronic (or acute) effects are predicted.

TDEC previously concluded with confidence that the COPEC concentrations observed in the Harpeth River posed no toxicity threat to aquatic life. The ERA findings were consistent with those assertions. TDEC did indicate negative effects on benthic organisms were likely in isolated areas due to low dissolved oxygen episodes associated with the proliferation (and subsequent death) of aquatic flora adjacent source seeps. No fish kills have been documented in response to these occurrences.

3.4 ERA CONCLUSIONS AND PRELIMINARY REMEDIATION GOALS

Under current conditions, fish and benthic organisms are potentially at risk in Liberty Creek due to the presence of volatile contaminants in surface water. Episodic low dissolved oxygen periods are reportedly possible where contaminants induce eutrophic conditions which could affect resident faunal populations.

In the Harpeth River, recent data does not indicate that significant risks are posed to aquatic organisms in direct association with volatile contaminants emanating from bank seeps. Low dissolved oxygen effects on benthic organisms in isolated areas immediately adjacent seeps are not expected to have a quantifiable effect on the overall river ecosystem.

In the absence of information showing that concentrations higher than the available screening levels would be protective, the water-quality screening values used in the ERA for acetone and toluene are suggested as Liberty Creek preliminary remediation goals. Toxicological data from multiple on-line sources as well as reference stream conditions suggests that the chronic screening values may be unnecessarily conservative as quantitative remedial goals. Chronic toxicity tests may be used to estimate tolerable acetone and toluene concentrations under site-specific conditions. Maintenance of dissolved oxygen at levels comparable to upstream reference areas is also recommended.

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Table 1 - Location Descriptions, Sampling Dates and Sample Matrices
ELMCO Facility, Franklin, TN

Location Name	Location Description	Sampling Dates	Sample Matrix
AR-1	At release point	4/18/2007, 10/1/2007, 10/12/2007, 2/21/2008, 6/3/2008	WG
BGA-1	BGA interior	3/7/2007	AS
BGA-2	BGA interior	3/7/2007	AS
BGA-3	BGA interior	3/7/2007	AS
BGA-4	BGA interior	3/7/2007	AS
BGA-5	BGA interior	3/7/2007	AS
BGA-6	BGA interior	3/7/2007	AS
HR-2	Harpeth River seep, just u.s. of RR bridge	5/18/2007, 5/24/2007, 6/1/2007, 6/8/2007, 7/9/2007, 8/8/2007, 9/19/2007, 10/12/2007, 11/9/2007, 12/10/2007, 1/28/2008, 2/21/2008, 5/7/2008, 5/18/2008	SEEP
HR-3	Harpeth River seep, 175 ft. u.s. of RR bridge	5/18/2007, 5/24/2007, 6/1/2007, 6/8/2007	SEEP
LC-MS	Liberty Creek main seep	6/1/2007, 6/8/2007, 7/9/2007, 8/8/2007, 9/19/2007, 10/12/2007, 11/9/2007, 12/10/2007, 1/28/2008, 2/15/2008, 4/2/2008, 5/7/2008	SEEP
LC-MS	Liberty Creek main seep	5/18/2007, 5/24/2007	WS
LC-PC	Liberty Creek at Personnel Crossing	5/18/2007, 5/24/2007, 6/1/2007, 6/8/2007, 7/9/2007, 8/8/2007, 9/19/2007, 10/12/2007, 11/9/2007, 12/10/2007, 1/28/2008, 2/21/2008, 5/7/2008	WS
MW-1	400 ft ESE of release site (background?)	4/18/2007, 9/18/2007, 2/21/2008, 3/12/2008, 6/3/2008	WG
MW-2	50 ft S of release site	6/20/2007, 9/19/2007, 2/21/2008, 6/3/2008	WG
MW-3	150 ft N of release site	10/1/2007, 2/21/2008, 6/3/2008	WG
MW-4	Old BGA property, 900 ft NW of release site	2/21/2008, 6/3/2008	WG
MW-5	Daniels Dr., 675 ft N of release site	2/21/2008, 6/3/2008	WG
RES116	116 Daniels Dr., crawlspace	4/12/2007	AR
RES127	127 Daniels Dr., basement	4/12/2007	AR
RES131	131 Daniels Dr., basement	4/12/2007	AR
RW-1	Recovery well at release point	9/18/2007, 10/12/2007, 2/21/2008, 6/3/2008	WG
TDEC HR-A	Harpeth River, u.s. Franklin STP Outfall	10/31/2007, 11/19/2007, 12/19/2007, 3/18/2008	WS
TDEC HR-B	Harpeth River, RB seepage u.s. of Liberty Crk	3/18/2008	SEEP
TDEC HR-C	Harpeth River, u.s. Liberty Creek	10/31/2007, 11/19/2007, 12/19/2007, 3/18/2008	WS
TDEC LC-A	Liberty Creek, behind Old BGA	10/31/2007, 11/19/2007, 12/19/2007, 3/18/2008	WS
TI-1	Adjacent Old BGA School, SE corner	7/16/2007, 8/2/2007, 12/13/2007, 4/28/2008, 5/5/2008, 5/12/2008, 5/19/2008	AA
TI-2	Adjacent Old BGA School, NE corner	7/16/2007, 8/2/2007, 12/13/2007	AA
TI-2A	West side (RB) Liberty Crk at meander	4/28/2008, 5/5/2008, 5/12/2008, 5/19/2008	AA
TI-3	Near interceptor trench	7/16/2007, 8/2/2007, 12/13/2007, 4/28/2008, 5/5/2008, 5/12/2008, 5/19/2008	AA
TI-4	90 ft N of interceptor trench	7/16/2007, 8/2/2007, 12/13/2007, 4/28/2008, 5/5/2008, 5/12/2008, 5/19/2008	AA

Table 1 - Location Descriptions, Sampling Dates and Sample Matrices
ELMCO Facility, Franklin, TN

TI-5	Along Harpeth R. (RB), south of Daniels Dr.	4/28/2008, 5/5/2008, 5/12/2008, 5/19/2008	AA
TI-6	705 W. Statue (remote)	5/5/2008, 5/12/2008, 5/19/2008	AA
TI-7	115 Myles Manor (remote)	5/5/2008, 5/12/2008, 5/19/2008	AA
Watergate	Liberty Creek u.s. of main seep	11/9/2007, 12/10/2007, 1/28/2008, 2/15/2008, 4/2/2008, 5/7/2008	WS

Table 2 - Risk-Based Screening Values for Human Health Effects
ELMCO Human Health Risk Assessment

	Media	Surface Water		Air	
	Scenario	Recreational Trespasser		Residential	
	Units	mg/L		mg/m3	
Parameter	Units	HHSV	Basis	HHSV	Basis
1,2,3-Trimethylbenzene	mg/L	0.42	nc	n/a	n/a
1,2,4-Trimethylbenzene	mg/L	0.35	nc	n/a	n/a
1,3,5-Trimethylbenzene	mg/L	0.60	nc	n/a	n/a
Acetone	mg/L	370	nc	0.14	nc
Benzene	mg/L	0.046	c	0.00031	c
Di isopropyl ether	mg/L	15	nc	n/a	n/a
Ethylbenzene	mg/L	1.6	nc	n/a	n/a
Isopropylbenzene	mg/L	0.843	nc	n/a	n/a
Methylethylketone	mg/L	200	nc	n/a	n/a
n-Propylbenzene	mg/L	0.32	nc	n/a	n/a
Toluene	mg/L	2.0	nc	0.219	nc
Xylenes	mg/L	3.3	nc	n/a	n/a

Notes:

- nc - non-carcinogenic endpoint; carc - carcinogenic endpoint
- Standard exposure assumptions summarized for ELMCO were used to compute screening values unless otherwise noted
- n/a indicates not applicable

Table 3 - Exposure Factors for Recreational Trespassers – Surface Water Routes

ELMCO Human Health Risk Assessment

	Units	Child	Adult	Source
General Exposure Parameters				
Body weight (BW)	kg	15	70	Default body weight from USEPA standard exposure factors
Exposure duration (ED)	yr	6	24	Default duration assumptions for child and adolescent, adult is 30 year maximum minus child ED (where applicable)
Averaging time, non-carcinogenic (ATnc)	days	2190	- -	ED x 365 days/year; most sensitive population only
Averaging time, carcinogenic (ATc)	days	25550		70 yr life expectancy x 365 days/year
Incidental Ingestion Parameters				
Water ingestion rate (IRw)	ml/hr	10		Default value for reasonable maximum exposure, wading
Parameter Concentration ([ ])	mg/L	Chemical-specific		Exposure point concentration
Dermal Parameters				
Skin surface area (SSA)	cm^2	5200	9070	Sum of 50th percentile for hands, arms, head, feet, and legs
Dimensionless ratio: Kp thru stratum corneum/Kp across viable epidermis (B)	Unitless	Chemical-specific		USEPA RAGS Part E
Fraction absorbed water (FA)	Unitless	1		Assumed for all chemicals
Permeability constant (Kp)	cm/hr	Chemical-specific		10^(-2.8 +0.66Kow - 0.0056 MW)
Water concentration (Cw)	mg/cm3	Chemical-specific		Exposure point concentration; units converted
Lag time/event (τ-event)	hr/event	Chemical-specific		0.105 x 10^(0.0056 x MW)
Time to reach steady state (t*)	hr/event	Chemical-specific		2.4 x τ-event; all less than 2 hr
Octanol-water partitition coefficient (Kow)	Unitless	Chemical-specific		From literature
Molecular weight (MW)	g/mole	Chemical-specific		From literature
Pathway-specific Parameters				
Exposure frequency (EF)	days/yr	50	50	1 time/week for 50 weeks
Exposure time (ET)	hr/event	2		2 hours per event was assumed due to restrictions and assumed average recreational outting
Conversion factor, water (CFw)	L/ml	10-3		
Exposure Quantification (Dose) Formulae:				
Non-cancer effects, ingestion	Parameter [ ] x IRw x EF-c x ED-c x CFw x ET /(BW-c x ATnc-c)			
Non-cancer effects, dermal (DAD-nc)	DAevent x EV x ED x EF x SSA/(BW-c x ATnc-c)			

Table 3 - Exposure Factors for Recreational Trespassers – Surface Water Routes

ELMCO Human Health Risk Assessment

Cancer effects, ingestion	Parameter [ ] x IRw x ([{EF-c x ED-c x ET}/BW-c] + [{EF-a x ED-a x ET-a}/BW-a]) x CFw /ATc	
Cancer effects, dermal (DAD-c)	DAevent x EV x ((ED-c x EF-c x SSA-c/BW-c)+(ED-a x EF-a x SSA-a/BW-a))/ATc)	
Absorbed Dose/Event (DAevent) (ET > t*)	(mg/cm2-event)	FA x Kp x Cw x ([ET/1+B]+ 2 x τ-event x [{1 + 3B + 3B^2}/{1+B}^2])

[1] 'a' designator indicates adult exposure factor

[2] 'c' designator indicates child exposure factor

Table 4 - Summary of Human Health Toxicity Values for Direct Contact and Inhalation Routes
ELMCO Facility, Franklin, TN

Parameter	RfD oral (mg/kg/d)	GI abs	Source	RfD derm (mg/kg/d)	UF/MF Factor	RfD Oral Confidence	RfD oral Source	RfD inh (mg/kg/d)	RfC inh (mg/m3)	UF/MF Factor	RfDinh/ RfC Confidence	RfD/RfC inh Source	WoE Class a	SFo (mg/kg/d)-1	SFd (mg/kg/d)-1	SFo Source	Inhalation Unit Risk (/ug/m3)	Inhalation Unit Risk Source	Primary Target Organ
1,2,3-Trimethylbenzene b	0.05	1	Pt E	0.05	NA	NA	Surrogate	0.0017	NA	NA	NA	Surrogate	NA	n/a	n/a	n/a	n/a	n/a	Lungs, skin
1,2,4-Trimethylbenzene	0.05	1	Pt E	0.05	NA	NA	NCEA	0.0017	NA	NA	NA	NCEA	NA	n/a	n/a	n/a	n/a	n/a	Lungs, skin
1,3,5-Trimethylbenzene	0.05	1	Pt E	0.05	NA	NA	NCEA	0.0017	NA	NA	NA	NCEA	NA	n/a	n/a	n/a	n/a	n/a	Lungs, skin
Acetone	0.9	1	Pt E	0.90	1000	Medium	IRIS	0.9	NA	NA	NA	R to R	D	n/a	n/a	n/a	n/a	n/a	Kidney, liver
Benzene e	0.004	1	Pt E	0.004	300	Medium	IRIS	0.0086	0.03	300	Medium	IRIS	A	5.50E-02	5.50E-02	n/a	7.80E-06	IRIS	Blood, clinical signs
Di isopropyl ether	0.11	1	Pt E	0.11	NA	NA	R to R	0.11	NA	NA	NA	NCEA	D	n/a	n/a	n/a	n/a	n/a	CNS, skin/eyes
Ethylbenzene	0.1	1	Pt E	0.1	1000	Low	IRIS	0.295	1	300	Low	IRIS	D	n/a	n/a	n/a	n/a	n/a	Liver/kidney, development
Isopropylbenzene	0.1	1	Pt E	0.1	1000	Low	IRIS	0.11	0.4	1000	Medium	IRIS	D	n/a	n/a	n/a	n/a	n/a	Kidney, adrenal
Methylethylketone	0.6	1	Pt E	0.6	1000	Low	IRIS	1.4	5	300	Medium	IRIS	D	n/a	n/a	n/a	n/a	n/a	Development, skeleton
n-Propylbenzene	0.04	1	Pt E	0.04	NA	NA	NCEA	0.04	NA	NA	NA	R to R	D	n/a	n/a	n/a	n/a	n/a	CNS, skin/eyes
Toluene	0.08	1	Pt E	0.08	3000	Medium	IRIS	1.43	5	10	High	IRIS	D	n/a	n/a	n/a	n/a	n/a	Kidney, neurological
Xylenes	0.2	1	Pt E	0.2	1000	Medium	IRIS	0.029	0.1	300	Medium	IRIS	D	n/a	n/a	n/a	n/a	n/a	Body weight, CNS

Notes:

- IRIS = USEPA's Integrated Risk Information System (online search 6/2008)
- NCEA = USEPA PPRTV from USEPA Region VI Medium-Specific Screening Values Table (2008)
- n/a = not applicable ; NA = not available
- GI abs = gastrointestinal absorption factor
- RfDd = RfDo * GI abs; SFd = Sfo/GI abs
- R to R = Route to route extrapolation

a - Weight of Evidence (WoE) Classification of potential carcinogenicity as used in IRIS

A - Known human carcinogen

B1 - Probable human carcinogen; limited evidence of carcinogenicity in humans

B2 - Probable human carcinogen; adequate evidence in animals; but insufficient evidence in humans

C - Possible human carcinogen

D - Not classifiable as to carcinogenicity/data inadequate to assess carcinogenicity in humans

E - Evidence against carcinogenicity in humans

b - RfDo and RfDi for 1,2,4-TMB used as surrogate

c - RfDo for 2-Methylnaphthalene used as surrogate

d - RfDi for Naphthalene used as surrogate

e - Benzene unit risk-inhalation is actually presented as a range (2.2 - 7.8E-6/ug/m3). The associated oral slope factor is also presented as a range (1.54 - 5.45E-6/mg/kg/day). The upper end of each was used.

- Pt E = Risk Assessment Guidance for Superfund, Volume 1: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim
- DEA = USEPA, Dermal Exposure Assessment: Principles and Applications, EPA/600/8-91/011B January 1992 Interim Report
- EPA IV is USEPA Region IV Supplemental Guidance to RAGS November 1995

Table 5 - Summary of Permeability Coefficients, Absorption Factors and Unit Dermal Dose for Water Exposure
ELMCO Facility, Franklin, TN

Parameter	Kp (cm/hr)	Source	Calculated Kp (cm/hr)	Dermal Abs Factor	Source	MW	log Kow	τ-event	B	t*	FA	Unit DA-event (mg/cm2-event)
1,2,3-Trimethylbenzene	NA		0.09	n/a	Pt E	120.2	3.66	0.495	0.3	1.19	1	2.46E-04
1,2,4-Trimethylbenzene	NA		0.11	n/a	Pt E	120.2	3.78	0.495	0.3	1.19	1	2.95E-04
1,3,5-Trimethylbenzene	NA		0.06	n/a	Pt E	120.2	3.42	0.495	0.3	1.19	1	1.71E-04
Acetone	0.00057	Pt E	0.00052	n/a	Pt E	58.08	-0.24	0.222	0	0.53	1	1.27E-06
Benzene	0.015	Pt E	0.015	n/a	Pt E	78	2.13	0.287	0.1	0.69	1	3.61E-05
Di isopropyl ether	NA		0.004	n/a	Pt E	102.2	1.52	0.392	0.05	0.94	1	1.17E-05
Ethylbenzene	0.049	Pt E	0.048	n/a	Pt E	106.2	3.15	0.413	0.2	0.99	1	1.28E-04
Isopropylbenzene	NA		0.09	n/a	Pt E	120.2	3.66	0.495	0.3	1.19	1	2.46E-04
Methylethylketone	0.00096	Pt E	0.00097	n/a	Pt E	72.11	0.29	0.266	0	0.64	1	2.46E-06
n-Propylbenzene	NA		0.09	n/a	Pt E	120.2	3.69	0.495	0.3	1.19	1	2.58E-04
Toluene	0.031	Pt E	0.031	n/a	Pt E	92.1	2.73	0.344	0.1	0.83	1	7.88E-05
Xylenes	0.053	Pt E	0.05	n/a	Pt E	106.2	3.12	0.413	0.2	0.99	1	1.23E-04

Notes:

- Pt E = Risk Assessment Guidance for Superfund, Volume 1: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim
- EPA IV is USEPA Region IV Supplemental Guidance to RAGS November 1995
- n/a = not applicable ; NA = not available
- Naphthalene used as surrogate for 1-Methynaphthalene and 2-Methylnaphthalene
- Kp calculated as 10^(-2.8 + 0.66(log Kow) - 0.0056MW)

Absorbed Dose/Event (DAevent) (ET > t*) (mg/cm2-event) = FA x Kp x Cw x ([ET/1+B]+ 2 x τ-event x [{1 + 3B + 3B^2}/{1+B}^2])

- ET = 2 hrs per exposure scenario. Unit DAevent calculated assuming 1 mg/L for each parameter using calculated Kp values.
- 'B' values obtained (or estimated from) RAGS, Part E.

Table 6 - Surface Water Screening Analysis - Liberty Creek
ELMCO Human Health Risk Assessment

Parameter	Units	Frequency of Detection	Average Detect	Minimum Detect	Maximum Detect	Location of Maximum	Range of Detection Limits	Human Health Screening Value a	HHSV Basis	Reference	Frequency of Exceedance	Surface Water COPC?	COPC Basis
1,2,3-Trimethylbenzene	mg/L	0 / 8	n/a	n/a	n/a	n/a	0.001 - 0.05	0.42	nc	RBC	0 / 8	No	BSL
1,2,4-Trimethylbenzene	mg/L	1 / 9	0.00055	0.00055	0.00055	LC-A	0.001 - 0.05	0.35	nc	RBC	0 / 9	No	BSL
1,3,5-Trimethylbenzene	mg/L	0 / 9	n/a	n/a	n/a	n/a	0.00019 - 0.05	0.60	nc	RBC	0 / 9	No	BSL
Acetone	mg/L	7 / 9	4.334	0.52	8.8	LC-PC	0.5 - 1	370	nc	RBC	0 / 9	No	BSL
Benzene	mg/L	0 / 8	n/a	n/a	n/a	n/a	0.001 - 0.05	0.046	c	RBC	0 / 8	No	BSL
Di isopropyl ether	mg/L	0 / 8	n/a	n/a	n/a	n/a	0.001 - 0.05	14.9	nc	RBC	0 / 8	No	BSL
Ethylbenzene	mg/L	3 / 9	0.0021	0.0016	0.0028	LC-A	0.01 - 0.05	1.6	nc	RBC	0 / 9	No	BSL
Isopropylbenzene	mg/L	0 / 9	n/a	n/a	n/a	n/a	0.0014 - 0.05	0.84	nc	RBC	0 / 9	No	BSL
Methylethylketone	mg/L	2 / 9	0.0154	0.0148	0.016	LC-PC	0.00056 - 0.5	200	nc	RBC	0 / 9	No	BSL
n-Propylbenzene	mg/L	0 / 9	n/a	n/a	n/a	n/a	0.00037 - 0.05	0.32	nc	RBC	0 / 9	No	BSL
Toluene	mg/L	9 / 9	5.378	2.6	8.1	LC-PC	n/a - n/a	2.0	nc	RBC	9 / 9	YES	BSL
Xylenes	mg/L	3 / 9	0.0094	0.0069	0.0113	LC-A	0.03 - 0.15	3.3	nc	RBC	0 / 9	No	BSL

Notes:

- NA = not applicable
- nc = non-carcinogenic endpoint; c = carcinogenic endpoint
- TDEC has not analyzed surface water samples for 1,2,3-Trimethylbenzene, benzene or diisopropylether to date.

a - RBC = site-specific risk based concentration based on most conservative scenario applicable to this area (current recreational user) using conservative recreational scenario assumptions.

- ASL = Above screening level; BSL = Below screening level

Table 7 - Surface Water Screening Analysis - Harpeth River
ELMCO Human Health Risk Assessment

Parameter	Units	Frequency of Detection	Average Detect	Minimum Detect	Maximum Detect	Location of Maximum	Range of Detection Limits	Human Health Screening Value a	HHSV Basis	Reference	Frequency of Exceedance	Surface Water COPC ?	COPC Basis
1,2,3-Trimethylbenzene	mg/L	- - / - -	n/a	n/a	n/a	n/a	n/a - n/a	0.42	nc	RBC	- - / - -	No	BSL
1,2,4-Trimethylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0002 - 0.0002	0.35	nc	RBC	0 / 2	No	BSL
1,3,5-Trimethylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.00019 - 0.00019	0.60	nc	RBC	0 / 2	No	BSL
Acetone	mg/L	7 / 8	0.1459	0.00115	0.443	HR-C	0.0023 - 0.0023	370	nc	RBC	0 / 8	No	BSL
Benzene	mg/L	- - / - -	n/a	n/a	n/a	n/a	n/a - n/a	0.046	c	RBC	- - / - -	No	BSL
Di isopropyl ether	mg/L	- - / - -	n/a	n/a	n/a	n/a	n/a - n/a	14.9	nc	RBC	- - / - -	No	BSL
Ethylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.00009 - 0.00009	1.6	nc	RBC	0 / 2	No	BSL
Isopropylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.00014 - 0.00014	0.84	nc	RBC	0 / 2	No	BSL
Methylethylketone	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.00056 - 0.00056	200	nc	RBC	0 / 2	No	BSL
n-Propylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.00037 - 0.00037	0.32	nc	RBC	0 / 2	No	BSL
Toluene	mg/L	8 / 8	0.0629	0.0066	0.193	HR-C	n/a - n/a	2.0	nc	RBC	0 / 8	No	BSL
Xylenes	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0018 - 0.0018	3.3	nc	RBC	0 / 2	No	BSL

Notes:

- NA = not applicable
- nc = non-carcinogenic endpoint; c = carcinogenic endpoint
- "- -" indicates TDEC has not analyzed surface water samples for 1,2,3-Trimethylbenzene, benzene or diisopropylether to date; ELMCO has conducted no Harpeth River sampling.

a - RBC = site-specific risk based concentration based on most conservative scenario applicable to this area (current recreational user) using conservative recreational scenario assumptions.

- ASL = Above screening level; BSL = Below screening level

Table 8 - Exposure Factors for Residential – Air Pathway

ELMCO Human Health Risk Assessment

	Units	Child	Adult	Source
General Exposure Parameters				
Body weight (BW)	kg	15	70	Default body weight from USEPA standard exposure factors
Exposure duration (ED)	yr	6	24	Default duration from USEPA standard exposure factors
Averaging time, non-carcinogenic (ATnc)	days	2190	- -	ED x 365 days/year; most sensitive population only
Averaging time, carcinogenic (ATc)	days	25550		70 yr life expectancy x 365 days/year
Inhalation Parameters				
Inhalation Rate (IRa)	m3/d	10	20	Default from USEPA standard exposure factors
Parameter Concentration ([ ])	mg/m3	Chemical-specific		Exposure point concentration
Pathway-specific Parameters				
Exposure frequency (EF)	days/yr	350	350	Default frequency from USEPA standard exposure factors
Site exposure fraction (SEF)	unitless	1		Individuals resides and spends majority of time in area
Exposure Quantification Formulae:				
Non-cancer effects, inhalation	Parameter [ ] x IRa-c x EF-c x ED-c/(BW-c x ATnc-c)			
Cancer effects, inhalation	Parameter [ ] x ([IRa-c x EF-c x ED-c/BW-c] + [IRa-a x EF-a x ED-a/BW-a])/ATc)			

[1] 'a' designator indicates adult exposure factor

[2] 'c' designator indicates child exposure factor

- Benzene screening value computed using unit inhalation risk values.

Table 9 - Battleground Academy Lower School Air Screening Analysis
ELMCO Human Health Risk Assessment

Parameter	Units	Frequency of Detection	Average Detect	Minimum Detect	Maximum Detect	Location of Maximum	Range of Detection Limits	Human Health Screening Value a	HHSV Basis	Reference	Frequency of Exceedance	Household Air COPC?	COPC Basis
Acetone	mg/m3	0 / 6	n/a	n/a	n/a	n/a	0.13 - 0.34	0.14	nc	RBC	0 / 6	No b	ND
Benzene	mg/m3	0 / 6	n/a	n/a	n/a	n/a	0.094 - 0.26	0.00031	c	RBC	0 / 6	No c	ND
Toluene	mg/m3	1 / 6	0.077	0.077	0.077	BGA-3	0.089 - 0.17	0.219	nc	RBC	0 / 6	No	BSL

Notes:

- n/a = not applicable
- nc = non-carcinogenic endpoint; c = carcinogenic endpoint

a - RBC = site-specific risk based concentration based on most conservative scenario applicable to this area (current resident) using USEPA default exposure assumptions. Benzene screening value computed using unit inhalation risk values.

b - Acetone detection limit is above human health screening value

c - Benzene detection limit is above human health screening value

- ND = Non-detect in all samples; ASL = Above screening level; BSL = Below screening level

Table 10 - Residential Air Screening Analysis
ELMCO Human Health Risk Assessment

Parameter	Units	Frequency of Detection	Average Detect	Minimum Detect	Maximum Detect	Location of Maximum	Range of Detection Limits	Human Health Screening Value a	HHSV Basis	Reference	Frequency of Exceedance	Household Air COPC?	COPC Basis
Acetone	mg/m3	2 / 3	0.061	0.058	0.063	116 Daniels	0.058 - 0.058	0.14	nc	RBC	0 / 3	No	BSL
Benzene	mg/m3	0 / 3	n/a	n/a	n/a	n/a	0.04 - 0.04	0.00031	c	ORNL	0 / 3	No b	ND
Toluene	mg/m3	1 / 3	0.073	0.073	0.073	131 Daniels	0.046 - 0.047	0.219	nc	RBC	0 / 3	No	BSL

Notes:

- n/a = not applicable

- nc = non-carcinogenic endpoint; c = carcinogenic endpoint

a - RBC = site-specific risk based concentration based on most conservative scenario applicable to this area (current resident) using USEPA default exposure assumptions. Benzene screening value computed using unit inhalation risk values.

b - Benzene detection limit is above human health screening value

- ND = Non-detect in all samples; ASL = Above screening level; BSL = Below screening level

Table 11 - Ambient Air Screening Analysis
ELMCO Human Health Risk Assessment

Parameter	Units	Frequency of Detection	Average Detect	Minimum Detect	Maximum Detect	Location of Maximum	Range of Detection Limits	Human Health Screening Value a	HHSV Basis	Reference	Frequency of Exceedance	Ambient Air COPC?	COPC Basis
Acetone	mg/m3	5 / 26	0.018	0.01	0.03	TI-2A	0.01 - 0.01	0.14	nc	RBC	0 / 26	No	BSL
Benzene	mg/m3	0 / 26	n/a	n/a	n/a	n/a	0.04 - 0.04	0.00031	c	RBC	0 / 26	No b	ND
Toluene	mg/m3	18 / 26	0.125	0.02	0.42	TI-2A	0.02 - 0.02	0.219	nc	RBC	10 / 26	YES	ASL

Notes:

- n/a = not applicable

- nc = non-carcinogenic endpoint; c = carcinogenic endpoint

a - RBC = site-specific risk based concentration based on most conservative scenario applicable to this area (current resident) using USEPA default exposure assumptions. Benzene screening value computed using unit inhalation risk values.

b - Benzene detection limit is above human health screening value

- ND = Non-detect in all samples; ASL = Above screening level; BSL = Below screening level

Table 12 - Surface Water Exposure Point Concentrations
ELMCO Human Health Risk Assessment

Timeframe: Current
Area: Liberty Creek below Main Seep
Scenario(s): RecreationalUser
Medium: Water
Exposure Medium: Surface Water

					Exposure Point Concentration		
Parameter	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Detect	Value	Statistic	Rationale
Toluene	mg/L	6.3	7.77 Norm	8.1	7.77	Student's t UCL	S-W

Notes:
- NA = not applicable
- G = gamma distribution; L = lognormal distribution; N = non-parametric distribution; Norm = normal distribution
- Approx gamma = approximate gamma; H-UCL = 95% UCL per Land; Student's t UCL = 95% UCL of mean by standard Student's method; 99% Chebyshev (mean) = standard Chebyshev 99% UCL of mean; 99% Chebyshev = Chebyshev minimum variance unbiased estimate UCL of me
- K-S = Kolmogorov-Smirnov Test; S-W - Shapiro-Wilks Test (for normality)
- Statistical analysis peformed using USEPA's ProUCL Version 3.0

Table 13 - Ambient Air Exposure Point Concentrations
ELMCO Human Health Risk Assessment

Timeframe: Current
Area: Backyards/Open Areas around Liberty Creek
Scenario(s): Residential
Medium: Ambient Air
Exposure Medium: Air

					Exposure Point Concentration		
Parameter	Units	Arithmetic Mean	95% UCL (Distribution)	Maximum Detect	Value	Statistic	Rationale
Toluene	mg/m3	0.1136	0.18 G	0.42	0.18	Approx gamma	K-S

Notes:
- NA = not applicable
- G = gamma distribution; L = lognormal distribution; N = non-parametric distribution; Norm = normal distribution
- Approx gamma = approximate gamma; H-UCL = 95% UCL per Land; Student's t UCL = 95% UCL of mean by standard Student's method; 99% Chebyshev (mean) = standard Chebyshev 99% UCL of mean; 99% Chebyshev = Chebyshev minimum variance unbiased estimate UCL of me
- K-S = Kolmogorov-Smirnov Test; S-W - Shapiro-Wilks Test (for normality)
- Statistical analysis peformed using USEPA's ProUCL Version 3.0

Table 14 - Surface Water Cancer Risk and Non-Cancer Hazards - Liberty Creek
ELMCO Human Health Risk Assessment

Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Child/Adult

							Cancer Risk Calculations			Non-Cancer Hazard Calculations		
Medium	Exposure Medium	Exposure Point	Exposure Route	Parameter	Units	EPC	Average Daily Intake	CSF	Cancer Risk	Average Daily Intake	RfD	Hazard Quotient
Water	Surface Water	Along Liberty Creek below Main Seep	Ingestion	Toluene	mg/L	7.77	NA	NA	NA	1.42E-03	0.08	0.02
			Route Total						NA			0.02
			Dermal	Toluene	mg/L	7.77	NA	NA	NA	2.91E-02	0.08	0.36
			Route Total						NA			0.36
		Medium Total							NA			0.4

Notes:
- NA = not applicable
- EPC = exposure point concentration; CSF = cancer slope factor; RfD = reference dose
- Average daily intake in units of mg/kg/day
- CSF in units of (mg/kg/day)-1
- RfD in units of mg/kg/day

Current Recreational Trespasser ADI Example calculations:

Hazard - Ingestion (7.77 mg/L x 10 ml/hr x 0.001 L/ml x 2 hr/event x 1 event/day x 50 days/yr x 6 years)/(15 kg x 2190 days)
Dermal (7.77 mg/L x Unit DAD-nc)

- Exposure factors and generic equations are provided in Table 3.

Table 15 - Ambient Air Cancer Risk and Non-Cancer Hazards
ELMCO Human Health Risk Assessment

Timeframe: Current
Receptor Population: Resident
Receptor Age: Child/Adult

							Cancer Risk Calculations			Non-Cancer Hazard Calculations		
Medium	Exposure Medium	Exposure Point	Exposure Route	Parameter	Units	EPC	Average Daily Intake	CSF	Cancer Risk	Average Daily Intake	RfD	Hazard Quotient
Ambient Air	Air	Backyards/ Open Areas between BGA and Daniels Dr.	Inhalation	Toluene	mg/m3	0.18	NA	NA	NA	1.2E-01	1.43	0.08
			Route Total						NA			0.1
		Medium Total							NA			0.1

Notes:
- NA = not applicable
- EPC = exposure point concentration; CSF = cancer slope factor; RfD = reference dose
- Average daily intake in units of mg/kg/day
- CSF in units of (mg/kg/day)-1
- RfD in units of mg/kg/day

Residential Air ADI Example calculations:
Hazard Inhalation (0.18 mg/m3 x 350 days/year x 6 years x 10 m3/day)/(15 kg x 2190 days)
- Exposure factors and generic equations are provided in Table 8.

Table 16 - Summary of RME Cancer Risk and Non-Cancer Hazards - ELMCO Residential Scenario
ELMCO Human Health Risk Assessment

Timeframe: Current
Receptor Population: Recreational Trespasser
Receptor Age: Child/Adult

				Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
Medium	Exposure Medium	Exposure Point	Parameter	Ingestion	Dermal	Inhalation	Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Total
Water	Surface Water	Along Liberty Creek below Main Seep	Toluene	NA	NA	NA	NA	Kidney	0.02	0.36	NA	0.4
		Exposure Point Total		NA	NA	NA	NA		0	0.4	NA	0.4
Surface Water Total							NA					0.4
Air	Ambient Air	Backyards/ Open Areas between BGA and Daniels Dr.	Toluene	NA	NA	NA	NA	Kidney	NA	NA	0.1	0.1
		Exposure Point Total		NA	NA	NA	NA		NA	NA	0.1	0.1
Ambient Air Total							NA					0.1
Total of Receptor Risk/Hazard Across All Media							NA					0.5

Notes:
- NA = not applicable
- EPC = exposure point concentration; CSF = cancer slope factor; RfD = reference dose
- Average daily intake in units of mg/kg/day
- CSF in units of (mg/kg/day)-1
- RfD in units of mg/kg/day
- Lead was evaluated separately using IEUBK and/or ALM .

Table 17 - Ecological Screening Values
ELMCO Ecological Assessment

		Ecological Benchmarks (mg/L)		
Parameter		Chronic	Acute	Source
1,2,3-Trimethylbenzene	a	0.017	0.31	Surrogate
1,2,4-Trimethylbenzene		0.017	0.31	MDEQ
1,3,5-Trimethylbenzene	a	0.045	0.81	MDEQ
Acetone		1.7	30	MDEQ
Benzene		0.053	0.53	EPA IV
Di isopropyl ether		NA	NA	NA
Ethylbenzene		0.453	4.53	EPA IV
Isopropylbenzene	c	0.453	4.53	Surrogate
Methylethylketone		2.2	40	MDEQ
n-Propylbenzene	c	0.453	4.53	Surrogate
Toluene		0.175	1.75	EPA IV
Xylenes		0.041	0.73	MDEQ

Notes:
- n/a = not applicable ; NA = not available
a - 1,2,4-Trimethylbenzene used as surrogate
b - 2-Methylnaphthalene used as surrogate
c - Ethylbenzene used as surrogate
- EPA IV is USEPA Region IV Supplemental Guidance to RAGS November 1995
- MDEQ is Michigan Dept. of Environmental Quality Rule 57 Water Quality Values.
- EPA V is USEPA Region V Ecological Screening Values

Table 18 - Surface Water Screening Analysis - Liberty Creek
ELMCO Ecological Assessment

Parameter	Units	Frequency of Detection	Average Detect	Minimum Detect	Maximum Detect	Location of Maximum	Range of Detection Limits	Chronic EcoSV	Acute EcoSV		Source	Frequency of Chronic EcoSV Exceedance	Surface Water COPEC?	COPEC Basis
1,2,3-Trimethylbenzene	mg/L	0 / 8	n/a	n/a	n/a	n/a	0.001 - 0.05	0.017	0.31	a	Surrogate	0 / 8	No	BSL
1,2,4-Trimethylbenzene	mg/L	1 / 9	0.00055	0.00055	0.00055	LC-A	0.001 - 0.05	0.017	0.31		MDEQ	0 / 9	No	BSL
1,3,5-Trimethylbenzene	mg/L	0 / 9	n/a	n/a	n/a	n/a	0.0002 - 0.05	0.05	0.81		MDEQ	0 / 9	No	BSL
Acetone	mg/L	7 / 9	4.334	0.52	8.8	LC-PC	0.5 - 1	1.7	30		MDEQ	5 / 9	YES	ASL
Benzene	mg/L	0 / 8	n/a	n/a	n/a	n/a	0.001 - 0.05	0.053	0.53		EPA IV	0 / 8	No	BSL
Di isopropyl ether	mg/L	0 / 8	n/a	n/a	n/a	n/a	0.001 - 0.05	NA	NA		NA	0 / 8	No	BSL
Ethylbenzene	mg/L	3 / 9	0.0021	0.0016	0.0028	LC-A	0.01 - 0.05	0.5	4.5		EPA IV	0 / 9	No	BSL
Isopropylbenzene	mg/L	0 / 9	n/a	n/a	n/a	n/a	0.0014 - 0.05	0.45	4.53	b	Surrogate	0 / 9	No	BSL
Methylethylketone	mg/L	2 / 9	0.0154	0.0148	0.016	LC-PC	0.0006 - 0.5	2.2	40		MDEQ	0 / 9	No	BSL
n-Propylbenzene	mg/L	0 / 9	n/a	n/a	n/a	n/a	0.0004 - 0.05	0.45	4.53	b	Surrogate	0 / 9	No	BSL
Toluene	mg/L	9 / 9	5.378	2.6	8.1	LC-PC	n/a - n/a	0.175	1.75		EPA IV	9 / 9	YES	ASL
Xylenes	mg/L	3 / 9	0.0094	0.0069	0.0113	LC-A	0.03 - 0.15	0.041	0.73		MDEQ	0 / 9	No	BSL

Notes:

- n/a = not applicable ; NA = not available
- nc = non-carcinogenic endpoint; c = carcinogenic endpoint
- TDEC has not analyzed surface water samples for 1,2,3-Trimethylbenzene, benzene or diisopropylether to date.
- ASL = Above screening level; BSL = Below screening level

a - 1,2,4-Trimethylbenzene used as surrogate

b - Ethylbenzene used as surrogate

- EPA IV is USEPA Region IV Supplemental Guidance to RAGS November 1995
- MDEQ is Michigan Dept. of Environmental Quality Rule 57 Water Quality Values.
- EPA V is USEPA Region V Ecological Screening Values

Table 19 - Surface Water Screening Analysis - Harpeth River
ELMCO Ecological Assessment

Parameter	Units	Frequency of Detection	Average Detect	Minimum Detect	Maximum Detect	Location of Maximum	Range of Detection Limits	Chronic EcoSV	Acute EcoSV		Source	Frequency of Chronic EcoSV Exceedance	Surface Water COPEC?	COPEC Basis
1,2,3-Trimethylbenzene	mg/L	- - / - -	n/a	n/a	n/a	n/a	n/a - n/a	0.02	0.31	b	Surrogate	- - / - -	No	BSL
1,2,4-Trimethylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0002 - 0.0002	0.02	0.31		MDEQ	0 / 2	No	BSL
1,3,5-Trimethylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0002 - 0.0002	0.05	0.81		MDEQ	0 / 2	No	BSL
Acetone	mg/L	7 / 8	0.1459	0.00115	0.443	HR-C	0.0023 - 0.0023	2	30		MDEQ	0 / 8	No	BSL
Benzene	mg/L	- - / - -	n/a	n/a	n/a	n/a	n/a - n/a	0.053	0.530		EPA IV	- - / - -	No	BSL
Di isopropyl ether	mg/L	- - / - -	n/a	n/a	n/a	n/a	n/a - n/a	NA	NA		NA	- - / - -	No	BSL
Ethylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	9E-05 - 9E-05	0.5	4.5		EPA IV	0 / 2	No	BSL
Isopropylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0001 - 0.0001	0.45	4.53		Surrogate	0 / 2	No	BSL
Methylethylketone	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0006 - 0.0006	2	40		MDEQ	0 / 2	No	BSL
n-Propylbenzene	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0004 - 0.0004	0.45	4.53		Surrogate	0 / 2	No	BSL
Toluene	mg/L	8 / 8	0.0629	0.0066	0.193	HR-C	n/a - n/a	0.2	1.8		EPA IV	2 / 8	YES	BSL
Xylenes	mg/L	0 / 2	n/a	n/a	n/a	n/a	0.0018 - 0.0018	0.0	0.7		MDEQ	0 / 2	No	BSL

Notes:

- n/a = not applicable ; NA = not available
- nc = non-carcinogenic endpoint; c = carcinogenic endpoint
- TDEC has not analyzed surface water samples for 1,2,3-Trimethylbenzene, benzene or diisopropylether to date.
- ASL = Above screening level; BSL = Below screening level

a - 1,2,4-Trimethylbenzene used as surrogate

b - Ethylbenzene used as surrogate

- EPA IV is USEPA Region IV Supplemental Guidance to RAGS November 1995
- MDEQ is Michigan Dept. of Environmental Quality Rule 57 Water Quality Values.
- EPA V is USEPA Region V Ecological Screening Values

Table 20 - Surface Water Ecological HQ/HI Analysis - Liberty Creek and Harpeth River
ELMCO Ecological Assessment

Stream	Location	Location Description	Sample Date	Acetone (mg/L)	Toluene (mg/L)	Acetone Chronic HQ	Toluene Chronic HQ	Sample Chronic HI	Mean HI
Liberty Creek	Watergate	Liberty Creek u.s. of main seep	1/28/2008	0.52	2.6	0.3	15	15	25
			2/15/2008	0.50	4.3	0.3	25	25	
			4/2/2008	3.0	7.0	2	40	42	
			5/7/2008	0.25	3.0	0.1	17	17	
	LC-PC	Liberty Creek at Personnel Crossing	1/28/2008	1.4	5.0	0.8	29	29	39
			2/15/2008	5.3	8.1	3	46	49	
			3/18/2008	5.2	7.1	3	41	44	
			4/2/2008	6.1	4.4	4	25	29	
			5/7/2008	8.8	6.9	5	39	45	
Harpeth River	HR-C	Harpeth River, u.s. Liberty Creek	10/31/2007	0.44	0.18	n/a	1	1	1
			11/19/2007	0.36	0.19	n/a	1	1	
			12/19/2007	0.083	0.028	n/a	0.2	0.16	
			3/18/2008	0.001	0.051	n/a	0.3	0.29	
	HR-A	Harpeth River, u.s. Franklin STP Outfall	10/31/2007	0.043	0.007	n/a	0.04	0.04	0.1
			11/19/2007	0.055	0.015	n/a	0.08	0.08	
			12/19/2007	0.029	0.015	n/a	0.09	0.09	
			3/18/2008	0.006	0.012	n/a	0.07	0.07	

Notes:
- One-half detection limit substituted for non-detects
- HQ (hazard quotient) computed using chronic EcoSV values (Acetone: 1.7 mg/L; Toluene: 0.175 mg/L) in denominator using sample-specific data
- HI (hazard index) computed as sum of HQ across all COPECs; Acetone was not identifed as a Harpeth River COPEC
- The LC-PC sample listed for 3/18/08 was actually collected by TDEC at location LC-A.

October 2012 Risk Assessment Addendum

Egyptian Lacquer Manufacturing Company, Inc. ("ELMCO")

Addendum to June 2008 Risk Assessment in Support of Correction Action Plans

Prepared for:

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Nashville, Tennessee

Prepared by:

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October 2012

ELMCO HUMAN HEALTH RISK ASSESSMENT -2012 ADDENDUM
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1.0 INTRODUCTION

In June 2008, a risk assessment was prepared for the Egyptian Lacquer Manufacturing Company (ELMCO) to assess the potential effects on human health and the environment associated with a historical release from the facility's solvent transfer piping system. The assessment assumed that no action would be taken to control or eliminate releases beyond those measures implemented prior to June 2008. Since that time, multi-media monitoring has continued as various source control and remediation actions were undertaken. Results have indicated that source area/strength and media concentrations have declined substantially over the period.

In June 2012, representatives from ELMCO and TDEC met to discuss the path forward including development of a revised Corrective Action Plan (CAP). The CAP will be prepared on behalf of ELMCO through its attorneys at Stites & Harbison, PLLC (Stites) by TriAD Environmental Consultants, Inc. (TriAD). Among the components identified for inclusion in the revised CAP was an update to the 2008 risk assessment.

On August 1, 2012, representatives of TDEC, TriAD and Secaps Environmental Inc. (Secaps) held a conference call to discuss specific requirements for the risk assessment update. The conclusions and agreements from that call, summarized in subsequent correspondence, are presented below:

General Issues

- TDEC is satisfied with the 2008 risk assessment methods and conclusions with regard to residential exposure scenarios and ecological receptors. The related portions of the risk assessment would, therefore, stand as written.
- TDEC would, however, like ELMCO to address remaining concerns related to possible recreational use of Liberty Creek by children focusing on toluene as the sole remaining chemical of concern.
- The associated report would be prepared as an addendum to the original risk assessment.

Surface Water/Seeps

- Evaluate dermal and incidental ingestion exposure routes for surface water and seeps under a recreational exposure scenario.
- Retain all exposure assumptions, calculations and toxicity values for a child receptor from the 2008 risk assessment except exposure frequency which would be modified to 20 days/year based on site conditions, accessibility considerations and observations made by field personnel over the past five years. The effects of that modification would be discussed in the addendum.
- The exposure point concentration will be established using data from surface-water monitoring points (Watergate and LC-PC) and the main seep (LC-MS). Recent data (at least six sampling events) from these locations will be used to compute upper confidence limit on the mean concentrations (UCL) for surface water and seep water. The overall exposure point concentration will be computed as the weighted mean of the UCL values based on the linear footage represented by the surface water and seep data, respectively. The approach

would be consistent with the site exposure factor approach outlined in guidance; essentially establishing each medium as a separate exposure site within the overall exposure unit. It will reflect the fact that the discrete seep points from which contaminated groundwater emanate represent a relatively small percentage of the overall exposure unit. Based on TriAD estimates, we will assume the exposure unit extends along approximately 800 feet of Liberty Creek, from its mouth into the Harpeth River to a point midway between the "Watergate" location and the "concrete ford" upstream. This represents the portion of Liberty Creek impacted by contaminated groundwater but excludes unimpacted upstream areas. As such, we believe the exposure unit will be conservatively defined. The several seep inflows of contaminated groundwater along Liberty Creek's east bank result in small spots of contaminated surface water which are presumed to be represented by the LC-MS data. TriAD estimated that these spots account for no more than 10 feet of the total 800 feet of creek length within the exposure unit. Therefore, the LC-MS data would represent 1.25% (or less) of the total exposure unit while the remainder would be represented by the data from the LC-PC and Watergate monitoring locations. The use of the available LC-PC and Watergate data to represent conditions over the remaining 98.75% of the exposure unit should maintain conservatism in the assessment. Based on site knowledge, lower surface water toluene concentrations would be expected in areas upstream of the Watergate location and downstream of the Personnel Crossing (LC-PC) location based on the absence of inputs and/or dilution by unimpacted groundwater gain.

Air

- Inhalation exposure will be modeled for the same scenario and receptors (discussed above) using the same exposure frequency and duration assumptions.
- The exposure point concentration will be established by collecting a single SUMMA canister sample between the creek banks near LC-MS. A 2-hour (minimum) canister sample will be collected, if possible, that will be analyzed for toluene only. The air sample will be collected under the following conditions:
    - At approximate receptor breathing zone height (4 to 4.5 feet above water's surface)
    - During "normal" creek flow conditions most attractive to children who may want to play in the water
    - Typical warm summer day at a time when sunlight is most likely to be striking the water maximizing the potential for toluene volatilization.
    - Light winds to minimize the potential for rapid dispersion of any toluene emitted by proximate sources.

This document is intended to serve as the addendum to the 2008 risk assessment. As such, some standard risk assessment components are included by reference to the 2008 document or other project deliverables, or in abridged form.

Site History and Background

Details regarding the site and investigation history are provided in the 2008 risk assessment, CAP and quarterly reports submitted to TDEC by TriAD on behalf of Stites and ELMCO.

Previous Risk Evaluations

Various screening level analyses have been performed in conjunction with previous actions at the site. Human health screening has been used to gauge the significance of surface water, air and groundwater results. The Tennessee Department of Health has also reportedly conducted a risk assessment to evaluate potential impacts on recreational users of the Harpeth River (TDEC 2007).

TDEC evaluated surface water results to determine whether current surface water impacts pose a threat to aquatic receptors. In addition, limited toxicity testing of waters from Liberty Creek was performed. The 2008 risk assessment represented the first attempt to fully characterize the threat posed to human health and the environment due to the historical leaks in the ELMCO solvent piping system.

In November 2010, the Tennessee Department of Health (under a Cooperative Agreement with the U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry, Division of Health Assessment and Consultation) prepared a health consultation addressing results of residential indoor air investigations conducted in January 2010. The intent was to evaluate potential human health issues related to vapor intrusion in homes downgradient of the ELMCO facility. The report concluded that the levels of acetone, benzene and toluene detected were below the levels that are considered harmful to adults and children living in each home. In addition, it was concluded that related risks were likely to decrease over time as groundwater contaminant concentrations continued to decline.

2.0 HUMAN HEALTH RISK ASSESSMENT

The human health risk assessment (HHRA) update was performed in general accordance with USEPA risk assessment guidance. Specific guidance documents used in preparing the HHRA are listed in the References. Consistent with USEPA guidance (USEPA 1989), the HHRA process was divided into five elements:

- Data Collection and Evaluation
- Exposure Assessment
- Toxicity Assessment
- Risk Characterization
- Uncertainty Analysis

Each of these five elements was described in detail in the 2008 HHRA. A streamlined approach was used to develop this addendum with only information vital to the current assessment presented. The last section discusses results of the HHRA in the context of potential risk management decisions and provides remedial goal options (if necessary) for environmental media based upon the exposure scenarios and assumptions.

2.1 DATA COLLECTION AND EVALUATION

Data Compilation and Evaluation
The following data evaluation steps were performed:

- Gather and sort data
- Evaluate analytical methods
- Evaluate quality of data with respect to sample quantitation limits
- Evaluate quality of data with respect to qualifiers and codes
- Evaluate quality of data with respect to blanks
- Compare potential site-related contaminant levels to background
- Identify chemicals of potential concern (COPCs) based on risk-based screening

The process was used to ensure data used were of acceptable quality and to identify chemicals associated with the source that warranted formal assessment in the HHRA. Only samples for those media relevant to this addendum were considered.

Gather and Sort Data
Numerous sampling investigations have been conducted on and around the ELMCO facility since the fourth quarter 2006. Data produced by previous field efforts were entered into a project database. Data were subjected to a measurement quality objectives review and lab qualifiers were considered as part of the data quality assessment. It was presumed that data were of sufficient quality to support risk assessment end uses although formal data verification/validation was not performed.

Based on the scope of this assessment (Section 1), toluene data from recent sampling events were gathered (Tables 1 and 2). For surface water locations Personnel Crossing (LC-PC) and Watergate, data from the last six sampling events (March 2011 to July 2012) were compiled. For the Main Seep location (LC-MS), results for the last 12 sampling events (February 2010 to July 2012) were compiled; the expanded time period necessitated by the minimum number of results required to obtain a reliable statistical estimates.

Per agreements discussed in Section 1, a summa canister ambient air sample was collected on August 21, 2012 at a location in the Liberty Creek channel. The toluene result was 170 ug/M^3. A brief sampling process summary and the laboratory report are provided as Attachment A.

Evaluation of Analytical Methods
Analytical methods were evaluated during the DQA process. The methods for toluene in both water and air were consistent for all efforts from which data were obtained to support this assessment.

Evaluation of Sample Quantitation Limits
Quantitation limits (QLs) for all water and air samples used to support this assessment were adequate for the sole contaminant assessed (toluene).

Evaluation of Qualified and Coded Data
No toluene result (for any medium) used in this assessment was qualified or coded by the laboratory or through data validation.

Comparison to Blanks
Blank (including field, rinsate, filter and laboratory blanks) comparisons were routinely performed as part of the data quality process for samples collected by TriAD. The results of those comparisons did not affect usability for any data included in this assessment.

Comparison to Background
Background data were not collected for seeps. Limited background surface water sampling by TriAD (Liberty Creek) during the early stages of the investigation found no ELMCO-related constituents. No background air monitoring was performed.

Selection of COPCs
Toluene was identified as the sole COPC in surface water, seeps and ambient air based on the 2008 risk assessment. As discussed above, TDEC concurred that toluene would be the only chemical evaluated as part of this addendum. No media-specific screening analyses were performed.

2.2 EXPOSURE ASSESSMENT

The purpose of the exposure assessment was to identify receptors and to estimate potential exposures under plausible current and future exposure scenarios. Consistent with RAGS Part A, exposure assessment was conducted in three steps: 1) characterization of exposure setting; 2) identification of exposure pathways; and 3) quantification of exposure.

Characterization of Exposure Setting
Local Land Use and Description
Details regarding the location, demographics and physical characteristics of the site are provided in the CAP and the 2008 risk assessment. Per agreement, potential exposure of children using the Liberty Creek corridor for recreational purposes was the sole focus of this assessment. Risks to children under the age of 7 were evaluated. However, because of access restrictions, distance to existing residences/schools and topography, children under 5 are unlikely to regularly recreate in the area.

Identification of Exposure Pathways
Exposure pathways link a source or contaminated medium to an exposed individual or receptor. This is done based on the location and nature of the contaminated media and the types and patterns of human activity. In order to complete a pathway, a source, affected medium, point of contact and effective exposure route must exist. It was assumed that current conditions are (and will be) representative of exposure media for all future exposure scenarios. As a consequence, no formal fate and transport or source dissipation modeling was used to predict exposures. It should be noted, however, that decreasing concentration trends have been observed in seeps along Liberty Creek. Because these features represent the primary sources of contaminants to

both surface water and ambient air, continued declines would be expected to result in reduced levels in exposure media.

Affected Media
Based on discussions with TDEC and the results of the 2008 risk assessment, the media addressed in the HHRA were as follows:

- **Water** samples collected in Liberty Creek and the Main Seep were found to have elevated concentrations of toluene.

- **Ambient Air** within the Liberty Creek corridor was found to have detectable concentrations of toluene.

Exposure Points and Routes
The exposure points for each medium were established as the contaminated areas or media in the respective exposure units. Exposure routes evaluated included the following:

- Incidental ingestion of toluene in Liberty Creek surface water and seep water
- Dermal contact with toluene in Liberty Creek surface water and seep water
- Inhalation of toluene in ambient air in the Liberty Creek corridor

Detailed Exposure Scenario
The exposure scenarios agreed upon was constructed based on the conceptual site model; considering specific receptors, activities, exposure units and timeframes. A single conservative scenario was evaluated.

- **Current/Future Recreational Users**: This scenario assumed that children residing nearby would be the primary receptors. The receptors will occasionally enter Liberty Creek for recreational purposes. During these excursions, individuals will be exposed to surface water and seep water via incidental ingestion and dermal contact and ambient air through inhalation.

No additional (less conservative) scenarios were addressed.

Quantification of Exposure
Chemical exposures were quantified as chronic daily intakes (CDI) for each applicable exposure scenario, pathway and route consistent with USEPA guidance (USEPA 1989). The primary calculations were based on ‘reasonable maximum exposure’ (RME) in each case. Where associated RME risk and/or hazard were subsequently found to exceed project targets, results are discussed in the Risk Characterization and Uncertainty Analysis sections.

The CDI were computed for non-cancer health endpoints, as no carcinogenic COPCs were identified. Exposures to non-carcinogens are averaged over the exposure duration only. Tables 3 and 4 provide the exposure assumptions and formulae used to quantify RME exposure via surface water ingestion and dermal contact, and ambient air inhalation routes. Chemical-specific exposure inputs are provided in Table 5.

Exposure Point Concentrations
The concentration term in each exposure CDI equation is intended to represent the average that may be contacted over the exposure duration. Due to the uncertainties associated with these estimates, the 95% upper confidence limit (UCL) of the mean is most commonly used as the exposure point concentration (EPC) for RME exposure estimates (USEPA 2002). For the HHRA, ProUCL Version 4.0 (ProUCL) (USEPA 2010) was used to compute UCL values for toluene in each aqueous medium (Attachment A, Tables A-1 and A-2). The recommended UCL estimates for surface water and seep water were used to quantify RME exposure.

For surface water, toluene results for the last six Liberty Creek sampling events at locations LC-PC and Watergate were used to compute the EPC. For seep water, results for the last 12 sampling events at the Main Seep were used. Table 6 summarizes general statistics and RME EPC values for surface water and seep water along with the specific statistics and rationale used to compute them. As discussed in Section 1, the EPC for the respective media were used to develop an area-weighted average EPC for aqueous media in the Liberty Creek corridor (Table 6). This value (5.47 mg/L) was used as the EPC for exposure estimation. For ambient air, the August 2012 toluene result (170 ug/M^3) was used as the EPC.

Chronic Daily Intakes
The formulae and EPC values were combined to compute CDI for each medium and route. The outputs of this step for RME assumptions are presented in Tables 7 and 8 for aqueous media and ambient air, respectively. Additional discussion is provided in the Risk Characterization and Uncertainty Analysis sections.

2.3 TOXICITY ASSESSMENT

The purpose of the toxicity assessment is to evaluate available information regarding the potential for COPCs to cause adverse health effects and provide an estimate of the relationship between the magnitude of exposure and the probability (or severity) of the effect. In accordance with guidance (USEPA 1989), this assessment was performed in two steps.

The first step, hazard assessment, involves determination of whether an exposure can cause an increase in an adverse health effect and if the effect will manifest in humans. This amounts to a general causation analysis with consideration given to the nature and strength of evidence. The second step, dose-response evaluation, is a quantitative evaluation of toxicity data aimed at determining the relationship between dose and the degree of adverse effect in the exposed population. From this analysis, reference doses (RfD) for non-carcinogens and slope factors (SF) for carcinogens are derived. These values allow for estimation of non-carcinogenic hazard or carcinogenic risk as a function of exposure. Cancer and non-cancer effects are assessed separately, although some chemicals may causes both types of effect.

Chemical toxicity information used in the HHRA is presented in Table 9. These values were used to compute conservative screening values as well as to perform the quantitative risk assessment. RfD values are provided along with other chemical-specific factors that support route-specific analysis. No carcinogenic chemicals were evaluated, thus no slope factors are

presented. The primary source of toxicity values was USEPA's Integrated Risk Information System (IRIS). Other sources were used when information was not available in IRIS. The derivation of these values is provided in referenced documents. Absorption factors and dermal toxicity values used in the HHRA are presented in Table 9 along with related source references.

Basic toxicological profiles were obtained from ORNL on-line database service July 2012. Each was reviewed and supplemented to reflect project-specific assumptions and/or updated toxicological or chemical characteristic data prior to use. The general characteristics and toxicological effects of toluene are summarized in Attachment B.

2.4 RISK CHARACTERIZATION

Risk characterization combines the outputs of the exposure and toxicity assessments to estimate the potential for adverse effects in the exposed populations. The output of risk characterization provides the key elements for risk management and supports remedial decision-making. Non-carcinogenic and carcinogenic risks are predicted and evaluated separately. No carcinogenic COPCs were identified in the 2008 risk assessment.

Non-Cancer Effects

Non-cancer health effects were evaluated through comparison of estimated intake with the reference dose. The ratio (CDI/RfD) is called the hazard quotient (HQ). The HQ is a simple numerical index used to determine whether exposure presents a potential health risk. It does not, however, represent the probability or severity of the effect. When the HQ exceeds 1, the potential exists for non-cancer health risks.

When non-cancer effects associated with exposure to multiple chemicals are possible, they are estimated by a hazard index (HI). The HI is a summation of the individual HQs associated with exposure to all chemicals through all related and relevant exposure pathways. This assumption of additive effect does not consider synergistic or antagonistic mechanisms.

An HI above 1 indicates that a potential health risk may be posed, but must be interpreted with caution because the dose-response curves and the target organ/primary effects for the individual chemicals may differ. Additionally, uncertainty and modifying factors often differ by orders of magnitude (as a function of experimental conditions and overall database quality) between chemicals indicating the RfDs vary in terms of the level of confidence that can be placed in them. When an HI exceeds 1, USEPA guidance recommends that the non-cancer hazard assessment further segregate based on common target organ or effect. This was not an issue for the ELMCO HHRA as only a single COPC was evaluated.

Risk Characterization Results

Hazard (along with CDI) calculations for aqueous media and ambient air routes are presented in Tables 7 and 8, respectively. Total non-cancer hazard estimates were rounded to the nearest single digit. Discussions focus on non-carcinogenic hazard associated with 'reasonable maximum exposure' (RME) unless otherwise specified.

Current/FutureRecreational User: Non-cancer hazard associated with exposure to surface water, seeps and ambient air may be summarized as follows:

- *Non-cancer HI*
  - 0.1: Associated primarily with exposure to toluene in aqueous media via dermal contact (HQ = 0.1).

- *Chemicals of Concern*: None

- *Discussion*: Non-cancer findings are not actionable as the hazard index was less than 1. Conservative EPC assumptions for surface water, seeps and ambient air increase the confidence in this conclusion. Only data from surface water locations expected to be maximally impacted were considered. Ambient air results are considered representative of 'worst case' conditions having been collected in close proximity to the Main Seep.

Table 10 provides a summary of non-carcinogenic hazard and chemicals of concern (COC) for the current/future recreational scenario under RME assumptions.

2.5 UNCERTAINTY ANALYSIS

Inherent in any risk evaluation are uncertainties related to the data used, exposure assessment assumptions made, toxicological values applied and the general characterization framework. The following discusses some of the primary sources of uncertainty related to the HHRA.

Uncertainties Associated with Data Used

Data Quality Issues
Censored data were handled in a consistent manner. All data used to perform the HHRA were subjected to some degree of data quality assessment. However, no formal data validation or quality assessment reports were provided.

Sampling Design Issues
Current site conditions were established as those that existed during most recent sampling events for each medium. The surface water and air sampling efforts employed a biased approach; using a judgment or search based sampling design rather than random allocation of samples. For surface water and ambient air, additional randomly allocated sample locations would have been expected to produce lower results. As a result, the sampling approach employed is considered conservative.

Exposure Assessment
The exposure assessment defined the conditions under which individuals could come into contact with affected media. The definition of these conditions had a significant bearing on exposure estimates. The following paragraphs discuss specific aspects of the exposure assessment that introduce uncertainty in the screening evaluation.

Exposure Routes/Pathways
Only direct exposure pathways/routes for surface water, seeps and ambient air were evaluated.

Exposure Assumptions
No site-specific information was available upon which to base exposure assessment assumptions. Default exposure assumptions were used where applicable to the exposure scenarios developed. In the absence of default values or where they lacked site-specific applicability, best professional judgment was used. Primary exposure assumptions were selected to reflect reasonable maximum exposure.

For direct ambient air-related routes, standard conservative default assumptions were generally used to quantify exposure. It was assumed that 100% of daily inhalation rate would occur within the exposure unit. Based on the exposure time (2 hours/day), the actual inhalation site exposure fraction would be 0.083 (rather than 1). As a result, inhalation exposures were significant overestimated.

Due to the characteristics of Liberty Creek, surface water exposure assumptions were chosen to reflect infrequent wading. Use of default body weight and ingestion/inhalation rates could overestimate or underestimate average exposure. These assumptions are expected to provide a reasonably conservative outcome on average although exposure frequencies may be the least certain of the primary assumptions.

Scenario- and Receptor-Specific Assumptions
Recreational
Due to the lack of specific information regarding trespasser access to the site, conservative exposure frequency assumptions were made for children and adults (20 days/year). Topography and the lack of a fishery in Liberty Creek would tend to limit its attractiveness for frequent recreational activity. Furthermore, personnel working in the area have rarely observed individuals engaged in activities (recreational or otherwise) within the creek corridor over the five plus year period that monitoring has been conducted. As a consequence, assumptions and remedial decisions based upon them are expected to remain conservative. The chance that future recreational use-related hazard and/or risk are overestimated based on these assumptions is moderate. Recreational exposure frequency will be dependent upon access controls and the key features that might draw individuals to the site.

For recreational users, it was assumed that all exposure would be in the most heavily contaminated portions of Liberty Creek. It is more likely that these individuals would spend only a fraction of their time downstream of the seeps with the remainder spent in other reaches without significant contamination. As a result, exposure to site-related contaminants would be less than estimated and the risk assessment approach would overestimate average daily exposure to toluene.

Exposure Point Concentrations
For each area/medium, it was assumed that most recent results were representative of the range and distribution that would be observed in a random sample. Random exposure throughout the exposure unit was assumed. With respect to recreational activities, certain surface water features

may lead individuals to return to particular locations more often rather than being uniformly exposed to materials throughout the Liberty Creek corridor. Conversely, some locations may seldom, if ever, be visited. The biased sampling design which excluded upstream (background) locations and use of data only from the most heavily impact stream reaches and the main seep likely resulted in positively biased estimates of both surface water and seep concentrations that may be contacted on a long-term basis.

Ambient air and water concentrations are expected to decline as the strength of principal sources (stream bank seeps) continues to dissipate. Over the long-term, this should result in reduced exposure to any recreational site users.

Uncertainties Associated with Toxicity Assessment

Considerable uncertainty can be attributed to the toxicological values used in risk evaluation. Their derivation often relies on extrapolation of acute responses to chronic responses, between species or populations (general to sensitive or vice versa) and from dosing sequences or rates not representative of exposure in the context of environmental contamination. The following discussions provide details relevant to the ELMCO risk assessment.

Derivation of reference doses (RfD) usually involves animal study results. Uncertainty factors (UF) are applied to provide additional margins of safety when extrapolating results to the human population. UF are assigned based on the study subjects (animal/human) and duration (acute/chronic). Modifying factors (MF) may also be assigned to reflect deficiencies in the studies or general toxicological database related to potential adverse effects. The higher the combined UF/MF, the less confidence that can be placed in the applicability to humans under chronic exposure conditions. The factor for toluene was 3000.

Uncertainties Associated with the Risk Evaluation

The HHRA was structured to provide conclusions under the conservative assumption of reasonable maximum exposure. The use of biased sampling results with an investigative focus on more impacted areas adds further to the conservatism of the evaluation.

2.6 CONCLUSIONS

Toluene was the only COPC evaluated for ambient air and surface water-related pathways, and it poses only non-cancer risks.. Non-cancer risks were quantified with a cumulative hazard index of less than 1; indicating no action is required to protect human health.

3.0 REFERENCES

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USEPA. Integrated Risk Information System (on-line database)

Table 1 - Liberty Creek Surface Water Toluene Results March 2011 to July 2012
ELMCO Human Health Risk Assessment - 2012 Addendum

Date	LC-PC	Watergate
3/22/2011	2.5	1.78
6/15/2011	7.84	1.61
9/13/2011	3.15	3.63
12/13/2011	1.96	1.61
3/22/2012	1.99	1.76
7/17/2012	2.17	1.71

Notes:
- All results in mg/L

Table 2 - Liberty Creek Main Seep Toluene Results February 2010 to July 2012
ELMCO Human Health Risk Assessment - 2012 Addendum

Date	LC-MS
2/26/2010	137
4/16/2010	150
6/18/2010	131
7/27/2010	82.4
10/15/2010	196
12/21/2010	78.4
3/22/2011	88.9
6/15/2011	236
9/13/2011	128
12/13/2011	134
3/22/2012	142
7/17/2012	90

Notes:
- All results in mg/L

Table 3 - Exposure Factors for Recreational Users – Surface Water and Seep Routes

ELMCO Human Health Risk Assessment - 2012 Addendum

	Units	Child	Adult	Source
General Exposure Parameters				
Body weight (BW)	kg	15	70	Default body weight from USEPA standard exposure factors
Exposure duration (ED)	yr	6	24	Default duration assumptions for child and adolescent, adult is 30 year maximum minus child ED (where applicable)
Averaging time, non-carcinogenic (ATnc)	days	2190	- -	ED x 365 days/year; most sensitive population only
Averaging time, carcinogenic (ATc)	days	25550		70 yr life expectancy x 365 days/year
Incidental Ingestion Parameters				
Water ingestion rate (IRw)	ml/hr	10		Default value for reasonable maximum exposure, wading
Parameter Concentration ([ ])	mg/L	Chemical-specific		Exposure point concentration
Dermal Parameters				
Skin surface area (SSA)	cm^2	5200	9070	Sum of 50th percentile for hands, arms, head, feet, and legs
Dimensionless ratio: Kp thru stratum corneum/Kp across viable epidermis (B)	Unitless	Chemical-specific		USEPA RAGS Part E
Fraction absorbed water (FA)	Unitless	1		Assumed for all chemicals
Permeability constant (Kp)	cm/hr	Chemical-specific		10^(-2.8 +0.66Kow - 0.0056 MW)
Water concentration (Cw)	mg/cm3	Chemical-specific		Exposure point concentration; units converted
Lag time/event (τ-event)	hr/event	Chemical-specific		0.105 x 10^(0.0056 x MW)
Time to reach steady state (t*)	hr/event	Chemical-specific		2.4 x τ-event; all less than 2 hr
Octanol-water partitition coefficient (Kow)	Unitless	Chemical-specific		From literature
Molecular weight (MW)	g/mole	Chemical-specific		From literature
Pathway-specific Parameters				
Exposure frequency (EF)	days/yr	20	20	2x/week during 10 weeks of summer vacation
Exposure time (ET)	hr/event	2		2 hours per event was assumed due to restrictions and assumed average recreational outting
Conversion factor, water (CFw)	L/ml	10-3		
Exposure Quantification (Dose) Formulae:				
Non-cancer effects, ingestion	Parameter [ ] x IRw x EF-c x ED-c x CFw x ET /(BW-c x ATnc-c)			
Non-cancer effects, dermal (DAD-nc)	DAevent x EV x ED x EF x SSA/(BW-c x ATnc-c)			
Cancer effects, ingestion	Parameter [ ] x IRw x ([{EF-c x ED-c x ET}/BW-c] + [{EF-a x ED-a x ET-a}/BW-a]) x CFw /ATc			
Cancer effects, dermal (DAD-c)	DAevent x EV x ((ED-c x EF-c x SSA-c/BW-c)+(ED-a x EF-a x SSA-a/BW-a))/ATc)			
Absorbed Dose/Event (DAevent) (ET > t*)	(mg/cm2-event)	FA x Kp x Cw x ([ET/1+B]+ 2 x τ-event x [{1 + 3B + 3B^2}/{1+B}^2])		

[1] 'a' designator indicates adult exposure factor

[2] 'c' designator indicates child exposure factor

Table 4 - Exposure Factors for Recreational Users – Air Routes

ELMCO Human Health Risk Assessment - 2012 Addendum

	Units	Child	Adult	Source
General Exposure Parameters				
Body weight (BW)	kg	15	70	Default body weight from USEPA standard exposure factors
Exposure duration (ED)	yr	6	24	Default duration from USEPA standard exposure factors
Averaging time, non-carcinogenic (ATnc)	days	2190	- -	ED x 365 days/year; most sensitive population only
Averaging time, carcinogenic (ATc)	days	25550		70 yr life expectancy x 365 days/year
Inhalation Parameters				
Inhalation Rate (IRa)	m3/d	10	20	Default from USEPA standard exposure factors
Parameter Concentration ([ ])	mg/m3	Chemical-specific		Exposure point concentration
Pathway-specific Parameters				
Exposure frequency (EF)	days/yr	20	20	2x/week during 10 weeks of summer vacation
Site exposure fraction (SEF)	unitless	1		Individuals resides and spends majority of time in area
Exposure Quantification Formulae:				
Non-cancer effects, inhalation	Parameter [ ] x IRa-c x EF-c x ED-c/(BW-c x ATnc-c)			
Cancer effects, inhalation	Parameter [ ] x ([IRa-c x EF-c x ED-c/BW-c] + [IRa-a x EF-a x ED-a/BW-a])/ATc)			

[1] 'a' designator indicates adult exposure factor

[2] 'c' designator indicates child exposure factor

Table 5 - Summary of Permeability Coefficients, Absorption Factors and Unit Dermal Dose for Water Exposure
ELMCO Human Health Risk Assessment - 2012 Addendum

Parameter	Kp (cm/hr)	Source	Calculated Kp (cm/hr)	Dermal Abs Factor	Source	MW	log Kow	τ-event	B	t*	FA	Unit DA-event (mg/cm2-event)
Toluene	0.031	Pt E	0.031	n/a	Pt E	92.1	2.73	0.344	0.1	0.83	1	7.88E-05

Notes:

- Pt E = Risk Assessment Guidance for Superfund, Volume 1: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim
- n/a = not applicable ; NA = not available
- Kp calculated as 10^(-2.8 + 0.66(log Kow) - 0.0056MW)

Absorbed Dose/Event (DAevent) (ET > t*) (mg/cm2-event) = FA x Kp x Cw x ([ET/1+B]+ 2 x τ-event x [{1 + 3B + 3B^2}/{1+B}^2])

- ET = 2 hrs per exposure scenario. Unit DAevent calculated assuming 1 mg/L for each parameter using calculated Kp values.
- 'B' values obtained (or estimated from) RAGS, Part E.

Table 6 - Surface Water and Seep Exposure Point Concentrations - Liberty Creek
ELMCO Human Health Risk Assessment - 2012 Addendum

Timeframe: Current
Area: Liberty Creek Watergate to Personnel Crossing
Scenario(s): RecreationalUser
Medium: Water
Exposure Medium: Surface Water

								Exposure Point Concentration			
Water Source	Parameter	Units	n	Arithmetic Mean	95% UCL (Distribution)		Maximum Detect	EPC Value	Statistic	Rationale	Site Exposure Factor
Surface Water	Toluene	mg/L	12	2.643	3.55	N	7.84	3.55	Student's t UCL	S-W	0.9875
Liberty Creek - Main Seep	Toluene	mg/L	12	132.8	157.2	Norm	236	157.2	Student's t UCL	S-W	0.0125
							Composite EPC	5.47			

Notes:

- NA = not applicable
- G = gamma distribution; L = lognormal distribution; N = non-parametric distribution; Norm = normal distribution
- Student's t UCL = 95% UCL of mean by standard Student's method
- S-W - Shapiro-Wilks Test (for normality)
- Statistical analysis peformed using USEPA's ProUCL Version 4.0
- Surface water includes results for LC-PC and Watergate - quarterly March 2011 to July 2012 (6 events); Main Seep includes results for February, April, June, July and October 2010 and quarterly December 2010 to July 2012 (12 events)
- Site Exposure Factor (SEF) - relative proportion of entire exposure unit represented by the respective EPC. Composite EPC calculated as sum of individual EPC x SEF and used as the EPC for subsequent surface water exposure quantification.

Table 7 - Surface Water and Seep Cancer Risk and Non-Cancer Hazards - Liberty Creek
ELMCO Human Health Risk Assessment - 2012 Addendum

Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Child

							Cancer Risk Calculations			Non-Cancer Hazard Calculations		
Medium	Exposure Medium	Exposure Point	Exposure Route	Parameter	Units	EPC	Average Daily Intake	CSF	Cancer Risk	Average Daily Intake	RfD	Hazard Quotient
Water	Surface Water	Along Liberty Creek below Main Seep	Ingestion	Toluene	mg/L	5.47	NA	NA	NA	4.00E-04	0.08	0.005
			Route Total						NA			0.005
			Dermal	Toluene	mg/L	5.47	NA	NA	NA	8.20E-03	0.08	0.1
			Route Total						NA			0.1
		Medium Total							NA			0.1

Notes:
- NA = not applicable
- EPC = exposure point concentration; CSF = cancer slope factor; RfD = reference dose
- Average daily intake in units of mg/kg/day
- CSF in units of (mg/kg/day)-1
- RfD in units of mg/kg/day

Current Recreational Trespasser ADI Example calculations:

Hazard - Ingestion (EPC mg/L x 10 ml/hr x 0.001 L/ml x 2 hr/event x 1 event/day x 20 days/yr x 6 years)/(15 kg x 2190 days)

Dermal (EPC mg/L x Unit DAD-nc)

- Exposure factors and generic equations are provided in Table 3.

Table 8 - Ambient Air Cancer Risk and Non-Cancer Hazards - Liberty Creek
ELMCO Human Health Risk Assessment - 2012 Addendum

Timeframe: Current
Receptor Population: Recreational Trespasser
Receptor Age: Child

							Cancer Risk Calculations			Non-Cancer Hazard Calculations		
Medium	Exposure Medium	Exposure Point	Exposure Route	Parameter	Units	EPC	Average Daily Intake	CSF	Cancer Risk	Average Daily Intake	RfD	Hazard Quotient
Ambient Air	Air	Liberty Creek Channel Corridor	Inhalation	Toluene	mg/m3	0.17	NA	NA	NA	6.2E-03	1.43	0.004
			Route Total						NA			0.004
		Medium Total							NA			0.004

Notes:

- NA = not applicable
- EPC = exposure point concentration; CSF = cancer slope factor; RfD = reference dose
- Average daily intake in units of mg/kg/day
- CSF in units of (mg/kg/day)-1
- RfD in units of mg/kg/day

Residential Air ADI Example calculations:

Hazard Inhalation (EPC mg/m3 x 20 days/year x 6 years x 10 m3/day)/(15 kg x 2190 days)

- Air pathway EPC obtained from conservative sampling in August 2012 - 2 hour Summa canister, normal flow, midday under typical summer conditions, light wind at approximate child/adolescent breathing zone height.
- Exposure factors and generic equations are provided in Table 4.

Table 9 - Summary of Human Health Toxicity Values for Direct Contact Routes
ELMCO Human Health Risk Assessment - 2012 Addendum

Parameter	RfD oral (mg/kg/d)	GI abs	Source	RfD derm (mg/kg/d)	UF/MF Factor	RfD Oral Confidence	RfD oral Source	RfD inh (mg/kg/d)	RfC inh (mg/m3)	UF/MF Factor	RfD/RfC inh Confidence	RfD/RfC inh Source	WoE Class a	SFo (mg/kg/d)-1	SFd (mg/kg/d)-1	SFo Source	Inhalation Unit Risk (/ug/m3)	Inhalation Unit Risk Source	Primary Target Organ
Toluene	0.08	1	Pt E	0.08	3000	Medium	IRIS	1.43	5	10	High	IRIS	D	n/a	n/a	n/a	n/a	n/a	Kidney, neurological

Notes:
- IRIS = USEPA's Integrated Risk Information System (online search 5/2011)
- n/a = not applicable ; NA = not available
- GI abs = gastrointestinal absorption factor
- RfDd = RfDo * GI abs; SFd = Sfo/GI abs
a - Weight of Evidence (WoE) Classification of potential carcinogenicity as used in IRIS
A - Known human carcinogen
B1 - Probable human carcinogen; limited evidence of carcinogenicity in humans
B2 - Probable human carcinogen; adequate evidence in animals; but insufficient evidence in humans
C - Possible human carcinogen
D - Not classifiable as to carcinogenicity/data inadequate to assess carcinogenicity in humans
E - Evidence against carcinogenicity in humans
- Pt E = Risk Assessment Guidance for Superfund, Volume 1: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim

Table 10 - Summary of RME Cancer Risk and Non-Cancer Hazards - Liberty Creek
ELMCO Human Health Risk Assessment - 2012 Addendum

Timeframe: Current
Receptor Population: Recreational Trespasser
Receptor Age: Child

				Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
Medium	Exposure Medium	Exposure Point	Parameter	Ingestion	Dermal	Inhalation	Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Total
Water	Surface Water	Along Liberty Creek below Main Seep	Toluene	NA	NA	NA	NA	Kidney	0.00	0.1	NA	0.1
		Exposure Point Total		NA	NA	NA	NA		0.00	0.1	NA	0.1
Surface Water Total							NA					0.1
Air	Ambient Air	Liberty Creek Channel Corridor	Toluene	NA	NA	NA	NA	Kidney	NA	NA	0.004	0.004
		Exposure Point Total		NA	NA	NA	NA		NA	NA	0.004	0.004
Ambient Air Total							NA					0.004
Total of Receptor Risk/Hazard Across All Media							NA					0.1

Notes:
- NA = not applicable

ATTACHMENT A

ELMCO HUMAN HEALTH RISK ASSESSMENT – 2012 ADDENDUM

AUGUST 2012 AMBIENT AIR MONITORING RESULTS SUMMARY
AND
AQUEOUS MEDIA STATISTICS

TriAD

207 Donelson Pike
Suite 200
Nashville, TN 37214
615-889-6888
fax 615-889-4004

ENVIRONMENTAL CONSULTANTS

August 30, 2012

Mr. Bill Penny
Stites & Harbison PLLC
401 Commerce Street, Suite 800
Nashville, Tennessee 37219

Re: Air Sampling at Liberty Creek
ELMCO Solvent Release Investigation
TriAD Project No. 07-ELM01-01

Dear Bill,

As you know, recent discussions between Egyptian Lacquer Manufacturing Company (ELMCO) representatives and personnel from the Tennessee Division of Remediation (TDOR) resulted in a request from TDOR that additional air data be gathered from the Liberty Creek area. The requested data, to be used in revising and updating the risk assessment prepared by Mark Bowers of Secaps Environmental Inc. (Secaps), were to consist of a time-integrated sample of ambient air from within the creek banks near the solvent-impacted seep known as Liberty Creek – Main Seep (LC-MS). This letter documents the efforts made by TriAD Environmental Consultants, Inc. (TriAD) in collecting the sample and having it analyzed for the volatile organic compound (VOC) of concern. This work was performed by TriAD on behalf of ELMCO, through its attorneys Stites & Harbison, PLLC.

Background

The 2008 risk assessment prepared by Secaps included, among other scenarios, evaluation of risk for recreational users of Liberty Creek. This evaluation was based primarily on children playing in the creek and being exposed to water contaminated by the solvent constituents, which consist of a variety of VOCs. The findings of the risk assessment were that there was little risk posed by such exposure, and that the solvent constituent toluene was the primary VOC of concern.

During recent meetings with Mr. Ahmet Bulbulkaya of TDOR, he expressed concern that the 2008 risk assessment may not have adequately addressed the potential inhalation of VOCs by children playing within the banks of Liberty Creek. Mr. Bulbulkaya therefore requested that the recreational exposure scenario be revised to include actual air sampling data from the site. After some discussion between Mr. Bowers and Mr. Bulbulkaya, it was decided that a SUMMA canister sample should be collected at a breathing-zone height for

adolescents from the air above the waters of Liberty Creek, near the established seep sampling location LC-MS. The resulting sample would be analyzed for toluene and the data used to re-evaluate risk to children who might play for up to two hours at a time in the water of the creek. It was further agreed that the sample should be collected under conditions that would maximize the volatilization of toluene from the creek water. ELMCO agreed that this sampling effort should be undertaken as soon as creek flow and atmospheric conditions were optimal for such a worst-case sample.

Sample Collection

On August 21, 2012, Mr. Chris Scott of TriAD collected the air sample. A SUMMA canister and 2-hour flow regulator, supplied by TestAmerica, were set up on a step ladder placed in Liberty Creek adjacent to the location where flow from LC-MS entered the main creek channel. The SUMMA intake was located 53 inches (4 feet, 5 inches) above the water surface. Photos of the sampling device are presented in Attachment 1. The weather conditions at the beginning of the sampling event, according to on-line data from the National Weather Service, were as follows:

Temperature:	83°F
Humidity:	34%
Pressure:	30.08 inches of Hg, steady
Wind:	Variable from calm to 6 mph from the north-northeast
Cloud Cover:	Mostly sunny

The sampling event began at 12:35 pm with the opening of the valve on the SUMMA canister flow regulator. At that time, the sun was striking the surface of the water through the overhead trees, creating a dappled effect. The water depth at the sample location was about 2 inches and was flowing well. Dark color and a slight biological sheen were observed at LC-MS, but only a slight, indistinct odor was noted. Water flow in the creek was typical for the time of year – the Harpeth River was flowing at approximately 3.5 cubic feet per second at a gage height of 3.04 feet at the highway 96 bridge.

The sampling event was stopped at 2:35 pm by closing the flow-regulator valve, at which time the weather conditions were virtually the same as those recorded at the beginning of the test.

Sample Analysis and Results

The closed SUMMA canister was transferred to TestAmerica under chain-of-custody procedures, where the sample was analyzed for toluene using U.S. EPA Method TO-15. The analysis showed a toluene concentration of 170 ug/m^3, which equals 46 ppb. A copy of the laboratory report is included as Attachment 2.

TriAD appreciates this opportunity to be of continuing service on this project. Please contact me if you have any questions.

Sincerely.

TriAD Environmental Consultants, Inc.

Chris Scott, P.G.
Senior Hydrogeologist

Attachments (2)

cc: Kerry Mattox, ELMCO

ATTACHMENT 1
PHOTOGRAPHS

PHOTOGRAPHS OF LIBERTY CREEK AIR SAMPLING EVENT
AUGUST 21, 2012

Looking upstream at sampling set up. LC-MS behind tree at right.

Sampling set up.

ATTACHMENT 2
LABORATORY REPORT

Triad Environmental Consultants

Client Sample ID: LIBERTY CREEK MS

GC/MS Volatiles

Lot-Sample #	H2H220424 - 001	**Work Order #**	MV83E1AA	**Matrix.....:**	AIR
Date Sampled...:	08/21/2012	**Date Received..:**	08/22/2012		
Prep Date.....:	08/24/2012	**Analysis Date...**	08/25/2012		
Prep Batch #.....:	2240076				
Dilution Factor.:	5	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Toluene	**46**	**1.0**	**170**	**3.8**

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	90	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Triad Environmental Consultants

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2H270000 - 076B **Work Order #** MWA291AA **Matrix.....:** AIR

	08/21/2012	**Date Received..:**	08/22/2012
Prep Date.....:	08/24/2012	**Analysis Date...**	08/24/2012
Prep Batch #.....:	2240076		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Toluene	ND	0.20	ND	0.75

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Triad Environmental Consultants

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2H270000 - 076C **Work Order #** MWA291AC **Matrix.....:** AIR

08/21/2012 **Date Received..:** 08/22/2012

Prep Date.....: 08/24/2012 **Analysis Date...** 08/24/2012

Prep Batch #.....: 2240076

Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Toluene	5.00	3.66	19	13.8	73	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: TriAD Environmental Consultants
Address: 207 Donelson Pike, Suite 200
City/State/Zip Nashville TN 37214
Phone: 615-889-6888
FAX: 615-889-4004
Project Name: ELMCO
Site/location:
PO # 07-ELM01-01

Project Manager: Chris Scott
Phone: 615-889-6888 cscott@triadenv.com
Site Contact:
TAL Contact: Terry Wasmund

Sampled By: Chris Scott

1 of 1 COCs

Analysis Turnaround Time
Standard (Specify) ✓
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 Toluene only	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Liberty Creek MS	8/21/12	1235	1435	-29.2	-8.1	K388	6594	X								X			

Sampled by: Chris Scott

Temperature (Fahrenheit)	Interior	Ambient
Start		83°F
Stop		84°F

Pressure (inches of Hg)	Interior	Ambient
Start		30.08
Stop		30.07

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: Chris Scott	Date/Time: 8/21/12 1520	Received by: Chris Brothers
Relinquished by:	Date/Time:	Received by:

Table A-1 - Liberty Creek Surface Water Toluene Statistics (March 2011 thru July 2012)
ELMCO Human Health Risk Assessment - 2012 Addendum

User Selected Options		General UCL Statistics for Full Data Sets	
From File		WorkSheet.wst	
Full Precision		OFF	
Confidence Coefficient		95%	
Number of Bootstrap Operations		2000	
General Statistics			
Number of Valid Observations	12	Number of Distinct Observations	11
Raw Statistics		Log-transformed Statistics	
Minimum	1.61	Minimum of Log Data	0.476
Maximum	7.84	Maximum of Log Data	2.059
Mean	2.643	Mean of log Data	0.848
Median	1.975	SD of log Data	0.462
SD	1.756		
Coefficient of Variation	0.664		
Skewness	2.751		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.617	Shapiro Wilk Test Statistic	0.783
Shapiro Wilk Critical Value	0.859	Shapiro Wilk Critical Value	0.859
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	3.553	95% H-UCL	3.478
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	4.099
95% Adjusted-CLT UCL (Chen-1995)	3.906	97.5% Chebyshev (MVUE) UCL	4.759
95% Modified-t UCL (Johnson-1978)	3.62	99% Chebyshev (MVUE) UCL	6.056
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	3.212	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.823		
MLE of Mean	2.643		
MLE of Standard Deviation	1.474		
nu star	77.09		
Approximate Chi Square Value (.05)	57.86	Nonparametric Statistics	
Adjusted Level of Significance	0.029	95% CLT UCL	3.476
Adjusted Chi Square Value	55.33	95% Jackknife UCL	3.553
		95% Standard Bootstrap UCL	3.439
Anderson-Darling Test Statistic	1.243	95% Bootstrap-t UCL	5.37
Anderson-Darling 5% Critical Value	0.735	95% Hall's Bootstrap UCL	6.347
Kolmogorov-Smirnov Test Statistic	0.256	95% Percentile Bootstrap UCL	3.494
Kolmogorov-Smirnov 5% Critical Value	0.246	95% BCA Bootstrap UCL	4.071
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	4.852
		97.5% Chebyshev(Mean, Sd) UCL	5.808
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	7.685
95% Approximate Gamma UCL	3.521		
95% Adjusted Gamma UCL	3.682		
Potential UCL to Use		**Use 95% Student's-t UCL**	**3.553**
		or 95% Modified-t UCL	3.62

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Table A-2 - Liberty Creek Main Seep Toluene Statistics (February 2010 thru July 2012)
ELMCO Human Health Risk Assessment - 2012 Addendum

User Selected Options		General UCL Statistics for Full Data Sets	
From File		WorkSheet.wst	
Full Precision		OFF	
Confidence Coefficient		95%	
Number of Bootstrap Operations		2000	
General Statistics			
Number of Valid Observations	12	Number of Distinct Observations	12
Raw Statistics		Log-transformed Statistics	
Minimum	78.4	Minimum of Log Data	4.362
Maximum	236	Maximum of Log Data	5.464
Mean	132.8	Mean of log Data	4.835
Median	132.5	SD of log Data	0.342
SD	47.03		
Coefficient of Variation	0.354		
Skewness	0.949		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.895	Shapiro Wilk Test Statistic	0.929
Shapiro Wilk Critical Value	0.859	Shapiro Wilk Critical Value	0.859
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	157.2	95% H-UCL	163.3
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	190.4
95% Adjusted-CLT UCL (Chen-1995)	159.1	97.5% Chebyshev (MVUE) UCL	215.4
95% Modified-t UCL (Johnson-1978)	157.8	99% Chebyshev (MVUE) UCL	264.5
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	7.073	Data appear Normal at 5% Significance Level	
Theta Star	18.78		
MLE of Mean	132.8		
MLE of Standard Deviation	49.94		
nu star	169.7		
Approximate Chi Square Value (.05)	140.6	Nonparametric Statistics	
Adjusted Level of Significance	0.029	95% CLT UCL	155.1
Adjusted Chi Square Value	136.6	95% Jackknife UCL	157.2
		95% Standard Bootstrap UCL	154.4
Anderson-Darling Test Statistic	0.451	95% Bootstrap-t UCL	161.9
Anderson-Darling 5% Critical Value	0.731	95% Hall's Bootstrap UCL	174.9
Kolmogorov-Smirnov Test Statistic	0.176	95% Percentile Bootstrap UCL	154.7
Kolmogorov-Smirnov 5% Critical Value	0.245	95% BCA Bootstrap UCL	156.5
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	192
		97.5% Chebyshev(Mean, Sd) UCL	217.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	267.9
95% Approximate Gamma UCL	160.3		
95% Adjusted Gamma UCL	165.1		
Potential UCL to Use		**Use 95% Student's-t UCL**	**157.2**

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

ATTACHMENT B

ELMCO HUMAN HEALTH RISK ASSESSMENT – 2012 ADDENDUM

TOXICOLOGICAL PROFILES

Toluene - CAS Number 108883

Toluene is a colorless organic liquid with a sweet pungent odor. Toluene is isolated by distillation of reformed or pyrolized petroleum and coal tar; however, most of the toluene produced remains as a benzene-toluene-xylene (BTX) mixture for use in gasoline. The primary use of isolated toluene is in the production of benzene and for backblending into gasoline to increase octane ratings. Toluene is also used as raw material in the production of benzyl chloride, benzoic acid, phenol, cresols, vinyl toluene, and TNT; as a solvent for paints and coatings; and in adhesives, inks, and pharmaceuticals.

In humans and animals, the primary effect associated with inhalation exposure to toluene is central nervous system (CNS) depression. Short-term exposure of humans to 100-1500 ppm has elicited CNS effects such as fatigue, confusion, incoordination, and impairments in reaction time, perception, motor control and function. Exposure to concentrations ranging from 10,000-30,000 ppm has resulted in narcosis and deaths. Equivocal evidence shows that exposure to toluene in utero causes an increased risk of CNS abnormalities and developmental delay in humans.

No studies on human exposure to toluene and carcinogenicity are available. An increased incidence of hemolymphoreticular neoplasms was reported in rats exposed to 500 mg/kg of toluene by gavage for 2 years; however, results from two long-term inhalation studies indicate that toluene is not carcinogenic at concentrations up to 1200 ppm. Based on U.S. Environmental Protection Agency (EPA) guidelines, toluene was assigned to weight-of-evidence group D, not classifiable as to human carcinogenicity.

The following is a presentation of the toxicity information associated with **Toluene**.

Noncarcinogenic Health Effects

- The Oral Chronic Reference Dose is 8.00E-02 (mg/kg-day).
- The Oral Chronic Reference Dose has a modifying factor of 1.
- The Oral Chronic Reference Dose has an uncertainty factor of 3000.
- The Oral Chronic Reference Dose is based on the NTP study from 1990.
- The Oral Chronic Reference Dose study target organ is kidney.
- The Oral Chronic Reference Dose study critical effect is increased kidney weight.
- The overall confidence in the Oral Chronic Reference Dose is medium.
- The Inhalation Chronic Reference Concentration is 5.00E+00 (mg/m^3).
- The Inhalation Chronic Reference Concentration has a modifying factor of 1.
- The Inhalation Chronic Reference Concentration has an uncertainty factor of 10.
- The Inhalation Chronic Reference Concentration is based on the Foo et al. study from 1990 and multiple others.
- The Inhalation Chronic Reference Concentration study critical effect is neurological effects.
- The overall confidence in the Inhalation Chronic Reference Concentration is high.
- The Dermal Chronic Reference Dose is 8.00E-02 (mg/kg-day).
- The Dermal Chronic Reference Dose is based on a gastrointestinal absorption factor of 1 (per USEPA RAGS Part E).
- The Inhalation Chronic Reference Dose is calculated to be 1.43E+00 (mg/kg-day).