



**PHASE I & LIMITED PHASE II ENVIRONMENTAL
SITE ASSESSMENT**

Chapel Hill Police Department Property

828 Martin Luther King Jr. Boulevard

Chapel Hill, Orange County, NC



Phase I & Limited Phase II Environmental Site Assessment

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Chapel Hill, Orange County, NC

Prepared for:

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PREFACE

This Phase I & Limited Phase II Environmental Site Assessment was conducted between March 12 and July 1, 2013, by Mr. Aric V. Geda, PE, with review performed by Mr. Joshua D. Dunbar, PE of Falcon Engineering, Inc. (Falcon). The opinions and observations rendered in this report are based solely on a site reconnaissance, review of historical land use, research and consultation with available State and local environmental databases and officials, a review of available maps and other records, and limited sampling of sediment, surface water, and groundwater.

The Phase I portion of the Environmental Site Assessment was performed in accordance with generally accepted engineering practices and principles as outlined in ASTM E 1527-05, any deviations in fulfilling the requirements of ASTM E 1527-05 are duly noted within this report. Although Falcon believes that the information contained herein is reliable, a guarantee cannot be made as to the accuracy or completeness of the information provided to Falcon by others.

FALCON ENGINEERING, INC.

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SECTION 1 INTRODUCTION

Falcon Engineering, Inc. (Falcon) conducted a Phase I Environmental Site Assessment in general accordance with ASTM E 1527-05, Standard Practice for Environmental Site Assessments, on a property with the property identification number (PIN) 9789413949. Figure 1 is a general site location map of the subject property.

1.1 Site Location and Description

The evaluated property is approximately a 10.24-acre property located along Martin Luther King Jr. Blvd. in Chapel Hill, North Carolina. The site is located to the east of Martin Luther King Jr. Blvd., with development primarily focused in the northwest corner. The property is located immediately north of Bolin Creek, beginning approximately 200 feet north of the centerline of Hillsborough Street.

The property is currently developed with a 2 story structure approximately 35,000 square feet in size, parking lots, and a few cargo containers used for storage. The site is occupied by the Chapel Hill Police Department. The building is located in the northwest corner, with the majority of parking in the center of the site. The eastern and southern portions of the site are wooded.





FIGURE 1 | GENERAL SITE LOCATION

1.2 Project Objective and Scope of Work

The Town of Chapel Hill retained Falcon to conduct this Phase I & Limited Phase II Environmental Site Assessment. The purpose of the Phase I was to inspect the property for visible signs or indications of environmental conditions that present, or have presented an adverse impact on the site. In addition, historical records were obtained and reviewed to identify adverse conditions (past or present) that may have an environmental impact on the subject site or surrounding properties. The purpose of the limited Phase II was to confirm the absence or presence of environmental impact to site sediments and / or groundwater from potential adverse conditions.

The project goals of the Phase I were accomplished through the completion of the following tasks:

- Review of environmental databases and lists obtained from Federal, State, and local regulatory agencies including historic maps and directories of the site and the surrounding areas.
- Visual inspection of the subject site, including photographic conditions and notation of adjacent property use and conditions.
- Interviews with those knowledgeable of the site's history (as appropriate or required).

The project goals of the Limited Phase II were accomplished through the completion of the following tasks:

- Sediment and groundwater sampling to determine the existing conditions within identified areas on the subject property. Sampling included two sediment sample and 3 water samples.
- Laboratory analyses of samples for chemicals of concern.
- Comparison of analytical results to applicable criteria.



2.1 Land Ownership History

A formal deed search of the subject property was not performed by Falcon. Based upon Orange County Tax Records three owners have possessed deeds on this property as follows:

Prior to 1980	S J HRS SPARROW
1980 – Present	Town of Chapel Hill

The prior owner was not available for interviews concerning historical uses of this property during the course of these Phase I ESA activities.

2.2 Maps and Aerial Photographs

Sanborn Fire Insurance Maps were not available for this site. The Certified Sanborn Map Report can be seen in Appendix A. Historic United State Geological Survey (USGS) topographical maps (Appendix B) and historical aerial photographs (Appendix C) and were obtained and reviewed to determine historic developments at and adjacent to the subject property. The observations from these maps and photographs are as follows:

- 1946 USGS topographic map shows the subject property with no development. A single family residence is constructed across Martin Luther King Jr. Blvd. to the northwest.
- 1960 Aerial photograph shows excavation activity on the subject property along the west central portion of the site and across Martin Luther King Jr. Blvd. to the northwest. A dump truck can be seen on site, along with another on Martin Luther King Jr. Blvd. Residential development exists west of the site. The property to the south of the site appears to have been cleared for development.



- 1969 Aerial photograph shows significant dumping on site across the central portion. Significant piles of material can be seen in the photograph. Residential development exists to the east of the site, and the gas station has been constructed to the south.
- 1975 Aerial photograph shows a cleared and leveled area along the western border of the site. The remaining areas of filling have become overgrown with vegetation. There is development on the property to the northwest of the site.
- 1978 USGS topographic map shows the residential development to the east, but few of the other changes.
- 1981 USGS topographic map shows little change from the previous topographic map.
- 1993 USGS topographic map and aerial photograph both reflect the construction of the police station on the subject site, and additional commercial development to the south.
- 1998 Aerial photograph shows little change to the subject and surrounding properties.
- 2002 USGS topographic map and aerial photograph show little change to the subject and surrounding properties.
- 2004 Aerial photograph shows little change to the property. Cargo containers appear at the east end of the south parking lot.
- 2006 Aerial photograph shows little change to the property. It appears that a utility shed has been constructed at the east end of the north parking lot, and the area northeast of the building has been cleared for construction.
- 2008 Aerial photograph shows little change to the property. It appears that the emergency generator exists in the area northeast of the building.
- 2010 Aerial photograph shows little change to the property. The subject site and surrounding properties generally appear as they exist today.



CURRENT LAND USE AND ADJACENT PROPERTY INFORMATION

Information was collected on potential sources of contamination from adjacent properties such as containers, drums, underground and aboveground storage tanks (USTs and ASTs), and drainage onto the site. To determine land use of the site and the surrounding properties, site reconnaissance of the area was conducted on April 26, 2013, as well as a review of available maps of the site and the surrounding area. Photographs were taken during the site reconnaissance to document environmental conditions, structures, and other key observations on the site. Some of the photographs taken are contained in Appendix D.

3.1 Current Land Use

The subject property was generally undeveloped until the current police station was constructed after 1980. However, as discussed in the Historical Usage section, it appears the site was used as a borrow pit in the late 1950's through early 1960's then as fill site from the mid-1960's to mid-1970's. The site has been the home of the Chapel Hill Police Station since the town acquired it in 1980. During the site reconnaissance, it became apparent that the site had significant amount of fill materials placed at one time. There is a steep slope along the southern portion of the property, where it was apparent that significant fly-ash and debris were placed on the site.

A backup diesel generator exists northeast of the structure. The generator has a self-contained storage tank. No leaks or spills were observed in the area during the reconnaissance.

3.2 Adjacent Property Information

Visual observations were made of the surrounding properties by vehicle and foot to identify any conditions that may present an adverse environmental impact to the subject property. The search was conducted from public right-of-way and did not include access to buildings or entry onto private properties. The following sections summarize land use on adjacent properties. Descriptions of adjacent properties are given in a clockwise order starting at the northern property boundary. No ASTs or indicators of USTs were observed on the surrounding properties.



3.2.1 Northern Property Boundary

The subject property is bounded to the north by Bolinwood Drive, beyond which are single family homes. From the visual observations made and the review of available aerial photography and topographic maps, it is unlikely that any current activities carried out on these properties would have caused any environmental impacts to the subject property.

3.2.2 Eastern Property Boundary

The subject property is bounded immediately to the east by single family homes to the north and multi-tenant apartments to the south. From the visual observations made and the review of available aerial photography and topographic maps, it is unlikely that any current activities carried out on these properties would have caused any environmental impacts to the subject property.

3.2.3 Southern Property Boundary

The subject property is bounded to the south by a single family residence to the southeast, Lloyd's Tire and Alignment to the south central, and a Mobil fuel station to the southwest. Due to the existence of Bolin Creek between the commercial properties and the subject site, it is unlikely that any contaminants from these sites, were they to exist, would impact the subject site.

3.2.4 Western Property Boundary

The subject property is bounded immediately to the west by Martin Luther King Jr. Blvd., beyond which is undeveloped, wooded land and a single family residences. Multi-family apartments exist to the northwest. From the visual observations made and the review of available aerial photography and topographic maps, it is unlikely that any current activities carried out on these properties would have caused any environmental impacts to the subject property.

SECTION 4 Regulatory Review

Falcon contracted with Environmental Data Resources Inc. (EDR) to search the Federal, State, and Tribal environmental databases for properties with the American Society for Testing and Materials (ASTM) specified standard radius of 1/8 to 1 mile (depending upon the database) of the subject property. The EDR report contains all sites or occurrences identified by the database search. For more information regarding the list of databases and identified sites, please refer to Appendix E, which contains the complete EDR report.

The findings of the search are summarized as follows:

- The subject property was not listed in any environmental databases searched.

4.1 National Priorities List (NPL)

A subset of the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database, the National Priorities List (NPL) is compiled by the U.S. Environmental Protection Agency (EPA) pursuant to Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and consists of properties with the highest priority for cleanup pursuant to EPA's Hazard Ranking System.

- No NPL sites were identified within the 1-mile database search area. For further information, refer to Appendix E.

4.2 CERCLIS Sites

The CERCLIS database contains information on potentially hazardous waste sites that have been reported to EPA by States, municipalities, private companies, and private individuals, pursuant to Section 103 of the CERCLA of 1980, as amended. The database contains information on the names, locations, and indicators for National Priority Status and Federal Facility. The EPA does not claim that CERCLIS contains all the potential hazardous waste sites that exist.

- No CERCLIS sites were identified within the database search area. For further information, refer to Appendix E.



4.3 Resource Conservation and Recovery Information System (RCRIS)

Treatment, Storage and Disposal (TSD) Facilities List

The RCRIS database contains information on hazardous waste handlers regulated by EPA under Resource Conservation and Recovery Act (RCRA). The regulated community and RCRA permitting and compliance program personnel supply the data. All hazardous waste handlers are required to notify EPA of their existence by submitting the Federal Notification of Regulated Waste Activity (EPA Form 8700-12) or a State equivalent. The Notification form provides basic identification information, specific hazardous waste activities, and wastes handled. TSD facilities are further required to submit Part A (EPA Form 8700-23) and Part B of their Hazardous Waste Permit Application. The Part A form provides more detailed information concerning wastes handled, plus SIC codes, and process data. Information from the Notification and Part A forms described above, permit issuance data supplied by RCRA permit writers, and *nonsensitive* compliance and enforcement data collected by compliance program personnel are included.

- No RCRIS TSD facilities were found within the database search area. For further information, refer to Appendix E.

4.4 Resource Conservation and Recovery Act (RCRA) Generators List

The RCRIS database contains information on hazardous waste generators regulated by EPA under RCRA. The regulated community and RCRA permitting and compliance program personnel supply the data. All hazardous waste handlers are required to notify EPA of their existence by submitting Federal and/or State forms, which provide basic identification information, specific hazardous waste activities, and wastes handled. A subset of this database is the RCRIS Violations/Corrective Actions (CORRACTS) database. This database is comprised of those facilities with past violations and/or corrective actions under RCRA.

- No RCRIS - Large Quantity Generators (LQG) were found within the search area. For further information, refer to Appendix E.
- Midtown Shops was identified on the Small Quantity Generators (SQG) list within the search area. Due to the existence of Bolin Creek between this site and the subject property, it is unlikely that this site would impact the subject property. For further information, refer to Appendix E.

- LLOYD TIRE & ALIGNMENT, a conditionally Exempt Small Quantity Generator (CESQG) was found with the search area. As indicated previously, due to the existence of Bolin Creek between this site and the subject property, it is unlikely that this site would impact the subject property. For further information, refer to Appendix E.
- No CORRACTS sites were found within the search area. For further information, refer to Appendix E.

4.5 Emergency Response Notification System (ERNS) List

The Emergency Response Notification System (ERNS) is a national computer database used to store information on releases of oil and hazardous substances. The ERNS program is a cooperative data sharing effort among the EPA Headquarters, the Department of Transportation (DOT), the ten (10) EPA Regions, and the National Response Center (NRC).

The ERNS data are captured electronically when a release is reported to the NRC or EPA. When a release is submitted to Federal authorities, the individual reporting the release is asked a series of questions concerning the release and the information is immediately transferred to the appropriate Federal response authority. These initial notifications contain the preliminary release information available at the time of release. The information in ERNS is "unverified" because, at the time of the release, some of the important information may be added to ERNS later; often the only information found in ERNS is that derived from the initial notification.

- No ERNS sites were found within the search area. For further information, refer to Appendix E.

4.6 State Lists of Hazardous Waste Sites

The State of North Carolina publishes these data.

- One State Hazardous Waste Site (SHWS) was identified within the database search area. The site is as follows:
 - UNC-PHILLIPS HALL located over 5000 feet south of the subject property. The SHWS facility ID is S101573932. Given the distance of this property to the subject property, no environmental impacts are expected.

- Two Hazardous Substance Disposal Sites (HSDS) were identified within the database search area. The sites are as follows:
 - UNC-CHAPEL HILL located approximately 2500 feet northwest of the subject property. The HSDS facility ID is S102442306. Given the distance of this property to the subject property, no environmental impacts are expected.
 - UNIVERSITY OF NC/ARPT RD OLD SAN LDFL located over 4500 feet northwest of the subject property. The HSDS facility ID is S102442299. Given the distance of this property to the subject property, no environmental impacts are expected.

4.7 State Leaking Underground Storage Tank (LUST) List

The State of North Carolina publishes these data.

- Twenty Three (23) Leaking Underground Storage Tank (LUST) incident were found within a 1 mile search radius. The sites are as follows:
 - MINIS, LOIS RESIDENCE (Incident # 22668) is located adjacent and north of the site. An underground fuel oil tank leak in 1996 contaminated soil and the risk classification is listed as low. The site was closed later in 1996. Given the nature of this incident, no environmental impacts are expected.
 - WILLIAMS RES UST (Incident # 33891) is located adjacent and northeast of the site. An underground fuel oil tank leak in 1988 contaminated soil. Given the nature of this incident, no environmental impacts are expected
 - RUN-IN-JIMS (Incident # 22628) is located adjacent and south of the site. An underground kerosene tank leak in 1988 contaminated soil. Due to the existence of Bolin Creek between this site and the subject property, it is unlikely that this site would impact the subject property.
 - WESTERN RESIDENTIAL PROPERTIES Seven (7) residential leaking tank sites are located in the subdivision west of the subject property. Given the nature of these incidents, topography, and geological setting, no environmental impacts are expected from these incidents.



- The remaining thirteen (13) leaking tank sites are located over ¼ mile from the subject property. Given the distances, topography, and/or geological setting, no environmental impacts are expected from these incidents.
- For further information with respect to the incidents discussed above, refer to Appendix E.

4.8 State Landfill List (SWF/LF)

The State of North Carolina publishes these data.

- No State landfill was identified within the search area. For further information, refer to Appendix E.

4.9 State Registered Underground Storage Tank (UST) List

The State of North Carolina publishes these data.

- One State registered underground storage tanks (USTs) was identified within the search area. RUN-IN-JIMS is located adjacent and south of the site. An underground fuel oil tank leak in 1988 contaminated soil. Due to the existence of Bolin Creek between this site and the subject property, it is unlikely that this site would impact the subject property. For further information, refer to Appendix E.

4.10 PCB Activity Database (PADS)

The EPA publishes these data.

- The site was not listed within the PADS database search. For further information, refer to Appendix E.

4.11 Federal Superfund Liens (NPL LIENS)

This list is compiled by the Office of Enforcement (OE), EPA, Washington, D.C., based on information submitted by EPA's 10 Regional Offices.

- The site is not found within the Federal Superfund liens database search. For further information, refer to Appendix E.

4.12 Public Water Supply (PWS) Systems

The EPA Office of Drinking Water publishes these data.

- No PWS Systems were located within a mile of the subject site.

4.13 Facility Permits

- From the Facility Index System (FINDS) no sites were identified.

4.14 Leaking Aboveground Storage Tank (LAST) Sites

The State of North Carolina publishes this data.

- One LAST site was located within the search area, over 2500 feet from the subject site. Given the distance, and/or geological setting, no environmental impact is expected from this incident.

SITE RECONNAISSANCE AND CHARACTERIZATION

The purpose of the site reconnaissance was to inspect the property for visible signs or indications of environmental conditions that currently present, or have in the past presented an adverse impact to the site. Mr. Josh Dunbar, PE and Mr. Aric V. Geda, PE, with Falcon conducted site reconnaissance on various occasions during the duration of this project.

5.1 Hazardous Waste and Hazardous Substances

Inspection was made of the subject property and as discussed earlier, fly ash was identified to exist on the subject property. While fly ash is currently not listed as a hazardous waste, this listing is currently being re-evaluated by the EPA. Fly ash is known to contain hazardous substances including heavy metals such as arsenic, lead, mercury, cadmium, chromium and selenium, as well as high concentrations of aluminum, antimony, barium, beryllium, boron, chlorine, cobalt, manganese, molybdenum, nickel, thallium, vanadium, and zinc. These contaminants can leach into the groundwater and impact streams and nearby wells. The existence of fly ash on the subject site is considered a Recognized Environmental Concern (REC) of the site.

5.2 Onsite Storage Tanks

One AST was observed onsite at the time of the field reconnaissance. This is a diesel AST associated with the on-site generator. During site reconnaissance, there were no obvious observed indications (e.g., distressed vegetation, discolored soils, etc.) of leaks, spills, or potential contamination.

5.3 Air Emissions

No visible emissions or unusual odors were observed on or generated from this site. The generator would pose a potential air emission source, however, given the nature and intent of its use at the property (i.e., back up) this source would not be considered an REC.



5.4 Water and Wastewater

Potable water and domestic sewer connections are available for the site.

5.5 Polychlorinated Biphenyls (PCBs)

No pad-mounted electrical transformers or other potential PCB containing devices were observed on the subject property.

5.6 Topography, Geology and Hydrology

A review of the Chapel Hill, NC USGS 7.5-minute 2002 topographic map, which includes the project site, indicates that the site is located on varying elevations from 375 feet above mean sea level (msl) in the northwest corner of the site to 284 feet msl in the southeast corner where the site meets Bolin Creek. The 2010 Topographic Map from Orange County GIS indicates significantly different contours from the USGS maps. This data supports the filling and leveling of the site

The US Natural Resource Conservation Service's Orange County Soil Survey maps Two (2) different soil types on the site:

- TaE – Tatum Silt Loam Complex (15 to 25 percent slopes) - well drained soil derived from red saprolite (50% of the overall subject site).
- WmE – Wedowee Sandy Loam Complex (15 to 25 percent slopes) - well drained soil derived from red saprolite (50% of the overall subject site).

The site is bounded on the north and west by paved streets, to the east by residential developed woodlands and to the south by Bolin Creek. The general site drainage is to the South via overland flow and along stormwater trenches aside Martin Luther King Jr. Blvd. All stormwater drains from this site into Bolin Creek. Very little, if any, surface water comes onto the site from offsite.

5.7 Spills, Leaks, and Stains

No documentation was found that would indicate any spills have occurred on the property. No evidence was found on the property to indicate any type of reportable spill.

SECTION 6 LIMITED PHASE II ESA

Falcon Engineering, Inc. completed a Limited Phase II Environmental Assessment (ESA) at the subject property. The purpose of the limited Phase II environmental assessment was to evaluate the on-site sediment and groundwater for potential contamination within the property boundaries. Based upon our findings from the Phase I ESA work performed, Falcon identified a Recognized Environmental Concern (REC) at the site which included:

- The placement of “fly ash” as fill on the subject site.

Fly ash is known to contain hazardous substances including heavy metals such as arsenic, lead, mercury, cadmium, chromium and selenium, as well as high concentrations of aluminum, antimony, barium, beryllium, boron, chlorine, cobalt, manganese, molybdenum, nickel, thallium, vanadium, and zinc. These contaminants can leach into the groundwater and impact streams and nearby wells.

Our scope of services consisted of sediment and water sampling to determine the existing conditions within identified areas on the subject property. Sampling included the following:

- Two sediment samples; One from monitoring well MW-1 location (labeled S-1); and one from a hand auger location in the area of known fly ash (S-4).
- Three water samples, including samples from both MW-1 and MW-2, and a surface water sample from Bolin Creek.

6.1 Environmental Sampling Methods

All environmental sampling methods followed NCDENR Division of Waste Management’s (DWM) “*Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases*”. Sampling strategy was derived based upon the project scope and objectives.

Based upon the collected historical data, Phase I information, site topography, storm water drainage, sewage drainage, and geologic survey data, an environmental sampling strategy

and locations for samples were determined. Sampling locations were determined based upon the potential for contaminant. These locations are depicted in Figure 2 below. Sampling locations were established to identify any potential environmental concerns.



FIGURE 2 | SAMPLING LOCATION MAP

6.1.1 Sediment Samples

S-1 was obtained using a geoprobe during the installation of MW-1 at a depth of 15 feet below existing ground surface. S-4 was obtained through Hand Auger techniques at a depth of approximately 1 foot below ground surface.

To avoid cross contamination, an unused pair of non-powdered latex gloves was worn while extracting each sample. For the gas range organic (GRO) analysis, a new premeasured syringe was used for each soil sample collection of 5 grams and disposed of after a single use. For this analysis the 5 gram samples were placed into a methanol preserved VOA vial. Duplicate VOA vials were collected for each sampling location. For the diesel range organic (DRO) analysis an unpreserved soil sample was collected in a single 8-oz amber glass jar. Special care was taken during the DRO sample collection to pack the soil into the jar and eliminate unnecessary void space. The labels on each container were then completed so that each provided the date and time of sampling, method of analysis, sample collector, preservative used, and sampling location identification. EPA Method 8015C is used to determine the concentrations of various nonhalogenated volatile organic compounds and semi-volatile organic compounds by gas chromatography. This method is applicable to the analysis of petroleum hydrocarbons. The petroleum hydrocarbons include gasoline range organics (GRO) and diesel range organics (DRO).

Additional sample collections were made for each sample collected to allow for a speciated analysis as desired for both volatile and semi-volatile organic compounds, and metals analyses. EPA Method 8260B, EPA Method 8270D, MADEP EPH, and MADEP VPH are the analytical methods for volatiles. EPA Method 8260B is a method used to determine volatile organic compounds via gas chromatography and mass spectrometry (GC/MS). EPA Method 8270D is a method used to determine semi-volatile organic compounds by GC/MS. MADEP EPH is used for determining extractable petroleum hydrocarbons (EPH) based on various extractions analyzed via GC. MADEP VPH is used to determine volatile petroleum hydrocarbons (VPH) based on a purge and trap with GC procedure using PID and FID in series. Method SW-846 6010C is the method used for all metal except Mercury, which is run by method SW-846 7471B. These were collected to allow for a comparison with NCDENR's risk-based guidelines and were performed on sample S-4 only.

All soil samples remained in an ice-filled cooler from the time they were sampled until they were picked up and transported to the lab. The lapse of time between sampling until arriving at the



lab was less than 48 hours. Chain of custody procedures, including the completion of necessary forms, was followed as per protocol.

6.1.2 Water Samples

MW-1 was obtained using a geoprobe and the installation of a 2" casing with 10' screen to a depth of 40 feet below existing ground surface. The well record can be found in Appendix F. MW-2 was obtained through Hand Auger techniques and installation of a temporary casing to a depth of approximately 8 foot below ground surface. The Bolin Creek Sample was obtained utilizing standard surface water sampling techniques. The following methods were utilized for water analyses:

- Volatiles- EPA Method 8260
- Semi-Volatiles- EPA Method 8270
- Metals- EPA Methods 6010C, 6020A, and 7470A

All water samples remained in an ice-filled cooler from the time they were sampled until they were picked up and transported to the lab. The lapse of time between sampling until arriving at the lab was less than 48 hours. Chain of custody procedures, including the completion of necessary forms, was followed as per protocol.

6.2 Analytical Results

Analytical results indicated the following detections that are above established criteria that could cause regulatory action:

- Sediment sample S-4: Elevated levels of Arsenic, Cadmium, Chromium, Cobalt, Copper, Iron, Manganese and Diesel Range Organics.
- Groundwater Sample MW-1: Elevated levels of Arsenic, Barium, Chromium, Cobalt, Iron, and Manganese.
- Groundwater Sample MW-2: Elevated levels of Barium, Chromium, Cobalt, Copper, Iron, Manganese, Thallium, and Zinc
- Surface water Sample from Bolin Creek: Elevated levels of Iron and Manganese.



The following is a summary of analytical result detections. Full analytical reports are included in Appendix F.

TABLE 1 | SUMMARY OF SOIL AND GROUNDWATER SAMPLING

Compound	Units	SOIL				Groundwater						
		S-1 Results	S-4 Results	Soil to GW MSCC	GW protection RSLs	Units	MW-1 Results	MW-2 Results	Bolin Creek	NC 2L	DW	MCL
Aluminum	mg/Kg	NT	23000	-	23000	ug/l	5600	16000	290	-	16000	-
Antimony	mg/Kg	NT	<4.4	-	0.27	ug/l	5.4	0.61	<2.0	-	6	6
Arsenic	mg/Kg	NT	14	-	0.0013	ug/l	85	8.3	0.9	10	0.045	10
Barium	mg/Kg	NT	24	290	120	ug/l	1100	1100	27	700	29000	2000
Beryllium	mg/Kg	NT	<0.44	-	13	ug/l	1.6	5.5	<0.80	-	16	4
Cadmium	mg/Kg	NT	1.5	-	0.52	ug/l	0.17	0.93	<1.0	2	6.9	5
Calcium	mg/Kg	NT	9900	-	-	ug/l	110000	260000	16000	-	-	-
Chromium	mg/Kg	NT	22	5.4*	0.00059*	ug/l	15	8.4	<2.0	10	0.031*	-
Cobalt	mg/Kg	NT	30	-	0.21	ug/l	15	23	0.37	-	4.7	-
Copper	mg/Kg	NT	65	-	22	ug/l	25	1200	2.6	1000	620	1300
Iron	mg/Kg	NT	59000	-	2700	ug/l	6500	13000	860	-	11000	300
Lead	mg/Kg	NT	20	270	140	ug/l	5.8	27	0.5	15	-	150
Magnesium	mg/Kg	NT	9000	-	-	ug/l	25000	47000	5300	-	-	-
Manganese	mg/Kg	NT	1500	-	210	ug/l	7600	1200	100	50	320	-
Mercury	mg/Kg	NT	0.011	-	0.033	ug/l	ND	0.18	<0.10	1	0.63	2
Nickel	mg/Kg	NT	43	-	110	ug/l	12	70	1.2	100	760	-
Potassium	mg/Kg	NT	680	-	-	ug/l	7600	42,000	2300	-	-	-
Selenium	mg/Kg	NT	<8.8	-	0.4	ug/l	2.5	18	<10	20	78	50
Silver	mg/Kg	NT	<0.88	0.25	0.6	ug/l	ND	0.27	<1.0	20	71	-
Sodium	mg/Kg	NT	150	-	-	ug/l	34000	52000	7800	-	60000**	-
Thallium	mg/Kg	NT	<4.4	-	0.011	ug/l	1	0.48	<0.40	-	0.16	2
Vanadium	mg/Kg	NT	21	-	78	ug/l	38	71	<10	-	78	-
Zinc	mg/Kg	NT	120	-	290	ug/l	52	2200	45	1000	4700	-
GRO	mg/Kg	ND	ND	10			NT	NT	NT			
DRO	mg/Kg	8.0	27	10			NT	NT	NT			
Volatiles	mg/Kg	NT	ND			ug/l	ND	NT	NT			
Semi-Volatiles	mg/Kg	NT	ND			ug/l	ND	NT	NT			
ND= Not Detected												
NT= Not Tested												
* Based on Chromium VI												
** EPA Guidance												

SECTION 7

FINDINGS AND RECOMMENDATIONS

This Phase I Environmental Site Assessment of the property located at 828 Martin Luther King Jr. Blvd. in Chapel Hill, North Carolina, has been performed in conformance with the scope and limitations of ASTM Practice E1527-05.

Based upon the investigations performed at this property no Recognized Environmental Concerns (RECs) were identified for the site except the following :

1. Fly ash was identified to exist on the subject property. Fly ash is known to contain hazardous substances including heavy metals such as arsenic, lead, mercury, cadmium, chromium and selenium, as well as high concentrations of aluminum, antimony, barium, beryllium, boron, chlorine, cobalt, manganese, molybdenum, nickel, thallium, vanadium, and zinc. These contaminants can leach into the groundwater and impact streams and nearby wells. The existence of fly ash on the subject site is considered a Recognized Environmental Concern (REC) of the site.

A Limited Phase II Environmental Assessment was performed in an attempt to evaluate if the REC identified in the Phase I portion has adversely affected the environmental condition of the subject property. The results of the Limited Phase II Assessment indicate:

1. Sediment sampled confirmed the presence of fly ash which exhibited results indicative of environmental contamination above established action levels.
2. Groundwater sampled at the site has been impacted from leaching of the fly ash, exhibiting results indicative of environmental contamination above established action levels.
3. Groundwater appears to be impacting Bolin Creek. Surface water sampled from Bolin Creek exhibited results indicative of environmental contamination above established action levels.
4. A detailed sediment and groundwater investigation will be required to evaluate extent of impacts, potential remedial options, and potential remedial costs.

SECTION 8 LIMITATIONS

Falcon hereby gives notice that any statement or opinion contained in the Report prepared by Falcon shall not be construed to create any warranty or representation that the real property on which the investigation was conducted poses an environmental hazard, is free of pollution, or complies with any or all applicable or statutory requirements, or that the property is fit for any particular purpose.

Unless otherwise indicated in the effort, no attempt was made to check on the compliance of present or past owners of the site with Federal, State, or local laws and regulations. The following responsibilities were distributed to the user or potential user of the subject property, as defined by ASTM 1527-05 and EPA's All Appropriate Inquiries (AAI) Rule:

- Interviews with former property owners concerning historical usage that may have impacted the subject property.
- Any potential environmental cleanup liens filed or recorded against the subject property.
- Activity and use limitations in place at the subject property (i.e., environmental deed restrictions).
- Specialized knowledge or experience related to the property or nearby property.
- Relationship of the purchase price being paid for the property to its value if not contaminated.

The conclusions presented in the Report are based on the services described, and not on scientific tasks or procedures beyond the scope of the described services, which were performed in accordance with the schedule and budget, set forth in the contract with The Town of Chapel Hill.

Any person or entity considering use, acquisition, or other involvement or activity concerning the property shall be solely responsible for determining the adequacy of the property for any and all uses for which that person or entity shall use the property. Any person or entity considering use, acquisition, or other involvement or activity concerning the property which is subject of the Report should enter into any use, occupation, acquisition, or the like on sole reliance of its own judgment and on its own personal investigation of such property, and not in reliance on any

representation by Falcon regarding such property, character, quality, or its value. Falcon performed this assessment in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Falcon shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed by others at the time the assessment was conducted.

APPENDIX A
HISTORIC FIRE INSURANCE MAPS



Town of Chapel Hill

828 Martin Luther King Jr Blvd
Chapel Hill, NC 27514

Inquiry Number: 3549422.3

March 20, 2013

Certified Sanborn® Map Report

Certified Sanborn® Map Report

3/20/13

Site Name:

Town of Chapel Hill
828 Martin Luther King Jr Blvd
Chapel Hill, NC 27514

Client Name:

Falcon Engineering, Inc.
1210 Trinity Road
Raleigh, NC 27607-0000

EDR Inquiry # 3549422.3

Contact: Josh Dunbar



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Falcon Engineering, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Town of Chapel Hill
Address: 828 Martin Luther King Jr Blvd
City, State, Zip: Chapel Hill, NC 27514
Cross Street:
P.O. # E13026
Project: 828 Martin Luther King Blvd
Certification # 48FC-4E0B-A598



Sanborn® Library search results
Certification # 48FC-4E0B-A598

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX B
HISTORIC TOPOGRAPHIC MAPS





Town of Chapel Hill

828 Martin Luther King Jr Blvd
Chapel Hill, NC 27514

Inquiry Number: 3549422.4

March 20, 2013

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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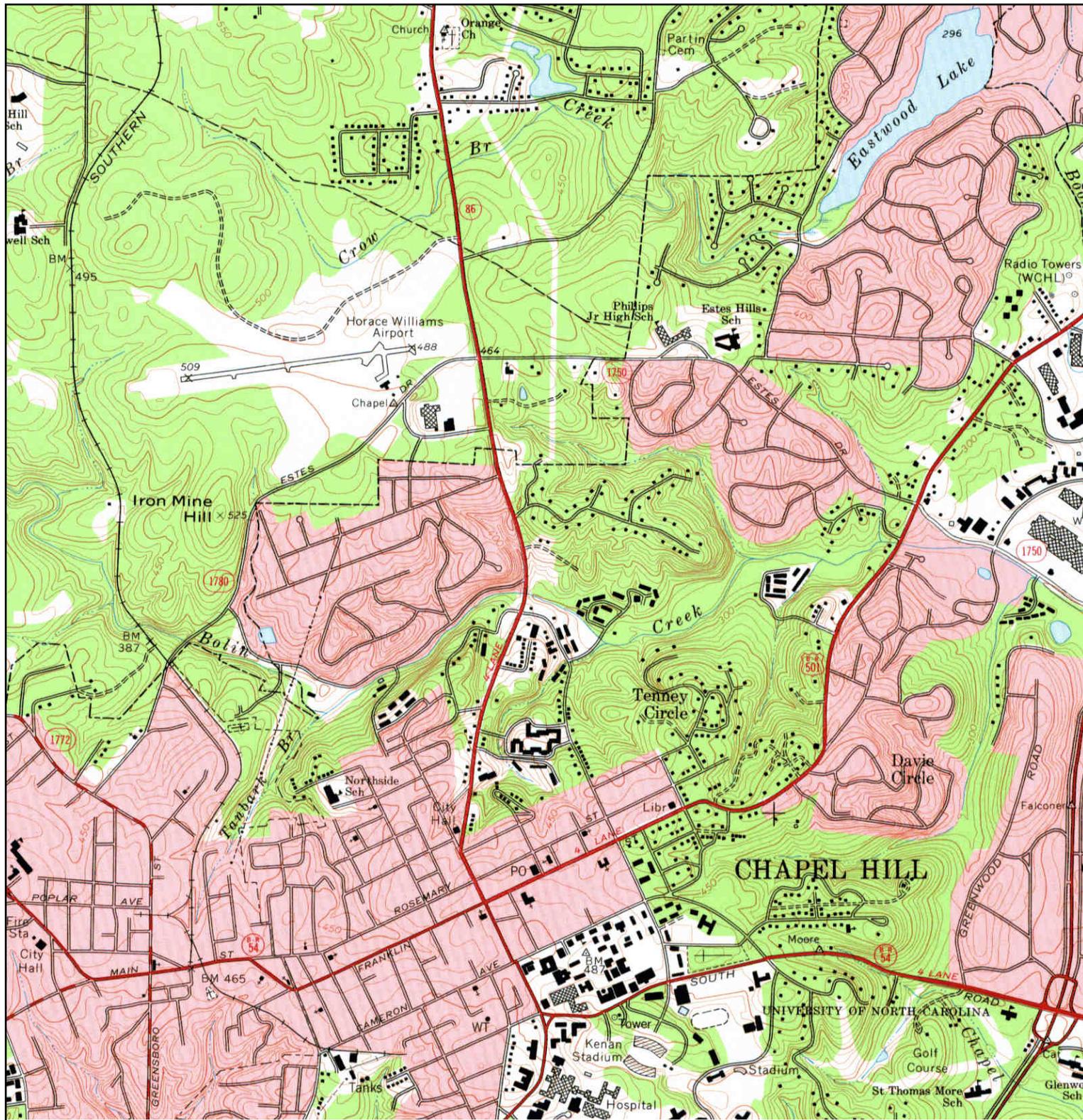
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Historical Topographic Map



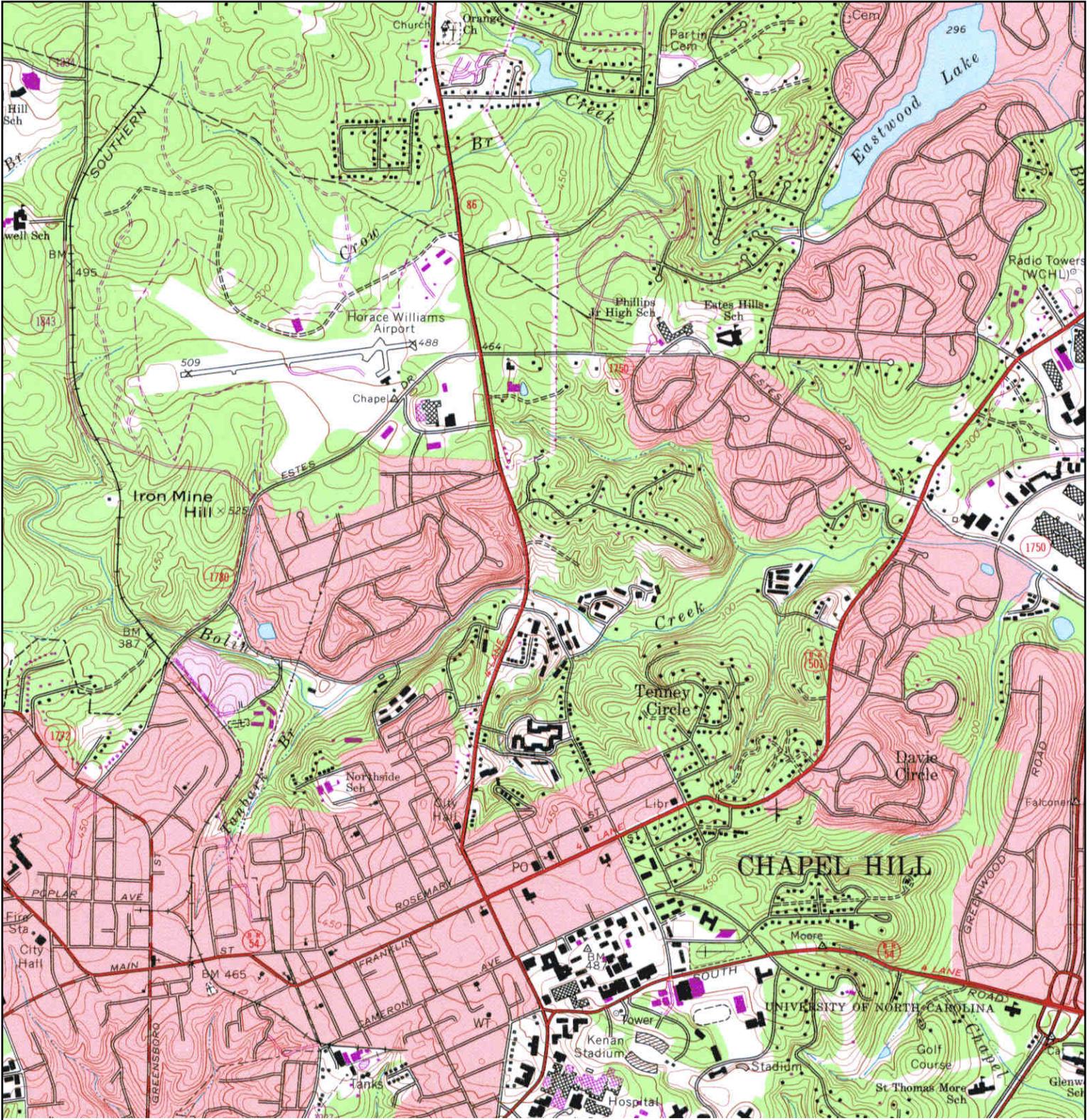
	TARGET QUAD	SITE NAME: Town of Chapel Hill	CLIENT: Falcon Engineering, Inc.
	NAME: CHAPEL HILL	ADDRESS: 828 Martin Luther King Jr Blvd	CONTACT: Josh Dunbar
	MAP YEAR: 1946	LAT/LONG: 35.9268 / -79.0529	INQUIRY#: 3549422.4
	SERIES: 7.5		RESEARCH DATE: 03/20/2013
	SCALE: 1:24000		

Historical Topographic Map



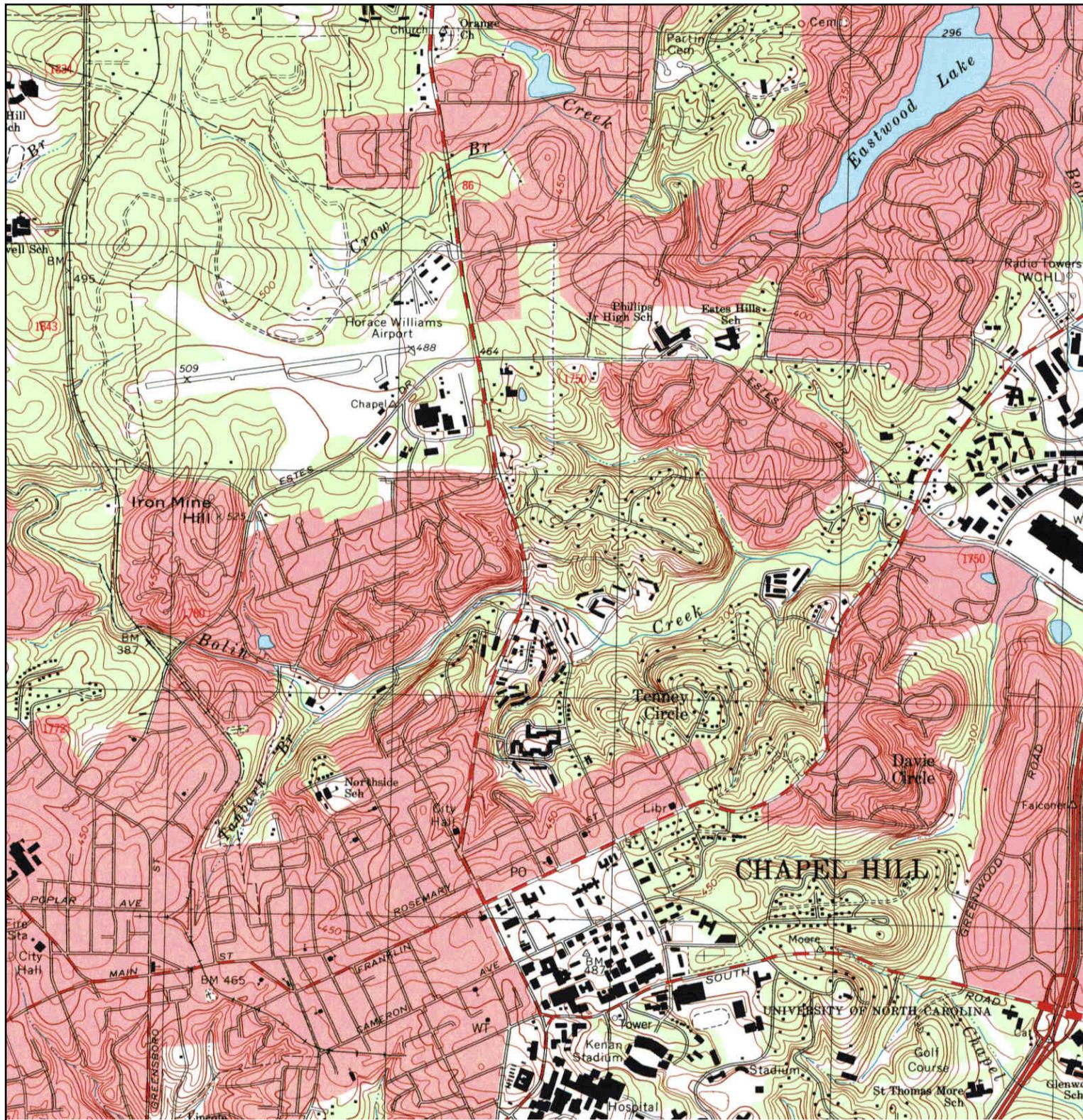
<p>N ↑</p>	<p>TARGET QUAD NAME: CHAPEL HILL MAP YEAR: 1978</p>	<p>SITE NAME: Town of Chapel Hill ADDRESS: 828 Martin Luther King Jr Blvd Chapel Hill, NC 27514 LAT/LONG: 35.9268 / -79.0529</p>	<p>CLIENT: Falcon Engineering, Inc. CONTACT: Josh Dunbar INQUIRY#: 3549422.4 RESEARCH DATE: 03/20/2013</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

Historical Topographic Map



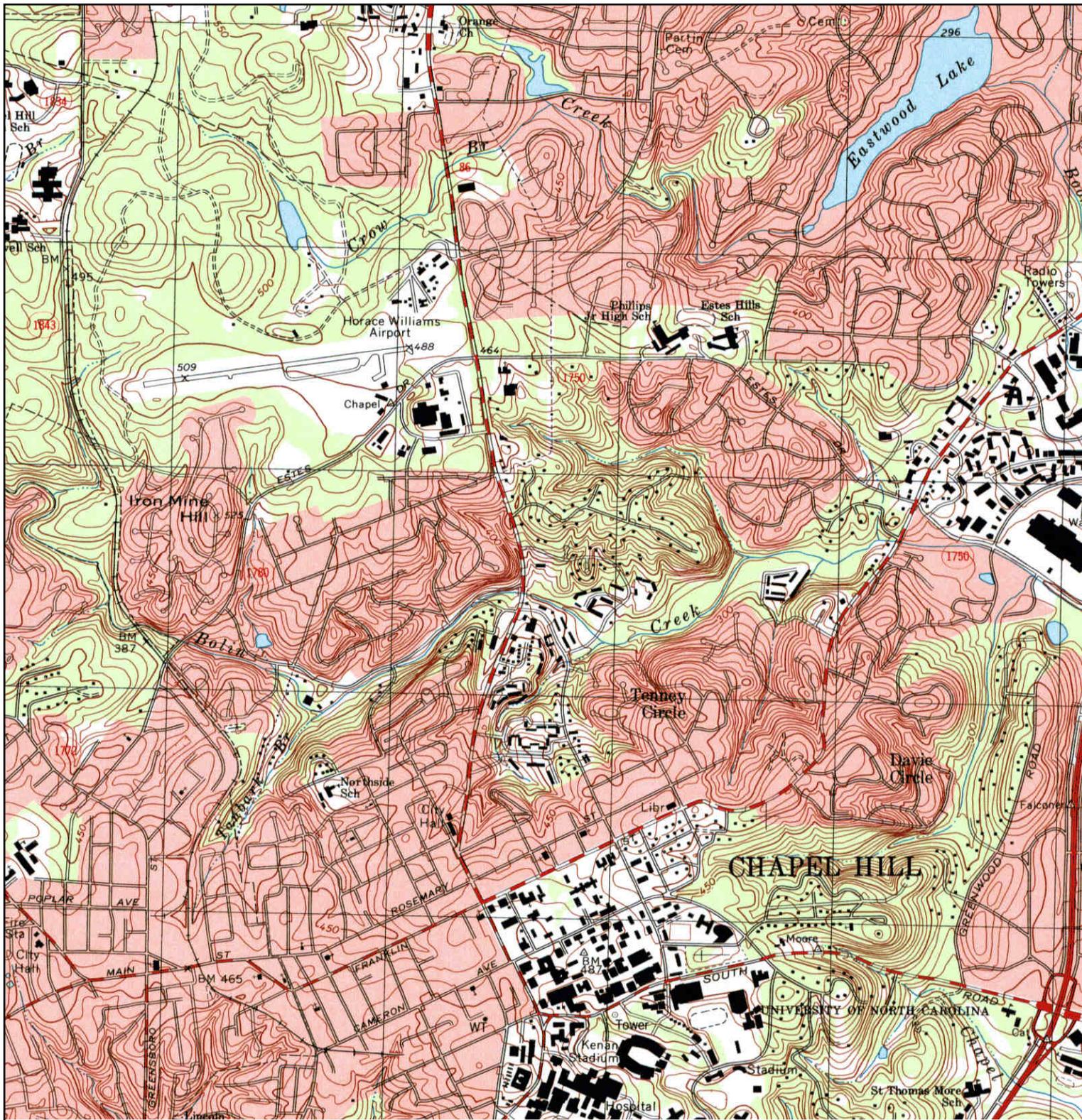
<p>N ↑</p>	TARGET QUAD	SITE NAME: Town of Chapel Hill	CLIENT: Falcon Engineering, Inc.
	NAME: CHAPEL HILL	ADDRESS: 828 Martin Luther King Jr Blvd	CONTACT: Josh Dunbar
	MAP YEAR: 1981	Chapel Hill, NC 27514	INQUIRY#: 3549422.4
	PHOTOREVISED FROM : 1978	LAT/LONG: 35.9268 / -79.0529	RESEARCH DATE: 03/20/2013
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map

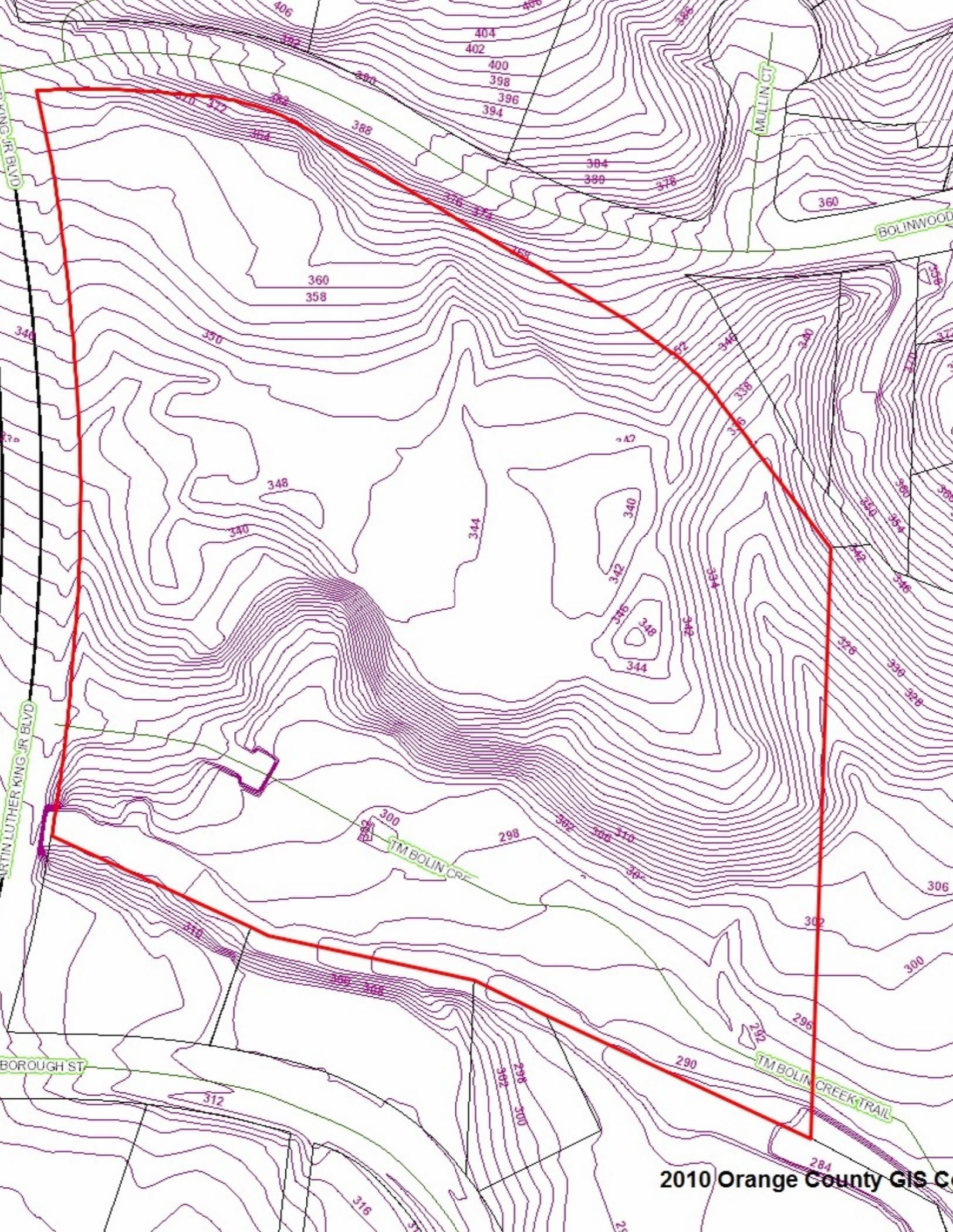


<p>N ↑</p>	<p>TARGET QUAD NAME: CHAPEL HILL MAP YEAR: 1993</p>	<p>SITE NAME: Town of Chapel Hill ADDRESS: 828 Martin Luther King Jr Blvd Chapel Hill, NC 27514 LAT/LONG: 35.9268 / -79.0529</p>	<p>CLIENT: Falcon Engineering, Inc. CONTACT: Josh Dunbar INQUIRY#: 3549422.4 RESEARCH DATE: 03/20/2013</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: CHAPEL HILL MAP YEAR: 2002</p>	<p>SITE NAME: Town of Chapel Hill ADDRESS: 828 Martin Luther King Jr Blvd Chapel Hill, NC 27514 LAT/LONG: 35.9268 / -79.0529</p>	<p>CLIENT: Falcon Engineering, Inc. CONTACT: Josh Dunbar INQUIRY#: 3549422.4 RESEARCH DATE: 03/20/2013</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		



APPENDIX C
HISTORIC AERIAL PHOTOGRAPHS





EL HILLY, N:G

2-99

April 1960



January 1969



April 1975



Image U.S. Geological Survey

February 1993



Image U.S. Geological Survey

April 1998

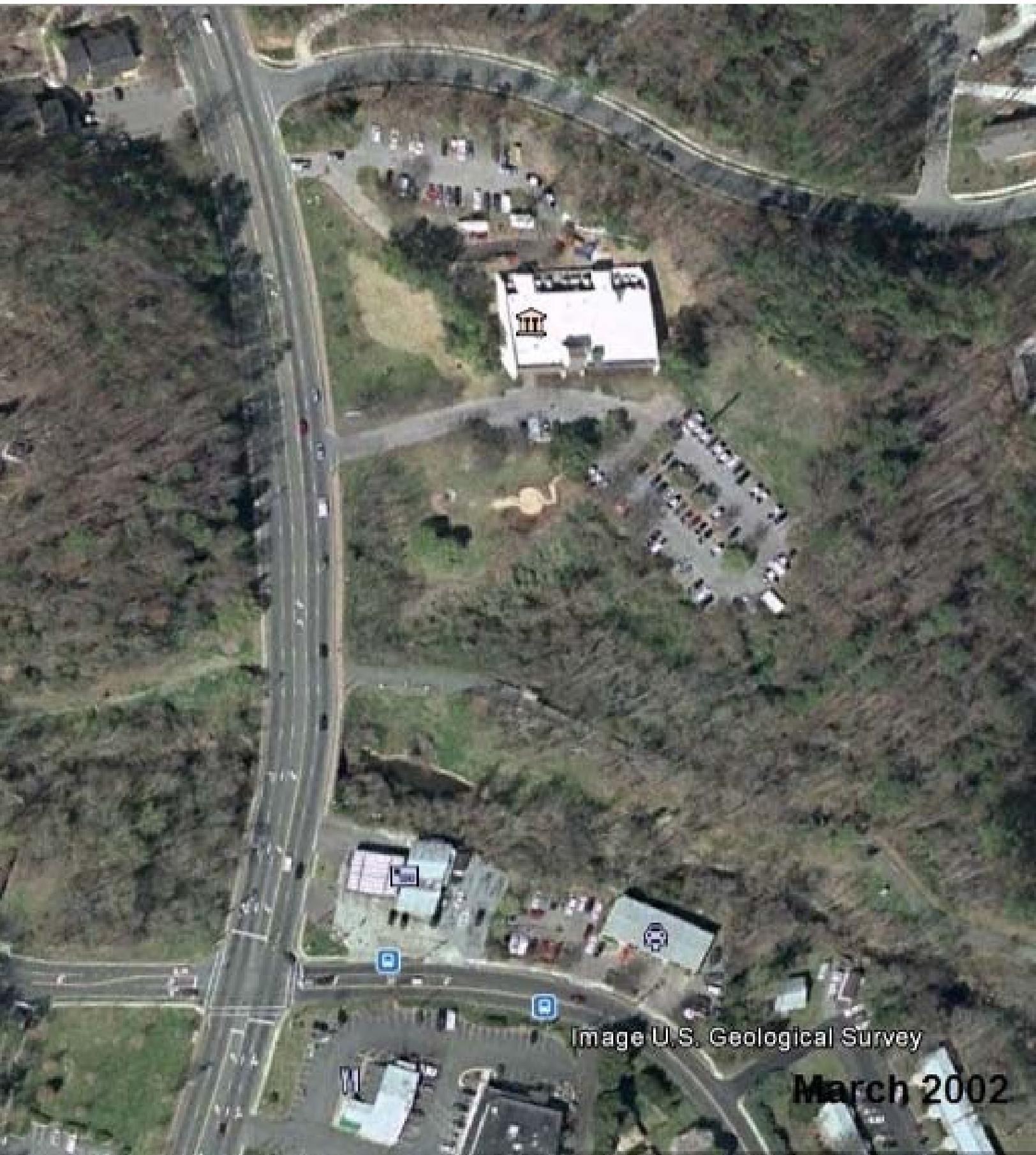


Image U.S. Geological Survey

March 2002



Image © 2013 DigitalGlobe

May 2004





Image U.S. Geological Survey

bruary 2008



SPARROW TRL

MOLLIN CT

BOLINWAY

MARTIN LUTHER KING JR BLVD

MARTIN LUTHER KING JR BLVD

MARTIN LUTHER KING JR BLVD

T.M. BOLIN CREEK TRAIL

MSTAD DR

HILLSBOROUGH ST

MARTIN LUTHER KING JR BLVD

2010

APPENDIX D
PHOTOGRAPHS





Photo 1: View of entrance along MLK Jr. Blvd., looking east.



Photo 2: View of central "leveled" area of site looking east.





Photo 3: View of utility cleanout and building in background, looking northeast.



Photo 4: View of retention area south of lower parking lot.





Photo 5: View of building with stand-by diesel generator in background looking northwest.



Photo 6: View of edge of filled area looking south.



Photo 7: View of fly ash at toe of the slope.

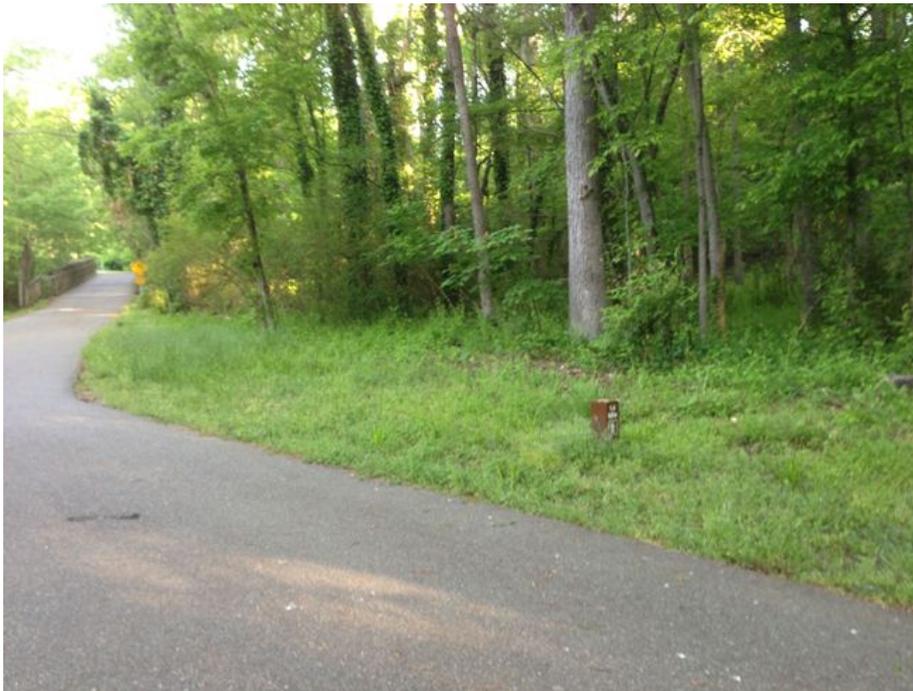


Photo 8: View of Bolin Creek Trail along southern boundary of site looking east.





Photo 9:

View of slope of fly ash fill from toe of slope

APPENDIX E
REGULATORY DATABASE SEARCH

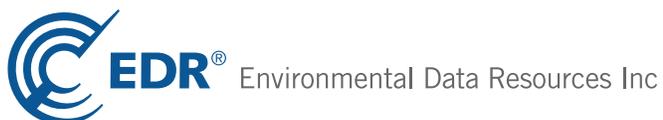


Town of Chapel Hill

828 Martin Luther King Jr Blvd
Chapel Hill, NC 27514

Inquiry Number: 3669805.1s
July 18, 2013

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

828 MARTIN LUTHER KING JR BLVD
CHAPEL HILL, NC 27514

COORDINATES

Latitude (North): 35.9267000 - 35° 55' 36.12"
Longitude (West): 79.0534000 - 79° 3' 12.24"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 675619.4
UTM Y (Meters): 3977369.0
Elevation: 327 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 35079-H1 CHAPEL HILL, NC
Most Recent Revision: 1993

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2012
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... List of Solid Waste Facilities
OLI..... Old Landfill Inventory

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... AST Database
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

INST CONTROL..... No Further Action Sites With Land Use Restrictions Monitoring

EXECUTIVE SUMMARY

State and tribal voluntary cleanup sites

VCP..... Responsible Party Voluntary Action Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Projects Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
HIST LF..... Solid Waste Facility Listing
SWRCY..... Recycling Center Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators
DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

EXECUTIVE SUMMARY

SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
UIC.....	Underground Injection Wells Listing
NPDES.....	NPDES Facility Location Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
PRP.....	Potentially Responsible Parties
2020 COR ACTION.....	2020 Corrective Action Program List
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH.....	Coal Ash Disposal Sites
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
Financial Assurance.....	Financial Assurance Information Listing
LEAD SMELTERS.....	Lead Smelter Sites

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1

EXECUTIVE SUMMARY

RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NCDSCA 068-0005 (MIDTOWN SHOPS)	750 MARTIN L KING JR BL	SSW 1/8 - 1/4 (0.152 mi.)	C14	34

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LLOYD TIRE & ALIGNMENT	730 HILLSBOROUGH ST	SSE 0 - 1/8 (0.048 mi.)	A1	7

State- and tribal - equivalent NPL

NC HSDS: The Hazardous Substance Disposal Sites list contains locations of uncontrolled and unregulated hazardous waste sites. The file contains sites on the national priority list as well as the state priority list. The data source is the North Carolina Center for Geographic Information and Analysis.

A review of the NC HSDS list, as provided by EDR, and dated 08/09/2011 has revealed that there are 2 NC HSDS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNC-CHAPEL HILL		NNW 1/4 - 1/2 (0.471 mi.)	0	7
UNIVERSITY OF NC/ARPT RD OLD S		NW 1/2 - 1 (0.862 mi.)	0	7

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environment & Natural Resources' Inactive Hazardous Sites Program.

A review of the SHWS list, as provided by EDR, and dated 05/24/2013 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNC-PHILLIPS HALL	120 E CAMERON AVE	S 1/2 - 1 (0.973 mi.)	35	89

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incidents Management Database contains an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environment, & Natural Resources' Incidents by Address.

A review of the LUST list, as provided by EDR, and dated 05/10/2013 has revealed that there are 23 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MINIS, LOIS RESIDENCE Incident Phase: Closed Out	6 MT BOLUS RD	N 0 - 1/8 (0.119 mi.)	6	18
GALAS RESIDENCE (JOSEPH) Incident Phase: Closed Out	728 WILLIAMS CIRCLE	W 1/8 - 1/4 (0.128 mi.)	B7	21
HUFFMAN PROPERTY	710 WILLIAMS CIRCLE	W 1/8 - 1/4 (0.133 mi.)	B8	24
LANGDELL RESIDENCE Incident Phase: Closed Out	707 WILLIAMS CIRCLE	W 1/8 - 1/4 (0.135 mi.)	B9	27
WILSON RESIDENCE, TOM Incident Phase: Response	700 WILLIAMS CIRCLE	W 1/8 - 1/4 (0.135 mi.)	B10	30
WILLIAMS RES UST (ELIZ ET AL) Incident Phase: Closed Out	32 MT. BOLUS RD	NE 1/8 - 1/4 (0.188 mi.)	15	36
BRITTON PROPERTY Incident Phase: Closed Out	726 BRADLEY ROAD	W 1/8 - 1/4 (0.213 mi.)	16	38
RANCER PROPERTY Incident Phase: Closed Out	712 BRADLEY COURT	W 1/8 - 1/4 (0.244 mi.)	D17	41
BAXTER ESTATE PROPERTY Incident Phase: Closed Out	710 BRADLEY RD	W 1/8 - 1/4 (0.248 mi.)	D18	44
PAGE ESTATE (EDITH) Incident Phase: Closed Out	120 JUSTICE STREET	NW 1/4 - 1/2 (0.253 mi.)	19	46
HUNT RESIDENCE (EMORY) Incident Phase: Closed Out	304 LONE PINE RD	SE 1/4 - 1/2 (0.268 mi.)	E21	50
LAWLER PROPERTY UST	421 HILLSBOROUGH ST	SSE 1/4 - 1/2 (0.361 mi.)	22	52
UNC-CH SERVICE STATION Incident Phase: Response	109 AIRPORT DRIVE / CB	NW 1/4 - 1/2 (0.417 mi.)	F23	54
UNC GILES F. HORNEY BUILDING	103 AIRPORT DRIVE	NW 1/4 - 1/2 (0.427 mi.)	F24	58
CHAPEL HILL TRANSIT Incident Phase: Closed Out	MUNICIPAL DR.	NNW 1/4 - 1/2 (0.463 mi.)	G25	60
HANSEN REVOCABLE TRUST PROPERT Incident Phase: Closed Out	357 TENNEY CIRCLE	ESE 1/4 - 1/2 (0.467 mi.)	26	63
TOWN OF CHAPEL HILL TRANSIT GA	1089 MARTIN LUTHER KING	NNW 1/4 - 1/2 (0.473 mi.)	G28	67
SPRUYT, JUNE S. - RESIDENCE Incident Phase: Closed Out	265 SEVERIN STREET	W 1/4 - 1/2 (0.483 mi.)	30	71
FLEMING RESIDENTIAL UST Incident Phase: Closed Out	518 NORTH ST	SSE 1/4 - 1/2 (0.485 mi.)	31	75
PUBLIC WORKS GARAGE Incident Phase: Closed Out	1099 AIRPORT RD	NNW 1/4 - 1/2 (0.486 mi.)	G33	79
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RUN-IN-JIMS Incident Phase: Closed Out	800 AIRPORT ROAD	SSW 0 - 1/8 (0.061 mi.)	3	10

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HOLTON RENTALS PROPERTY	607 HILLSBOROUGH ST	SSE 0 - 1/8 (0.117 mi.)	5	16
BARAZANDEH PROPERTY (FARZIN)	311 BURLAGE CIRCLE	ENE 1/4 - 1/2 (0.496 mi.)	34	87

LUST TRUST: This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

A review of the LUST TRUST list, as provided by EDR, and dated 04/03/2013 has revealed that there are 17 LUST TRUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GALAS RESIDENCE (JOSEPH)	728 WILLIAMS CIRCLE	W 1/8 - 1/4 (0.128 mi.)	B7	21
HUFFMAN PROPERTY	710 WILLIAMS CIRCLE	W 1/8 - 1/4 (0.133 mi.)	B8	24
LANGDELL RESIDENCE	707 WILLIAMS CIRCLE	W 1/8 - 1/4 (0.135 mi.)	B9	27
WILLIAMS RES UST (ELIZ ET AL)	32 MT. BOLUS RD	NE 1/8 - 1/4 (0.188 mi.)	15	36
BRITTON PROPERTY	726 BRADLEY ROAD	W 1/8 - 1/4 (0.213 mi.)	16	38
RANCER PROPERTY	712 BRADLEY COURT	W 1/8 - 1/4 (0.244 mi.)	D17	41
BAXTER ESTATE PROPERTY	710 BRADLEY RD	W 1/8 - 1/4 (0.248 mi.)	D18	44
PAGE ESTATE (EDITH)	120 JUSTICE STREET	NW 1/4 - 1/2 (0.253 mi.)	19	46
HUNT RESIDENCE (EMORY)	304 LONE PINE RD	SE 1/4 - 1/2 (0.268 mi.)	E21	50
LAWLER PROPERTY UST	421 HILLSBOROUGH ST	SSE 1/4 - 1/2 (0.361 mi.)	22	52
UNC-CH SERVICE STATION	109 AIRPORT DRIVE / CB	NW 1/4 - 1/2 (0.417 mi.)	F23	54
HANSEN REVOCABLE TRUST PROPERT	357 TENNEY CIRCLE	ESE 1/4 - 1/2 (0.467 mi.)	26	63
SPRUYT, JUNE S. - RESIDENCE	265 SEVERIN STREET	W 1/4 - 1/2 (0.483 mi.)	30	71
FLEMING RESIDENTIAL UST	518 NORTH ST	SSE 1/4 - 1/2 (0.485 mi.)	31	75
PUBLIC WORKS GARAGE	1099 AIRPORT RD	NNW 1/4 - 1/2 (0.486 mi.)	G33	79

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HOLTON RENTALS PROPERTY	607 HILLSBOROUGH ST	SSE 0 - 1/8 (0.117 mi.)	5	16
BARAZANDEH PROPERTY (FARZIN)	311 BURLAGE CIRCLE	ENE 1/4 - 1/2 (0.496 mi.)	34	87

LAST: A listing of leaking aboveground storage tank site locations.

A review of the LAST list, as provided by EDR, and dated 05/10/2013 has revealed that there is 1 LAST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHAPEL HILL TRANSIT GARAGE HYD	1089 MARTIN LUTHER KING	NNW 1/4 - 1/2 (0.473 mi.)	G27	65

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environment & Natural Resources' Petroleum Underground Storage Tank Database.

A review of the UST list, as provided by EDR, and dated 05/10/2013 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>RUN-IN-JIMS</i>	<i>800 AIRPORT ROAD</i>	<i>SSW 0 - 1/8 (0.061 mi.)</i>	<i>3</i>	<i>10</i>

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

IMD: Incident Management Database.

A review of the IMD list, as provided by EDR, and dated 07/21/2006 has revealed that there are 16 IMD sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MINIS RESIDENCE (LOIS)	6 MT. BOLUS RD.	NNW 0 - 1/8 (0.072 mi.)	4	15
<i>MINIS, LOIS RESIDENCE</i>	<i>6 MT BOLUS RD</i>	<i>N 0 - 1/8 (0.119 mi.)</i>	<i>6</i>	<i>18</i>
<i>GALAS RESIDENCE (JOSEPH)</i>	<i>728 WILLIAMS CIRCLE</i>	<i>W 1/8 - 1/4 (0.128 mi.)</i>	<i>B7</i>	<i>21</i>
<i>HUFFMAN PROPERTY</i>	<i>710 WILLIAMS CIRCLE</i>	<i>W 1/8 - 1/4 (0.133 mi.)</i>	<i>B8</i>	<i>24</i>
<i>LANGDELL RESIDENCE</i>	<i>707 WILLIAMS CIRCLE</i>	<i>W 1/8 - 1/4 (0.135 mi.)</i>	<i>B9</i>	<i>27</i>
<i>WILSON RESIDENCE, TOM</i>	<i>700 WILLIAMS CIRCLE</i>	<i>W 1/8 - 1/4 (0.135 mi.)</i>	<i>B10</i>	<i>30</i>
<i>BRITTON PROPERTY</i>	<i>726 BRADLEY ROAD</i>	<i>W 1/8 - 1/4 (0.213 mi.)</i>	<i>16</i>	<i>38</i>
<i>RANCER PROPERTY</i>	<i>712 BRADLEY COURT</i>	<i>W 1/8 - 1/4 (0.244 mi.)</i>	<i>D17</i>	<i>41</i>
HUNT, EMORY RESIDENCE	304 LONE PINE ROAD	SE 1/4 - 1/2 (0.268 mi.)	E20	49
<i>UNC-CH SERVICE STATION</i>	<i>109 AIRPORT DRIVE / CB</i>	<i>NW 1/4 - 1/2 (0.417 mi.)</i>	<i>F23</i>	<i>54</i>
<i>CHAPEL HILL TRANSIT</i>	<i>MUNICIPAL DR.</i>	<i>NNW 1/4 - 1/2 (0.463 mi.)</i>	<i>G25</i>	<i>60</i>
CHAPEL HILL, TOWN OF, TRANSPORTA	1089 AIRPORT ROAD	NNW 1/4 - 1/2 (0.473 mi.)	G29	70
<i>SPRUYT, JUNE S. - RESIDENCE</i>	<i>265 SEVERIN STREET</i>	<i>W 1/4 - 1/2 (0.483 mi.)</i>	<i>30</i>	<i>71</i>
TOWN OF CHAPEL HILL PUBLIC WOR	1099 AIRPORT ROAD	NNW 1/4 - 1/2 (0.486 mi.)	G32	78
<i>PUBLIC WORKS GARAGE</i>	<i>1099 AIRPORT RD</i>	<i>NNW 1/4 - 1/2 (0.486 mi.)</i>	<i>G33</i>	<i>79</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>RUN-IN-JIMS</i>	<i>800 AIRPORT ROAD</i>	<i>SSW 0 - 1/8 (0.061 mi.)</i>	<i>3</i>	<i>10</i>

Other Ascertainable Records

DRYCLEANERS: Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

A review of the DRYCLEANERS list, as provided by EDR, and dated 02/06/2013 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIDTOWN SHOPS	750 MARTIN LUTHER KING	SSW 1/8 - 1/4 (0.152 mi.)	C12	33

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there is 1 EDR US Hist Auto Stat site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	730 HILLSBOROUGH ST	SSE 0 - 1/8 (0.048 mi.)	A2	10

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 2 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

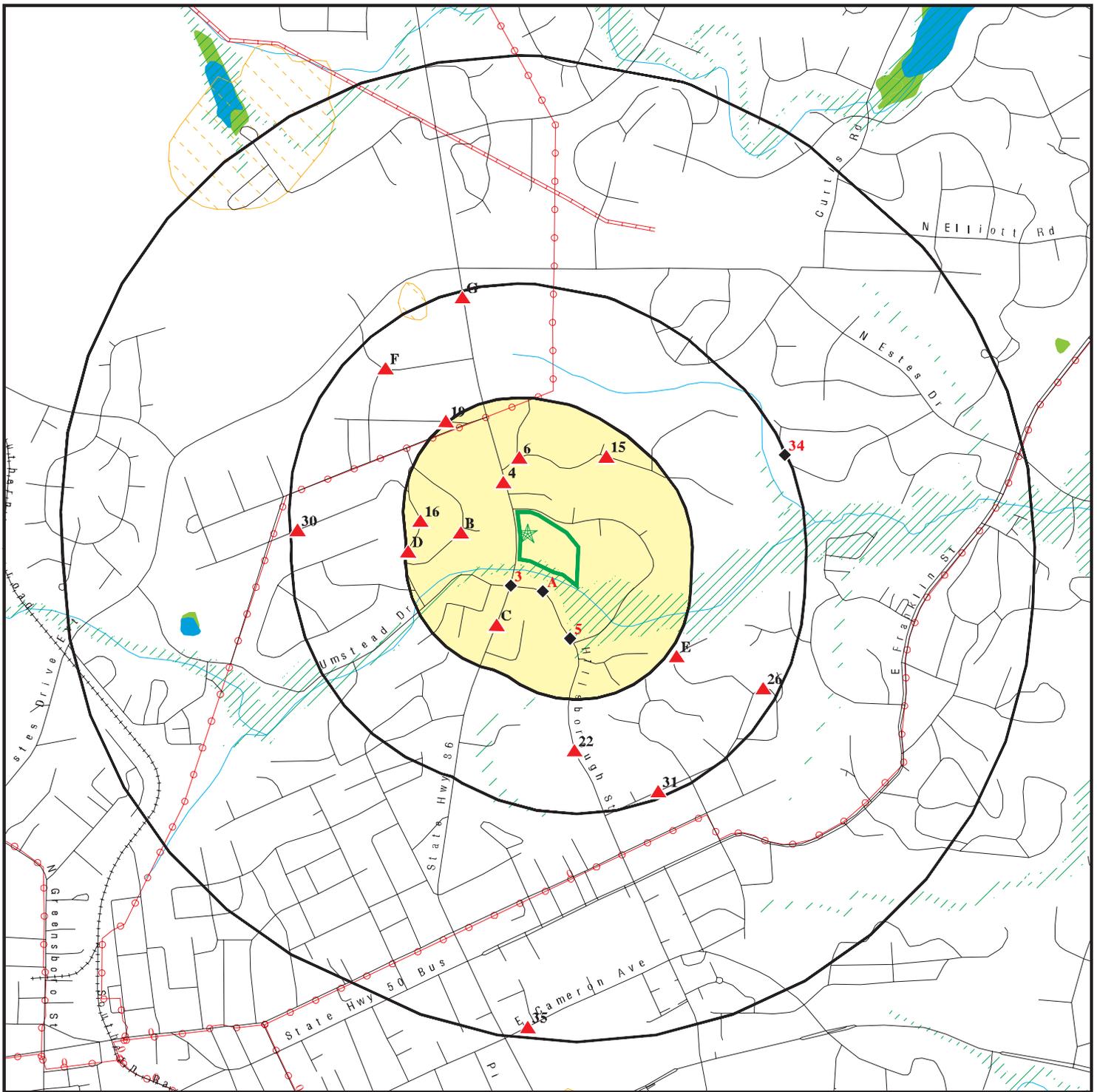
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	750 MARTIN LUTHER KING	SSW 1/8 - 1/4 (0.152 mi.)	C11	33
Not reported	750 AIRPORT RD	SSW 1/8 - 1/4 (0.152 mi.)	C13	34

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
AMERICAN STONE COMPANY - CHAPEL HI	FINDS,RCRA-CESQG,AIRS (AFS)
MIKE CORNER STORE	LAST
BLUE CROSS BLUE SHIELD (DURHAM SER	LAST
UNIVERSITY OF NC/ARPT RD OLD SAN L	CERCLIS-NFRAP
UNIVERSITY OF NC/ARPT WASTE DSPL A	CERCLIS-NFRAP
DOT-N-DASH	IMD,LUST
KIRBY'S AMERICAN STATION PROPERTY	LUST
ROCHELLE PROPERTY (CHARLES)	LUST TRUST,LUST
BEAL-TILLMAN	UST
WAS KIRBY'S AMERICAN STATION	UST
GORDON'S GULF SERVICE	UST
GORDON'S BP SERVICE	UST
J LOUIS ALLEN	UST
TRIPP'S GROCERY	UST
STOP 'N SHOP	UST
JERRY'S STOP & SHOP	UST
CAROLINA CLEANERS	FINDS,RCRA-CESQG
CLEORA STERLING CORP	FINDS,RCRA-CESQG
NORTH CHAPEL BAPTIST CHURCH	FINDS
HILL TOP MHP	FINDS

OVERVIEW MAP - 3669805.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Hazardous Substance Disposal Sites

0 1/4 1/2 1 Miles

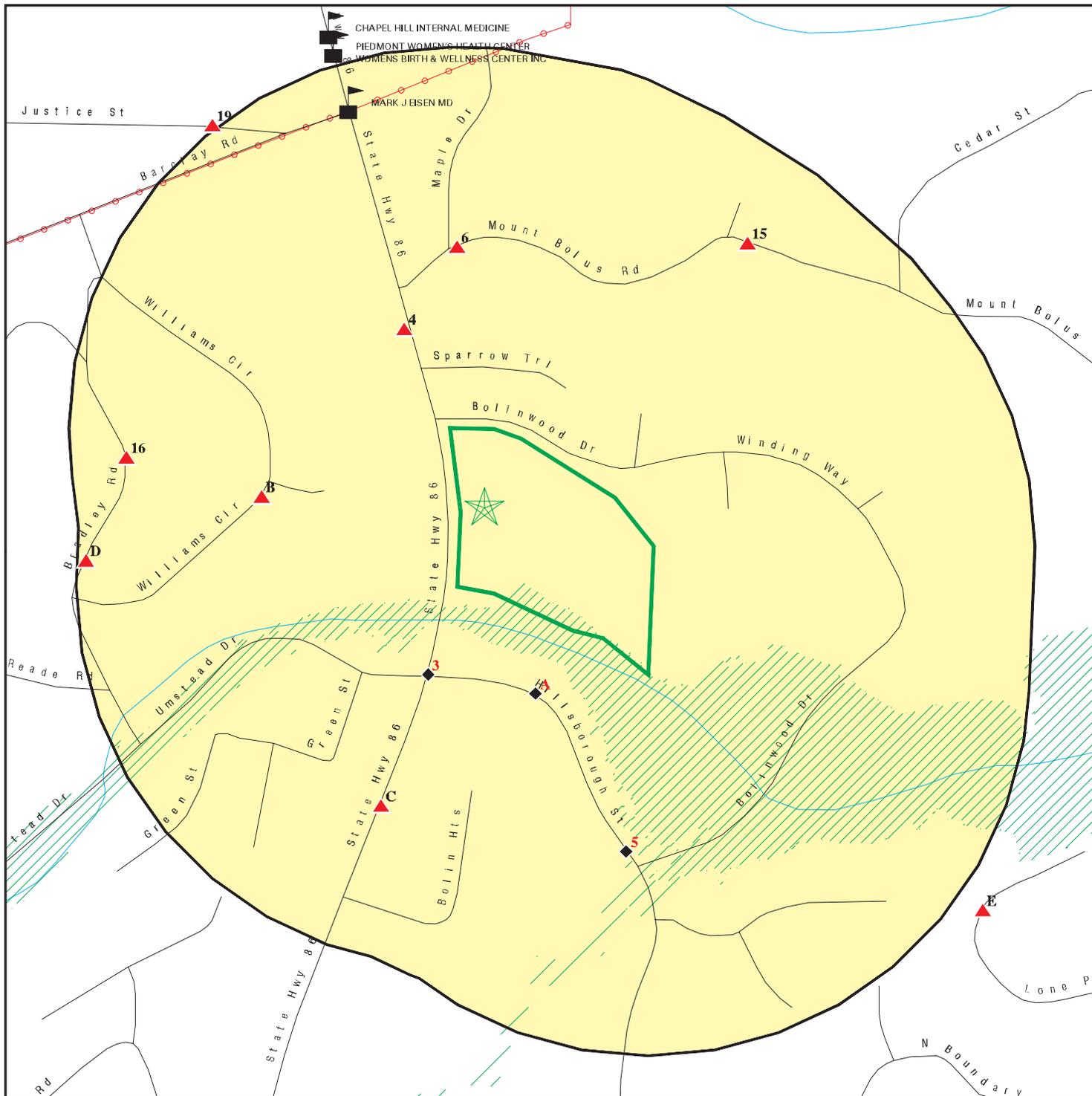


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Town of Chapel Hill
 ADDRESS: 828 Martin Luther King Jr Blvd
 Chapel Hill NC 27514
 LAT/LONG: 35.9267 / 79.0534

CLIENT: Falcon Engineering, Inc.
 CONTACT: Josh Dunbar
 INQUIRY #: 3669805.1s
 DATE: July 18, 2013 4:29 pm

DETAIL MAP - 3669805.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: Town of Chapel Hill ADDRESS: 828 Martin Luther King Jr Blvd Chapel Hill NC 27514 LAT/LONG: 35.9267 / 79.0534</p>	<p>CLIENT: Falcon Engineering, Inc. CONTACT: Josh Dunbar INQUIRY #: 3669805.1s DATE: July 18, 2013 4:35 pm</p>
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		1	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
NC HSDS	1.000		0	0	1	1	NR	2
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	1	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
OLI	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		3	8	12	NR	NR	23

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUST TRUST	0.500		1	7	9	NR	NR	17
LAST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		1	0	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
IMD	0.500		3	6	7	NR	NR	16
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	1	NR	NR	NR	1
NPDES	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		1	0	NR	NR	NR	1
EDR US Hist Cleaners	0.250		0	2	NR	NR	NR	2

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HSDS
Region
NNW
1/4-1/2
2485 ft.

UNC-CHAPEL HILL
, NC

NC HSDS **S102442306**
N/A

HSDS:

Site Type: Federal
Superfund ID: 982 093 783
Lat/Long: 35 56 2.588032 79 3 29.446862
Total area in coverage units: 9737.87109375
Total perimeter in coverage units: 368.07861328
X-value coordinate in feet: 1982775.625
Y-value coordinate in feet: 794875.4375
Sites designated as superfund cleanup sites: 215
Length of feature in internal units: 368.07855304
Area of feature in internal units squared: 9737.86903121

HSDS
Region
NW
1/2-1
4553 ft.

UNIVERSITY OF NC/ARPT RD OLD SAN LDFL
, NC

NC HSDS **S102442299**
N/A

HSDS:

Site Type: Federal
Superfund ID: 980 557 615
Lat/Long: 35 56 23.497704 79 3 50.658644
Total area in coverage units: 237457.15625
Total perimeter in coverage units: 1889.34265136
X-value coordinate in feet: 1981032.75
Y-value coordinate in feet: 796990.6875
Sites designated as superfund cleanup sites: 208
Length of feature in internal units: 1889.34269263
Area of feature in internal units squared: 237457.168419

A1
SSE
< 1/8
0.048 mi.
252 ft.

LLOYD TIRE & ALIGNMENT
730 HILLSBOROUGH ST
CHAPEL HILL, NC

RCRA-CESQG **1000831587**
FINDS **NCD986194959**

Site 1 of 2 in cluster A

Relative:
Lower

RCRA-CESQG:

Date form received by agency: 09/23/2003
Facility name: LLOYD TIRE & ALIGNMENT
Facility address: 730 HILLSBOROUGH ST
CHAPEL HILL, NC 27514
EPA ID: NCD986194959
Mailing address: HILLSBOROUGH ST
CHAPEL HILL, NC 27514
Contact: DOUGLAS LLOYD
Contact address: 730 HILLSBOROUGH ST
CHAPEL HILL, NC 27514
Contact country: US
Contact telephone: (919) 929-9444
Contact email: Not reported
EPA Region: 04
Land type: Private

Actual:
314 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LLOYD TIRE & ALIGNMENT (Continued)

1000831587

Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: DOUGLAS LLOYD
Owner/operator address: Not reported
NC
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1996
Owner/Op end date: Not reported

Owner/operator name: JOHN D LLOYD
Owner/operator address: 6601 TEER RD.
MEBANE, NC 27302
Owner/operator country: Not reported
Owner/operator telephone: (919) 563-1874
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DOUGLAS LLOYD
Owner/operator address: Not reported
NC
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1996
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LLOYD TIRE & ALIGNMENT (Continued)

1000831587

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/15/2003
Facility name: LLOYD TIRE & ALIGNMENT
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/23/2000
Facility name: LLOYD TIRE & ALIGNMENT
Classification: Small Quantity Generator

Date form received by agency: 09/11/1991
Facility name: LLOYD TIRE & ALIGNMENT
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D008
Waste name: LEAD

Facility Has Received Notices of Violations:

Regulation violated: SR - 262.41
Area of violation: Generators - General
Date violation determined: 10/19/1995
Date achieved compliance: 11/08/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/19/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 11/08/1995
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: 11/08/1995
Evaluation lead agency: State

Evaluation date: 10/19/1995
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: 11/08/1995
Evaluation lead agency: State

FINDS:

Registry ID: 110004045989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LLOYD TIRE & ALIGNMENT (Continued)

1000831587

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A2
SSE
< 1/8
0.048 mi.
252 ft.

730 HILLSBOROUGH ST
CHAPEL HILL, NC 27514
Site 2 of 2 in cluster A

EDR US Hist Auto Stat 1015618685
N/A

Relative:
Lower
Actual:
314 ft.

EDR Historical Auto Stations:

Name: LLOYD TIRE & ALIGNMENT
Year: 2002
Address: 730 HILLSBOROUGH ST

Name: LLOYD TIRE & ALIGNMENT CTR
Year: 2003
Address: 730 HILLSBOROUGH ST

Name: LLOYD TIRE & ALIGNMENT CENTER LLC
Year: 2007
Address: 730 HILLSBOROUGH ST

Name: LLOYD TIRE & ALIGNMENT CENTER LLC
Year: 2009
Address: 730 HILLSBOROUGH ST

Name: LLOYD TIRE & ALIGNMENT LLC
Year: 2010
Address: 730 HILLSBOROUGH ST

Name: LLOYD TIRE & ALIGNMENT LLC
Year: 2011
Address: 730 HILLSBOROUGH ST

3
SSW
< 1/8
0.061 mi.
321 ft.

RUN-IN-JIMS
800 AIRPORT ROAD
CHAPEL HILL, NC 27514

IMD U003137604
LUST N/A
UST

Relative:
Lower
Actual:
321 ft.

IMD:

Region: RAL
Facility ID: 22628
Date Occurred: 3/31/1998
Submit Date: 12/11/2000
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: SOIL CONTAMINATION DISCOVERED UPON UST REMOVAL
Operator: Not reported
Contact Phone: 9199421758

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUN-IN-JIMS (Continued)

U003137604

Owner Company: JIMMY MORGAN
Operator Address:800 AIRPORT RD.
Operator City: CHAPEL HILL
Oper City,St,Zip: CHAPEL HILL, NC 27514-
Ownership: Private
Operation: Commercial
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Facility
Setting: Urban
Risk Site: Not reported
Site Priority: U
Priority Code: Not reported
Priority Update: 12/12/2000
Dem Contact: MAF
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.92527777
Longitude: -79.05388888
Latitude Number: 355531
Longitude Number: 790314
Latitude Decimal: 35.9252777777778
Longitude Decimal: 79.0538888888889
GPS: NOD
Agency: DWM
Facility ID: 22628
Last Modified: 12/11/2000
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: 00-0-000
UST Number: RA-3681
Incident Number: 22628
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 06/01/1998
Date Occur: 03/31/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUN-IN-JIMS (Continued)

U003137604

Cleanup: Not reported
Closure Request: Not reported
Close Out: 01/27/2012
Level Of Soil Cleanup Achieved: Residential
Tank Regulated Status: Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: I
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 09/27/2001
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Surface water
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Cleanups to alternate standards
PETOPT: 3
RPL: False
CD Num: Not reported
Reel Num: Not reported
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.5531 -79.0314
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: JIMMY MORGAN
Contact Person: Not reported
Telephone: 9199421758
RP Address: 800 MARTIN LUTHER KING JR BLVD
RP City,St,Zip: CHAPEL HILL, NC 27514-
RP County: orange
Comments: 550 gal kerosene UST and 38 tons of contam soil were removed in 1988. In 2001, a LSA was completed. In 2011, request was made to close site based on existing soil data and 2011 MW resampling data. Based on data, changed risk to Low. Sending soil and gw NRP request NORR. DMD, 10-25-11 ///nfa w gw only nrp. DMD, 1-27-12 ///
5 Min Quad: Not reported

PIRF:

Facility Id: 22628
Date Occurred: 1998-03-31 00:00:00
Date Reported: 2000-12-11 00:00:00
Description Of Incident: SOIL CONTAMINATION DISCOVERED UPON UST REMOVAL
Owner/Operator: JIMMY MORGAN
Ownership: 4
Operation Type: 6

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUN-IN-JIMS (Continued)

U003137604

Type: 3
Location: 1
Site Priority: U
Priority Update: 2000-12-12 00:00:00
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: C
Ust Number: C

Last Modified: 2000-12-11 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

UST:

Facility Id: 00-0-0000022146
Contact: JIMMY . MORGAN
Contact Address1: DBA RUN-IN-JIMS
Contact Address2: 800 AIRPORT ROAD
Contact City/State/Zip: CHAPEL HILL, NC 27514-2600
FIPS County Desc: Orange
Latitude: 35.92519
Longitude: -79.05361

Tank Id: 1
Tank Status: Removed
Installed Date: 05/08/1976
Perm Close Date: 12/31/1998
Product Key: 8
Product Name: Kerosene, Kero Mix
Tank Capacity: 550
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Other
Piping System Key: Unknown
Other CP Tank: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUN-IN-JIMS (Continued)

U003137604

Tank Id: 2
Tank Status: Current
Installed Date: 05/08/1976
Perm Close Date: Not reported
Product Key: 1
Product Name: Diesel
Tank Capacity: 2000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Double Wall FRP
Piping System Key: Pressurized System
Other CP Tank: Not reported

Tank Id: 3
Tank Status: Current
Installed Date: 05/08/1976
Perm Close Date: Not reported
Product Key: 3
Product Name: Gasoline, Gas Mix
Tank Capacity: 3000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Double Wall FRP
Piping System Key: Pressurized System
Other CP Tank: Not reported

Tank Id: 4
Tank Status: Current
Installed Date: 05/08/1976
Perm Close Date: Not reported
Product Key: 3
Product Name: Gasoline, Gas Mix
Tank Capacity: 6000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Double Wall FRP
Piping System Key: Pressurized System
Other CP Tank: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RUN-IN-JIMS (Continued)

U003137604

Tank Id: 5
Tank Status: Current
Installed Date: 05/08/1976
Perm Close Date: Not reported
Product Key: 3
Product Name: Gasoline, Gas Mix
Tank Capacity: 6000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Double Wall FRP
Piping System Key: Pressurized System
Other CP Tank: Not reported

Tank Id: 6
Tank Status: Current
Installed Date: 08/28/1991
Perm Close Date: Not reported
Product Key: 3
Product Name: Gasoline, Gas Mix
Tank Capacity: 8000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall FRP
Piping Construction: Single Wall FRP
Piping System Key: Unknown
Other CP Tank: Not reported

**4
NNW
< 1/8
0.072 mi.
379 ft.**

**MINIS RESIDENCE (LOIS)
6 MT. BOLUS RD.
CHAPEL HILL, NC**

**IMD S104914625
N/A**

**Relative:
Higher**

IMD:

**Actual:
394 ft.**

Region: RAL
Facility ID: 22668
Date Occurred: 3/25/1996
Submit Date: 1/4/2001
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Operator: Not reported
Contact Phone: Not reported
Owner Company: DECEASED
Operator Address: Not reported
Operator City: Not reported
Oper City,St,Zip: NC
Ownership: Private

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MINIS RESIDENCE (LOIS) (Continued)

S104914625

Operation: Residential
 Material: Not reported
 Qty Lost 1: Not reported
 Qty Recovered 1: Not reported
 Source: Leak-underground
 Type: Gasoline/diesel
 Location: Residence
 Setting: Rural
 Risk Site: L
 Site Priority: Not reported
 Priority Code: Not reported
 Priority Update: 1/4/2001
 Dem Contact: MRP
 Wells Affected: No
 Num Affected: Not reported
 Wells Contam: Not reported
 Sampled By: Not reported
 Samples Include: Not reported
 7.5 Min Quad: Not reported
 5 Min Quad: Not reported
 Latitude: 35.92722222
 Longitude: -79.04611111
 Latitude Number: 355538
 Longitude Number: 790246
 Latitude Decimal: 35.92722222222222
 Longitude Decimal: 79.04611111111111
 GPS: NOD
 Agency: DWM
 Facility ID: 22668
 Last Modified: 6/7/2002
 Incident Phase: Closed Out
 NOV Issued: Not reported
 NORR Issued: Not reported
 45 Day Report: Not reported
 Public Meeting Held: Not reported
 Corrective Action Planned: Not reported
 SOC Sighned: Not reported
 Reclassification Report: Not reported
 RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: 4/16/1996

5
 SSE
 < 1/8
 0.117 mi.
 617 ft.

**HOLTON RENTALS PROPERTY
 607 HILLSBOROUGH ST
 CHAPEL HILL, NC 27514**

**LUST S109164495
 LUST TRUST N/A**

**Relative:
 Lower**

LUST:
 Facility ID: Not reported
 UST Number: RA-6024
 Incident Number: 33564
 Contamination Type: Soil
 Source Type: Leak-underground
 Product Type: PETROLEUM
 Date Reported: 07/25/2008
 Date Occur: 07/24/2008

**Actual:
 303 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOLTON RENTALS PROPERTY (Continued)

S109164495

Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: Not reported
Risk Class Based On Review: U
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9245 -79.0526
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: Holton Rentals, LLC
Contact Person: Jerrel Kesling
Telephone: 9196198607
RP Address: PO BOX 2686
RP City,St,Zip: CHAPEL HILL, NC 27515
RP County: Not reported
Comments: 550 GAL RESIDENTIAL HEATING OIL UST RELEASE. 19,000/700 MG/KG TPH DRO/GRO IN SOIL AT 5.75'. TANK REMOVED. LIMITED EXCAVATION TO 14.5 FT DEEP BECAUSE OF FOUNDATION CONCERNS. - DMD,8/27/08.///Per IAA report, risk-based analysis confirmed exceedance of residential soil MSCCs in 3 of 5 samples, and stg MSCCS in the other two samples; groundwater reported at excavation base-DMD,9/23/08.///
5 Min Quad: Not reported
PIRF:
Facility Id: 33564
Date Occurred: 2008-07-24 00:00:00
Date Reported: 2008-07-25 00:00:00
Description Of Incident: 550 GAL RESIDENTIAL HEATING OIL UST RELEASE. 19,000/700 MG/KG TPH DRO/GRO IN SOIL AT 5.75'. DMD,8/27/08.///
Owner/Operator: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOLTON RENTALS PROPERTY (Continued)

S109164495

Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
Site ID: 33564
Site Note: Noncommercial; 100% eligible; \$0 deductible.[CGS 10/12/09]
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

6
North
< 1/8
0.119 mi.
629 ft.

**MINIS, LOIS RESIDENCE
6 MT BOLUS RD
CHAPEL HILL, NC**

**IMD S106349118
LUST N/A**

**Relative:
Higher**

IMD:
Region: RAL
Facility ID: 16285
Date Occurred: 4/11/1996
Submit Date: 9/20/1996
GW Contam: No Groundwater Contamination detected

**Actual:
408 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MINIS, LOIS RESIDENCE (Continued)

S106349118

Soil Contam: Yes
Incident Desc: RELEASE CONFIRMED UPON TANK REMOVAL.
Operator: LOIS MINIS
Contact Phone: 919 967-7513
Owner Company: Not reported
Operator Address: 6 MT BOLUS RD
Operator City: CHAPEL HILL
Oper City, St, Zip: CHAPEL HILL, NC 27514
Ownership: Private
Operation: Residential
Material: #2 FUEL OIL
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Residential
Risk Site: Not reported
Site Priority: 10E
Priority Code: E
Priority Update: Not reported
Dem Contact: MAF
Wells Affected: Not reported
Num Affected: 0
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: Not reported
Longitude: Not reported
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: NOD
Agency: Not reported
Facility ID: 16285
Last Modified: 5/3/2001
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 4/12/1996

LUST:

Facility ID: Not reported
UST Number: RA-3693
Incident Number: 22668
Contamination Type: Soil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MINIS, LOIS RESIDENCE (Continued)

S106349118

Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 04/16/1996
Date Occur: 03/25/1996
Cleanup: Not reported
Closure Request: Not reported
Close Out: 04/16/1996
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 127
Reel Num: 24
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9272 -79.6111
Testlat: Not reported
Regional Officer Project Mgr: MRP
Region: Raleigh
Company: DECEASED
Contact Person: Not reported
Telephone: Not reported
RP Address: Not reported
RP City,St,Zip: NC
RP County: Not reported
Comments: Same as Incident #16285 which was closed out in 4/16/1996. 223 ppm TPH in soil, SSE was 240 ppm TPH so OK to close under rules in effect at that time. RKD.
5 Min Quad: Not reported

PIRF:

Facility Id: 22668
Date Occurred: 1996-03-25 00:00:00
Date Reported: 2001-01-04 00:00:00
Description Of Incident: SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Owner/Operator: DECEASED

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MINIS, LOIS RESIDENCE (Continued)

S106349118

Ownership: 4
 Operation Type: 3
 Type: 4
 Location: 7
 Site Priority: Not reported
 Priority Update: 2001-01-04 00:00:00
 Wells Affected Y/N: N
 Samples Include: Not reported
 7#5 Minute Quad: Not reported
 5 Minute Quad: Not reported
 Pirf/Min Soil: Not reported
 Release Code: Not reported
 Source Code: Not reported
 Err Type: 2
 Cause: Not reported
 Source: E
 Ust Number: E

 Last Modified: 2002-06-07 00:00:00
Incident Phase: Closed Out
 NOV Issued: Not reported
 NORR Issued: Not reported
 45 Day Report: Not reported
 Public Meeting Held: Not reported
 Corrective Action Planned: Not reported
 SOC Signed: Not reported
 Reclassification Report: Not reported
 RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: 1996-04-16 00:00:00

B7
West
1/8-1/4
0.128 mi.
677 ft.

GALAS RESIDENCE (JOSEPH)
728 WILLIAMS CIRCLE
CHAPEL HILL, NC

IMD S106196041
LUST N/A
LUST TRUST

Site 1 of 4 in cluster B

Relative:
Higher

IMD:

Actual:
425 ft.

Region: RAL
 Facility ID: 26486
 Date Occurred: 8/25/2003
 Submit Date: 12/17/2003
 GW Contam: No Groundwater Contamination detected
 Soil Contam: Yes
 Incident Desc: 270 GALLON HEATING OIL UST REMOVED; INITIAL SOIL SAMPLES INDICATED
 CONTAM, 6 TONS SOILS REMOVED, FOLLOWUP SOIL SAMPLES < SOIL TO GW MSCC;

 Operator: Not reported
 Contact Phone: Not reported
 Owner Company: JOSEPH GALAS
 Operator Address: 1210 ALABAMA AVENUE
 Operator City: DURHAM
 Oper City, St, Zip: DURHAM, NC 27705-
 Ownership: Private
 Operation: Residential
 Material: Not reported
 Qty Lost 1: Not reported
 Qty Recovered 1: Not reported
 Source: Leak-underground

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALAS RESIDENCE (JOSEPH) (Continued)

S106196041

Type: Gasoline/diesel
Location: Residence
Setting: Not reported
Risk Site: L
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: MAF
Wells Affected: Unknown
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Y
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.8775
Longitude: -79.05611111
Latitude Number: 355239
Longitude Number: 790322
Latitude Decimal: 35.8775
Longitude Decimal: 79.05611111111111
GPS: 6
Agency: DWM
Facility ID: 26486
Last Modified: 2/20/2004
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-4948
Incident Number: 26486
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 12/12/2003
Date Occur: 08/25/2003
Cleanup: Not reported
Closure Request: Not reported
Close Out: 02/20/2004
Level Of Soil Cleanup Achieved: Soil to Groundwater
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALAS RESIDENCE (JOSEPH) (Continued)

S106196041

NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 233
Reel Num: 116
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.8774 -79.0561
Testlat: Not reported
Regional Officer Project Mgr: MAF
Region: Raleigh
Company: JOSEPH GALAS
Contact Person: Not reported
Telephone: Not reported
RP Address: 1210 ALABAMA AVENUE
RP City,St,Zip: DURHAM, NC 27705-
RP County: Not reported
Comments: 12/17/2003 - 90 DAY REPORT SUBMITTED. 270 GALLON HEATING OIL UST
REMOVED, 6 TONS CONTAMINATED SOILS EXCAVATED & DISPOSED OF, INITIAL
SOIL SAMPLE AT 4'-5' FOUND 270 PPM (3550), AFTER SOILS WERE EXCAVATED
FOLLOWUP SOIL SAMPLE TAKEN AT 6' FOUND < SOIL TO GW. 02/20/04 - NFA
ISSUED.
5 Min Quad: Not reported

PIRF:

Facility Id: 26486
Date Occurred: 2003-08-25 00:00:00
Date Reported: 2003-12-17 00:00:00
Description Of Incident: 270 GALLON HEATING OIL UST REMOVED; INITIAL SOIL SAMPLES INDICATED
CONTAM, 6 TONS SOILS REMOVED, FOLLOWUP SOIL SAMPLES < SOIL TO GW MSCC;
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: U
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GALAS RESIDENCE (JOSEPH) (Continued)

S106196041

Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: C
Ust Number: C

Last Modified: 2004-02-20 00:00:00

Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
Site ID: 26486
Site Note: Not reported
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 100000
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

B8
West
1/8-1/4
0.133 mi.
701 ft.

HUFFMAN PROPERTY
710 WILLIAMS CIRCLE
CHAPEL HILL, NC

Site 2 of 4 in cluster B

IMD S104547347
LUST N/A
LUST TRUST

Relative:
Higher

IMD:

Region: RAL
Facility ID: 21888
Date Occurred: 1/14/2000
Submit Date: 6/16/2000
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: (1) 550 GAL HEATING OIL UST LEAKS & IS STILL IN GROUND REMOVED SOON. SAMP FROM SITE DIESEL RANGE 1390.20 PPM: 3550. FURTHER INVEST REQUIRED
Operator: CAMERON HUFFMAN
Contact Phone: 9199683271
Owner Company: Not reported
Operator Address: 113 MILL RUN DRIVE
Operator City: CHAPPEL HILL
Oper City, St, Zip: CHAPPEL HILL, NC 27514-
Ownership: Private
Operation: Residential

Actual:
423 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUFFMAN PROPERTY (Continued)

S104547347

Material: HEATING OIL
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Residential
Risk Site: L
Site Priority: Not reported
Priority Code: Not reported
Priority Update: 7/20/2000
Dem Contact: MAF
Wells Affected: Not reported
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Responsible Parties
Samples Include: Soil Samples
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.92555555
Longitude: -79.05888888
Latitude Number: 355532
Longitude Number: 790332
Latitude Decimal: 35.9255555555556
Longitude Decimal: 79.0588888888889
GPS: NOD
Agency: DWM
Facility ID: 21888
Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-3415
Incident Number: 21888
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 02/24/2000
Date Occur: 01/14/2000
Cleanup: 01/14/2000
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Residential
Tank Regulated Status: Non Regulated
Of Supply Wells: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUFFMAN PROPERTY (Continued)

S104547347

Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 11/21/2001
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Surface water
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: Not reported
Reel Num: Not reported
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.5531 -79.0331
Testlat: Not reported
Regional Officer Project Mgr: CED
Region: Raleigh
Company: Not reported
Contact Person: CAMERON HUFFMAN
Telephone: 9199683271
RP Address: 113 MILL RUN DRIVE
RP City,St,Zip: CHAPEL HILL, NC 27514-
RP County: orange
Comments: SAR (04/03/2001) approved. 11/19/2001).
5 Min Quad: Not reported

PIRF:

Facility Id: 21888
Date Occurred: 2000-01-16 00:00:00
Date Reported: 2000-06-16 00:00:00
Description Of Incident: (1) 550 GAL HEATING OIL UST LEAKS & IS STILL IN GROUND REMOVED SOON.
SAMP FROM SITE DIESEL RANGE 1390.20 PPM: 3550. FURTHER INVEST REQUIRED
Owner/Operator: CAMERON & JENNIFER HUFFMAN
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: 2000-07-20 00:00:00
Wells Affected Y/N: Not reported
Samples Include: Not reported
7#5 Minute Quad: 3
5 Minute Quad: 2
Pirf/Min Soil: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUFFMAN PROPERTY (Continued)

S104547347

Release Code: Not reported
Source Code: PIRF
Err Type: Not reported
Cause: Not reported
Source: Not reported
Ust Number: Not reported

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
Site ID: 21888
Site Note: Not reported
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

B9
West
1/8-1/4
0.135 mi.
713 ft.

LANGDELL RESIDENCE
707 WILLIAMS CIRCLE
CHAPEL HILL, NC

Site 3 of 4 in cluster B

IMD S105119909
LUST N/A
LUST TRUST

Relative:
Higher

IMD:

Actual:
422 ft.

Region: RAL
Facility ID: 22719
Date Occurred: 9/11/2000
Submit Date: 1/5/2000
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: SOIL CONTAMINATION DISCOVERED UPON UST REMOVAL
Operator: ALICE LANGDELL
Contact Phone: 9199295672
Owner Company: Not reported
Operator Address: 707 WILLIAMS CIRCLE
Operator City: CHAPEL HILL
Oper City, St, Zip: CHAPEL HILL, NC 27516-
Ownership: Private
Operation: Residential
Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANGDELL RESIDENCE (Continued)

S105119909

Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Residential
Risk Site: L
Site Priority: U
Priority Code: Not reported
Priority Update: 1/5/2001
Dem Contact: MRP
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.92666666
Longitude: -79.05666666
Latitude Number: 355536
Longitude Number: 790324
Latitude Decimal: 35.9266666666667
Longitude Decimal: 79.0566666666667
GPS: NOD
Agency: DWM
Facility ID: 22719
Last Modified: 2/28/2001
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1/17/2001

LUST:

Facility ID: Not reported
UST Number: RA-3732
Incident Number: 22719
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 11/20/2000
Date Occur: 09/11/2000
Cleanup: Not reported
Closure Request: 2000-11-20 00:00:00
Close Out: 01/17/2001
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANGDELL RESIDENCE (Continued)

S105119909

Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 12/14/2000
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 127
Reel Num: 24
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9262 -79.0571
Testlat: Not reported
Regional Officer Project Mgr: MRP
Region: Raleigh
Company: Not reported
Contact Person: ALICE LANGDELL
Telephone: 9199295672
RP Address: 707 WILLIAMS CIRCLE
RP City,St,Zip: CHAPEL HILL, NC 27516-
RP County: Orange
Comments: One (1) 550 gal heating oil ust was removed 10/5/00.
5 Min Quad: Not reported

PIRF:

Facility Id: 22719
Date Occurred: 2000-09-11 00:00:00
Date Reported: 2000-01-05 00:00:00
Description Of Incident: SOIL CONTAMINATION DISCOVERED UPON UST REMOVAL
Owner/Operator: ALICE LANGDELL
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: U
Priority Update: 2001-01-05 00:00:00
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LANGDELL RESIDENCE (Continued)

S105119909

Err Type: 2
Cause: Not reported
Source: C
Ust Number: C

Last Modified: 2001-02-28 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 2001-01-17 00:00:00

LUST TRUST:

Facility ID: Not reported
Site ID: 22719
Site Note: Not reported
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

B10
West
1/8-1/4
0.135 mi.
715 ft.

WILSON RESIDENCE, TOM
700 WILLIAMS CIRCLE
CHAPEL HILL, NC
Site 4 of 4 in cluster B

IMD S101573544
LUST N/A

Relative:
Higher

IMD:

Actual:
421 ft.

Region: RAL
Facility ID: 12051
Date Occurred: 3/29/1994
Submit Date: 4/21/1994
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: TANK REMOVED; SOIL SAMPLE CONFIRMED SOIL CONTAMINATION.
Operator: TOM WILSON
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: 700 WILLIAMS CIRCLE
Operator City: CHAPEL HILL
Oper City, St, Zip: CHAPEL HILL, NC 27516-
Ownership: Private
Operation: Residential
Material: #2 FUEL OIL
Qty Lost 1: Not reported
Qty Recovered 1: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILSON RESIDENCE, TOM (Continued)

S101573544

Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Residential
Risk Site: L
Site Priority: 10E
Priority Code: E
Priority Update: Not reported
Dem Contact: CED
Wells Affected: Not reported
Num Affected: 0
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.9284
Longitude: -79.0574
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: 4
Agency: DWM
Facility ID: 12051
Last Modified: Not reported
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-1949
Incident Number: 12051
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 04/21/1994
Date Occur: 03/29/1994
Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILSON RESIDENCE, TOM (Continued)

S101573544

Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 10E
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: Not reported
Reel Num: Not reported
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9258 -79.0577
Testlat: Not reported
Regional Officer Project Mgr: CED
Region: Raleigh
Company: Not reported
Contact Person: TOM WILSON
Telephone: Not reported
RP Address: 700 WILLIAMS CIRCLE
RP City,St,Zip: CHAPEL HILL, NC 27516-
RP County: Not reported
Comments: CONTAMINATION FOUND UPON REMOVAL OF 550-GAL HEATING OIL UST. UST ON
BEDROCK. 04/94 - Soil sampling report submitted: Tank removed
03/14/94. Soils collected directly at UST base (each end of UST) >
TPH. Additional sampling conducted at sidewall locations 5' from UST
location. Soils < TPH. - CED ///
I44X
5 Min Quad:

PIRF:

Facility Id: 12051
Date Occurred: 1994-03-29 00:00:00
Date Reported: 1994-04-21 00:00:00
Description Of Incident: TANK REMOVED; SOIL SAMPLE CONFIRMED SOIL CONTAMINATION.
Owner/Operator: TOM WILSON
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: 10E
Priority Update: Not reported
Wells Affected Y/N: Not reported
Samples Include: 0
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WILSON RESIDENCE, TOM (Continued)

S101573544

Release Code: Not reported
 Source Code: Min_Soil
 Err Type: Not reported
 Cause: Not reported
 Source: Not reported
 Ust Number: Not reported

Last Modified: Not reported
Incident Phase: Response
 NOV Issued: Not reported
 NORR Issued: Not reported
 45 Day Report: Not reported
 Public Meeting Held: Not reported
 Corrective Action Planned: Not reported
 SOC Signed: Not reported
 Reclassification Report: Not reported
 RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: Not reported

C11
SSW
1/8-1/4
0.152 mi.
803 ft.

750 MARTIN LUTHER KING JR BLVD
CHAPEL HILL, NC 27514

EDR US Hist Cleaners 1015093467
N/A

Site 1 of 4 in cluster C

Relative:
Higher

EDR Historical Cleaners:
 Name: TOWN & COUNTRY LAUNDROMAT
 Year: 2009
 Address: 750 MARTIN LUTHER KING JR BLVD

Actual:
342 ft.

Name: TOWN & COUNTRY LAUNDROMAT
 Year: 2010
 Address: 750 MARTIN LUTHER KING JR BLVD

C12
SSW
1/8-1/4
0.152 mi.
803 ft.

MIDTOWN SHOPS
750 MARTIN LUTHER KING JR BLVD
CHAPEL HILL, NC 27514

DRYCLEANERS S106916911
N/A

Site 2 of 4 in cluster C

Relative:
Higher

DRYCLEANERS:
 Facility ID: 068-0005
 Status: Interim Action
 Lat/Long: 35.923751831054 -79.05439758300
 ID Number: 680005
 Shopping Center: Midtown Shops
 Certified Date: 04/27/2005
 PM: DT
 Project Manager: Diane Thomas
 Phone Number: (919)707-8362

Actual:
342 ft.

Facility ID: 068-0005
 Status: Not reported
 Lat/Long: 35.923751831054 -79.05439758300
 ID Number: 680005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MIDTOWN SHOPS (Continued)

S106916911

Shopping Center: Midtown Shops
Certified Date: Not reported
PM: Not reported
Project Manager: Not reported
Phone Number: Not reported

C13
SSW
1/8-1/4
0.152 mi.
803 ft.

750 AIRPORT RD
CHAPEL HILL, NC 27514

EDR US Hist Cleaners 1015093445
N/A

Site 3 of 4 in cluster C

Relative:
Higher

EDR Historical Cleaners:

Name: TOWN & COUNTRY LAUNDROMAT
Year: 1999
Address: 750 AIRPORT RD

Actual:
342 ft.

Name: TOWN & COUNTRY LAUNDROMAT
Year: 2000
Address: 750 AIRPORT RD

Name: TOWN & COUNTRY LAUNDROMAT
Year: 2001
Address: 750 AIRPORT RD

Name: TOWN & COUNTRY LAUNDROMAT
Year: 2003
Address: 750 AIRPORT RD

Name: TOWN & COUNTRY LAUNDROMAT
Year: 2004
Address: 750 AIRPORT RD

Name: TOWN & COUNTRY LAUNDROMAT
Year: 2005
Address: 750 AIRPORT RD

C14
SSW
1/8-1/4
0.152 mi.
803 ft.

NCDSCA 068-0005 (MIDTOWN SHOPS)
750 MARTIN L KING JR BLVD, STE
CHAPEL HILL, NC 27514

RCRA-SQG 1010323133
NC0991302928

Site 4 of 4 in cluster C

Relative:
Higher

RCRA-SQG:

Date form received by agency: 09/10/2010
Facility name: NCDSCA 068-0005 (MIDTOWN SHOPS)
Facility address: 750 MARTIN L KING JR BLVD, STE
CHAPEL HILL, NC 27514

Actual:
342 ft.

EPA ID: NC0991302928
Mailing address: MAIL SERVICE CTR
RALEIGH, NC 27699

Contact: DIANNE B THOMAS
Contact address: MAIL SERVICE CTR
RALEIGH, NC 27699

Contact country: US
Contact telephone: 919-508-8483

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NCDSCA 068-0005 (MIDTOWN SHOPS) (Continued)

1010323133

Contact email: DIANNE.THOMAS@NCDENR.GOV
EPA Region: 04
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: MIDTOWN SHOPS, LLC
Owner/operator address: CLOISTER COURT, STE 114
CHAPEL HILL, NC 27514

Owner/operator country: US
Owner/operator telephone: 919-508-8483
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1988
Owner/Op end date: Not reported

Owner/operator name: PETITIONER(S) FOR DSCA SITE ID 068-0005
Owner/operator address: MAIL SERVICE CTR
RALEIGH, NC 27699

Owner/operator country: US
Owner/operator telephone: 919-508-8483
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/27/2005
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/01/2010
Facility name: NCDSCA 068-0005 (MIDTOWN SHOPS)
Site name: NCDSCA 068-0005(MIDTOWN SHOPS)
Classification: Large Quantity Generator

Date form received by agency: 02/22/2010
Facility name: NCDSCA 068-0005 (MIDTOWN SHOPS)
Classification: Large Quantity Generator

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

NCDSCA 068-0005 (MIDTOWN SHOPS) (Continued)

1010323133

Date form received by agency: 07/05/2009
 Facility name: NCDSCA 068-0005 (MIDTOWN SHOPS)
 Classification: Large Quantity Generator

Date form received by agency: 08/07/2006
 Facility name: NCDSCA 068-0005 (MIDTOWN SHOPS)
 Classification: Small Quantity Generator

Date form received by agency: 11/10/2005
 Facility name: NCDSCA 068-0005 (MIDTOWN SHOPS)
 Site name: NCDSCA SITE # 68-0005 (MIDTOWN SHOPS)
 Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: F002
 Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

15
 NE
 1/8-1/4
 0.188 mi.
 991 ft.

**WILLIAMS RES UST (ELIZ ET AL)
 32 MT. BOLUS RD
 CHAPEL HILL, NC 27514**

**LUST S110629990
 LUST TRUST N/A**

**Relative:
 Higher**

LUST:
 Facility ID: Not reported
 UST Number: RA-6737
 Incident Number: 33891
 Contamination Type: Soil
 Source Type: Leak-underground
 Product Type: PETROLEUM
 Date Reported: 08/27/2010
 Date Occur: 07/06/2010
 Cleanup: Not reported
 Closure Request: Not reported
 Close Out: 12/13/2010
 Level Of Soil Cleanup Achieved: Soil to Groundwater
 Tank Regulated Status: Non Regulated
 # Of Supply Wells: 0
 Commercial/NonCommercial UST Site: NON COMMERCIAL
 Risk Classification: U
 Risk Class Based On Review: L
 Corrective Action Plan Type: Not reported
 NOV Issue Date: Not reported
 NORR Issue Date: Not reported
 Site Priority: Not reported
 Phase Of LSA Req: Not reported
 Site Risk Reason: Not reported
 Land Use: Residential

**Actual:
 435 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILLIAMS RES UST (ELIZ ET AL) (Continued)

S110629990

MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Cleanups to 2L.0202 standards
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9278 -79.0461
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: Not reported
Contact Person: ELIZABETH WILLIAMS ET AL
Telephone: 9196010369
RP Address: 1321 FOUR WINDS DR
RP City,St,Zip: RALEIGH, NC 27615
RP County: Not reported
Comments: 550 GAL RES UST AND SOIL EXCAVATED 7/6/10. TPH DRO AT 4390 MG/KG AT 6.5 FT. MAX EXCAV DEPTH 13; RESULTS PENDING.////AFTER REMOVING 91 TONS, SOIL > RES MSCC////DRILLED TO 65' AND STOPPED PER INSTRUCTION FROM INCIDENT MGR. NO FP OR GW ENCOUNTERED. AS NO WELLS WITHIN 1000 RADIUS, NFA FOLLOWING PUB NOTICE FOR SOIL AND NRP GW.DMD,9.24.10////NRP for soil & GW. -MRP////PER TELECON WITH ELIZ WILLIAMS, 10-25-10, SHE AND HEIRS INTEND INSTEAD TO TRY DIGGING OUT SO THAT NRP WILL HOPEFULLY NOT BE NECESSARY. MEANWHILE, THEY HAVE INSTRUCTED TERRAQUEST NOT TO FILE THE APPROVED NRP - DMD, 10-25-10////PN COMPLETED.DMD,10-26-10////FOLLOWING ADDITIONAL OVEREXCAVATION OF 60.35 TONSIN OCTOBER 2010, SAMPLES WERE COLLECTED AND ANALYZED BY 8260, 8270 AND VPH/EPH. RESULTS INDICATED NO CONTAMINATION ABOVE STG OR RES MSCCS; THEREFORE, NFA. DMD,12/13/10////
5 Min Quad: Not reported

PIRF:

Facility Id: 33891
Date Occurred: 2010-07-06 00:00:00
Date Reported: 2010-08-27 00:00:00
Description Of Incident: 550 GAL RES UST AND SOIL EXCAVATED 7/6/10. TPH DRO AT 4390 MG/KG AT 6.5 FT. MAX EXCAV DEPTH 13; RESULTS PENDING.
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILLIAMS RES UST (ELIZ ET AL) (Continued)

S110629990

5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: 2010-12-13 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
Site ID: 33891
Site Note: RIF on file. Noncommercial; 100% eligible; \$0 deductible.[CGS 3/3/11]
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

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16
West
1/8-1/4
0.213 mi.
1125 ft.

BRITTON PROPERTY
726 BRADLEY ROAD
CHAPEL HILL, NC

IMD S105149944
LUST N/A
LUST TRUST

Relative:
Higher

IMD:

Actual:
385 ft.

Region: RAL
Facility ID: 23669
Date Occurred: 6/12/2001
Submit Date: 10/29/2001
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Operator: Not reported
Contact Phone: Not reported
Owner Company: CHARLES V. BRITTON
Operator Address: 726 BRADLEY RD.
Operator City: CHAPEL HILL
Oper City, St, Zip: CHAPEL HILL, NC 27516-
Ownership: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRITTON PROPERTY (Continued)

S105149944

Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Residential
Risk Site: L
Site Priority: U
Priority Code: Not reported
Priority Update: 11/1/2001
Dem Contact: JFM
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.92833333
Longitude: -79.0575
Latitude Number: 355542
Longitude Number: 790327
Latitude Decimal: 35.92833333333333
Longitude Decimal: 79.0575
GPS: 7
Agency: DWM
Facility ID: 23669
Last Modified: 10/29/2001
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-3954
Incident Number: 23669
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 08/06/2001
Date Occur: 06/12/2001
Cleanup: 06/12/2001
Closure Request: Not reported
Close Out: 11/05/2002
Level Of Soil Cleanup Achieved: Residential
Tank Regulated Status: Non Regulated

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRITTON PROPERTY (Continued)

S105149944

Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 06/11/2002
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 233
Reel Num: 117
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9286 -79.0577
Testlat: Not reported
Regional Officer Project Mgr: JFM
Region: Raleigh
Company: CHARLES V. BRITTON
Contact Person: Not reported
Telephone: Not reported
RP Address: 726 BRADLEY RD.
RP City,St,Zip: CHAPEL HILL, NC 27516-
RP County: orange
Comments: One 280-gal heating oil UST removed on 6/12/01. Approx 225-gal product removed prior to UST closure. Following closure, 1 soil sample collected for analysis of TPH. Release identified, 20-Day report and 24 Hour notice filed. - CED
5 Min Quad: Not reported

PIRF:

Facility Id: 23669
Date Occurred: 2001-06-12 00:00:00
Date Reported: 2001-10-29 00:00:00
Description Of Incident: SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Owner/Operator: CHARLES V. BRITTON
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: U
Priority Update: 2001-11-01 00:00:00
Wells Affected Y/N: N
Samples Include: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRITTON PROPERTY (Continued)

S105149944

7#5 Minute Quad:	Not reported
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	Not reported
Source:	C
Ust Number:	C
Last Modified:	2001-10-29 00:00:00
Incident Phase:	Closed Out
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

LUST TRUST:

Facility ID:	Not reported
Site ID:	23669
Site Note:	Not reported
Site Eligible?:	True
Commercial Find:	100% Non-Commercial
Priority Rank:	Not reported
Deductable Amount:	0
3rd Party Deductable Amt:	0
Sum 3rd Party Amt Applied:	0

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D17
West
1/8-1/4
0.244 mi.
1289 ft.

RANCER PROPERTY
712 BRADLEY COURT
CHAPEL HILL, NC
Site 1 of 2 in cluster D

IMD **S105149939**
LUST **N/A**
LUST TRUST

Relative:
Higher

IMD:

Actual:
371 ft.

Region:	RAL
Facility ID:	23664
Date Occurred:	5/1/2001
Submit Date:	10/29/2001
GW Contam:	No Groundwater Contamination detected
Soil Contam:	Yes
Incident Desc:	SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Operator:	Not reported
Contact Phone:	Not reported
Owner Company:	VIOLA J. RANCER
Operator Address:	2453 WAYFARER COURT
Operator City:	CHAPEL HILL
Oper City,St,Zip:	CHAPEL HILL, NC 27514-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RANCER PROPERTY (Continued)

S105149939

Ownership: Private
Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Residential
Risk Site: L
Site Priority: U
Priority Code: Not reported
Priority Update: 11/1/2001
Dem Contact: MAF
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.55583333
Longitude: -79.03444444
Latitude Number: 353321
Longitude Number: 790204
Latitude Decimal: 35.55583333333333
Longitude Decimal: 79.03444444444444
GPS: 7
Agency: DWM
Facility ID: 23664
Last Modified: 10/29/2001
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-3949
Incident Number: 23664
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 08/15/2001
Date Occur: 05/01/2001
Cleanup: 05/01/2001
Closure Request: Not reported
Close Out: 08/22/2003
Level Of Soil Cleanup Achieved: Residential

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RANCER PROPERTY (Continued)

S105149939

Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 09/24/2001
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: No
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 233
Reel Num: 116
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.5559 -79.0345
Testlat: Not reported
Regional Officer Project Mgr: MAF
Region: Raleigh
Company: VIOLA J. RANCER
Contact Person: Not reported
Telephone: Not reported
RP Address: 2453 WAYFARER COURT
RP City,St,Zip: CHAPEL HILL, NC 27514-
RP County: Not reported
Comments: 06/13/01 - 20-Day rpt submitted by Cohesion: 1 x 550-gal heating oil
UST. 05/1/01 soil collected adj. to UST at a depth of 6' = > TPH
Action Level. On 05/10/01 UST was removed. Approx. 5.45 tons impacted
soil removed. 5 soil samples collected following r
5 Min Quad: Not reported

PIRF:

Facility Id: 23664
Date Occurred: 2001-05-07 00:00:00
Date Reported: 2001-10-29 00:00:00
Description Of Incident: SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Owner/Operator: VIOLA J. RANCER
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: U
Priority Update: 2001-11-01 00:00:00
Wells Affected Y/N: N

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

RANCER PROPERTY (Continued)

S105149939

Samples Include:	Not reported
7#5 Minute Quad:	Not reported
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	Not reported
Source:	C
Ust Number:	C
Last Modified:	2001-10-29 00:00:00
Incident Phase:	Closed Out
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

LUST TRUST:

Facility ID:	Not reported
Site ID:	23664
Site Note:	Not reported
Site Eligible?:	True
Commercial Find:	100% Non-Commercial
Priority Rank:	Not reported
Deductable Amount:	0
3rd Party Deductable Amt:	0
Sum 3rd Party Amt Applied:	0

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D18
West
1/8-1/4
0.248 mi.
1309 ft.

BAXTER ESTATE PROPERTY
710 BRADLEY RD
CHAPEL HILL, NC 27516
Site 2 of 2 in cluster D

LUST S109367303
LUST TRUST N/A

Relative:
Higher

Actual:
366 ft.

LUST:

Facility ID:	Not reported
UST Number:	RA-6032
Incident Number:	33569
Contamination Type:	Soil
Source Type:	Leak-underground
Product Type:	PETROLEUM
Date Reported:	08/21/2008
Date Occur:	08/21/2008
Cleanup:	Not reported
Closure Request:	Not reported
Close Out:	12/12/2008
Level Of Soil Cleanup Achieved:	Residential

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXTER ESTATE PROPERTY (Continued)

S109367303

Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: 02/20/2009
Release Detection: 0
Current Status: File Located in House
RBCA GW: Cleanups to alternate standards
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9264 -79.0576
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: Joan Baxter Estate
Contact Person: James Baxter, Executor
Telephone: 3155325061
RP Address: 7909 Kreeger Dr, #114
RP City,St,Zip: Adelphi, MD 20783
RP County: Not reported
Comments: 550 GAL RESIDENTIAL HEATING OIL UST AND 50 TONS PETROL-CONTAM SOIL REMOVED BY CEDAR ROCK ENVIRONMENTAL PER UST-61 24-HR RELEASE NOTIF -DMD, 9/8/08////IAA report indicates bedrock encountered and residual soil contam exceeds residential MSCCs. Consultant recommends Low Risk NFA, aband of MW1, soil and gw NRP, and public notice -DMD, 12/12/08.////Public notice receipt copies received for closeout-dmd,3/13/09.///
5 Min Quad: Not reported
PIRF:
Facility Id: 33569
Date Occurred: 2008-08-21 00:00:00
Date Reported: 2008-08-21 00:00:00
Description Of Incident: 550 GAL RESIDENTIAL HEATING OIL UST AND 50 TONS PETROL-CONTAM SOIL REMOVED BY CEDAR ROCK ENVIRONMENTAL PER UST-61 24-HR RELEASE NOTIF -DMD, 9/8/08////
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAXTER ESTATE PROPERTY (Continued)

S109367303

Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: N
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: Not reported
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
Site ID: 33569
Site Note: Noncommercial; 100% eligible; \$0 deductible.[CGS 2/2/09]
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

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19
NW
1/4-1/2
0.253 mi.
1334 ft.

PAGE ESTATE (EDITH)
120 JUSTICE STREET
CHAPEL HILL, NC 27516

LUST S108852030
LUST TRUST N/A

Relative:
Higher

LUST:

Actual:
469 ft.

Facility ID: Not reported
UST Number: RA-5830
Incident Number: 33386
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 10/03/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PAGE ESTATE (EDITH) (Continued)

S108852030

Date Occur: 09/25/2007
Cleanup: Not reported
Closure Request: Not reported
Close Out: 01/08/2008
Level Of Soil Cleanup Achieved: Industrial/Commercial
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: 02/01/2008
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9300 -79.0567
Testlat: Not reported
Regional Officer Project Mgr: CED
Region: Raleigh
Company: Edith Page Estate
Contact Person: James Page (Executor)
Telephone: 9199421568
RP Address: 120 Justice Street
RP City,St,Zip: Chapel Hill, NC 27516
RP County: Not reported
Comments: 09/25/07 - 24-Hour Release Reporting form submitted. - CED ////
10/03/07 - 20-Day rpt submitted by Cedar Rock: Release discovered on
09/25/07 following removal of 550-gal heating oil UST. No Fp. Approx.
18.54 tons impacted soil removed. Soils pending lab data. - CED ////
10/15/07 - Initial Abatement rpt submitted by Cedar Rock: Soils > Res
MSCCs and bedrock encountered. Recommends LSA. - CED /// Source is
UST. 10/17/07 - LSA NORR issued. - CED /// 12/12/07 - LSA submitted:
1inactive WSW within 1000'. No WHP. Bolin Creek ~1250' NE. Low risk.
Bedrock ~9' bls. MW installed to 43' bls, DRY. Recommends NFA with
PN???. Soils > Res MSCCs so NRP Needed- CED /// 12/18/07 - NRP NORR
Issued for soil only. - CED /// 01/08/08 - NRP for soil only
received for signature. NFA Issued with PN. - CED /// 2/6/08 -
Certified copy of NRP received. - CED /// 02/26/08 - PN received. -

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PAGE ESTATE (EDITH) (Continued)

S108852030

5 Min Quad: CED ///
Not reported

PIRF:
Facility Id: 33386
Date Occurred: 2007-09-25 00:00:00
Date Reported: 2007-10-03 00:00:00
Description Of Incident: release discovered following removal of 550-al heating oil UST. Source is UST.
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: Not reported
Ust Number: P

Last Modified: Not reported
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:
Facility ID: Not reported
Site ID: 33386
Site Note: Noncommercial; 100% eligible; \$0 deductible.[CGS 11/26/07]
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E20
SE
1/4-1/2
0.268 mi.
1417 ft.

HUNT, EMORY RESIDENCE
304 LONE PINE ROAD
CHAPEL HILL, NC

IMD S106406522
N/A

Site 1 of 2 in cluster E

Relative:
Higher

IMD:

Actual:
342 ft.

Region: Not reported
Facility ID: 26598
Date Occurred: 3/18/2004
Submit Date: 3/18/2004
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: HEATING OIL RELEASE
Operator: C/O BETH HUNT
Contact Phone: 5413427351
Owner Company: EMORY S. HUNT
Operator Address: 2650 CRESTA DE RUTA STREET
Operator City: EUGENE
Oper City, St, Zip: EUGENE, OR 97403-
Ownership: Private
Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Not reported
Risk Site: L
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: MAF
Wells Affected: Not reported
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.55333333
Longitude: -79.0275
Latitude Number: 353312
Longitude Number: 790139
Latitude Decimal: 35.55333333333333
Longitude Decimal: 79.0275
GPS: 7
Agency: DWM
Facility ID: 26598
Last Modified: 11/19/2004
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HUNT, EMORY RESIDENCE (Continued)

S106406522

RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: Not reported

E21
SE
1/4-1/2
0.268 mi.
1417 ft.

HUNT RESIDENCE (EMORY)
304 LONE PINE RD
CHAPEL HILL, NC
Site 2 of 2 in cluster E

LUST **S106495606**
LUST TRUST **N/A**

Relative:
Higher

LUST:

Actual:
342 ft.

Facility ID: Not reported
 UST Number: RA-5046
 Incident Number: 26598
 Contamination Type: Soil
 Source Type: Leak-underground
 Product Type: PETROLEUM
 Date Reported: 03/18/2004
 Date Occur: 03/18/2004
 Cleanup: Not reported
 Closure Request: Not reported
 Close Out: 11/19/2004
 Level Of Soil Cleanup Achieved: Soil to Groundwater
 Tank Regulated Status: Non Regulated
 # Of Supply Wells: 0
 Commercial/NonCommercial UST Site: NON COMMERCIAL
 Risk Classification: L
 Risk Class Based On Review: L
 Corrective Action Plan Type: Not reported
 NOV Issue Date: Not reported
 NORR Issue Date: Not reported
 Site Priority: Not reported
 Phase Of LSA Req: 1
 Site Risk Reason: Not reported
 Land Use: Residential
 MTBE: No
 MTBE1: No
 Flag: No
 Flag1: No
 LUR Filed: Not reported
 Release Detection: 0
 Current Status: File Located in Archives
 RBCA GW: Cleanups to 2L.0202 standards
 PTOPT: 4
 RPL: False
 CD Num: 264
 Reel Num: 39
 RPOW: False
 RPOP: False
 Error Flag: 0
 Error Code: N
 Valid: False
 Lat/Long Decimal: 35.5534 -79.0275
 Testlat: Not reported
 Regional Officer Project Mgr: MAF
 Region: Raleigh
 Company: EMORY S. HUNT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUNT RESIDENCE (EMORY) (Continued)

S106495606

Contact Person: C/O BETH HUNT
Telephone: 5413427351
RP Address: 2650 CRESTA DE RUTA STREET
RP City,St,Zip: EUGENE, OR 97403-
RP County: Not reported
Comments: 03/18/04 - 24-Hour Reporting Release Reporting Form submitted. - CED
//// 04/07/04 - 20-Day Rpt Submitted by Cedar Rock: Release
discovered on 03/18/04 following removal of 550-gal heating oil UST.
Approx. 26.21 tons impacted soil removed. Soils > Res MSCCs. - CED
//// 05/27/04 - LSA submitted by Cedar Rock: Irrigation well within
300' upgradient. Bolin Creek ~550'. No WHP. MW installed to 50' bls -
dry. Recommends Low risk with SAR. - CED //// 09/10/04 - SAR
submitted by Cedar Rock: Approx. 60 tons impacted soil > Res MSCCs.
remains on-site. Recommends excavation for remediation. - CED ////
11/05/04 - SC Rpt submitted by Cedar Rock: Approx. 22.87 tons
impacted soil removed. Soils <S-GW MSCCs. Recommends NFA. - CED ////
11/19/04 - NFA Issued. - CED ////
5 Min Quad: Not reported

PIRF:

Facility Id: 26598
Date Occurred: 2004-03-18 00:00:00
Date Reported: 2004-03-18 00:00:00
Description Of Incident: HEATING OIL RELEASE
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: Not reported
Samples Include: Not reported
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: C
Ust Number: C

Last Modified: 2004-11-19 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUNT RESIDENCE (EMORY) (Continued)

S106495606

Facility ID: Not reported
Site ID: 26598
Site Note: Not reported
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 100000
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

22
SSE
1/4-1/2
0.361 mi.
1906 ft.

**LAWLER PROPERTY UST
421 HILLSBOROUGH ST
CHAPEL HILL, NC 27514**

**LUST S110629988
LUST TRUST N/A**

**Relative:
Higher**

LUST:

**Actual:
381 ft.**

Facility ID: Not reported
UST Number: RA-6735
Incident Number: 33889
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 08/27/2010
Date Occur: 05/27/2010
Cleanup: 05/27/2010
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LAWLER PROPERTY UST (Continued)

S110629988

Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9193 -79.0518
Testlat: Not reported
Regional Officer Project Mgr: WER
Region: Raleigh
Company: LAWLER DEVELOPMENTAL GRP LLC
Contact Person: LESLIE LAWLER
Telephone: 9194348498
RP Address: 420 WESTWOOD DR
RP City,St,Zip: CHAPEL HILL, NC 27516
RP County: Not reported
Comments: 550 GAL RES HEATING OIL UST AND CONTAMINATED SOIL REMOVED 5/27/10.
TPH DRO AT 16,400 MG/KG DIRECTLY BENEATH TANK. EXCAVATED TO 12 MAX
DEPTH. RESULTS PENDING. DMD,8/30/10 ////excav 33.8 tons soil along
foundation; >stg; lsa reqd. dmd, 1-19-11 ////
5 Min Quad: Not reported

PIRF:

Facility Id: 33889
Date Occurred: 2010-05-27 00:00:00
Date Reported: 2010-08-27 00:00:00
Description Of Incident: 550 GAL RES HEATING OIL UST AND CONTAMINATED SOIL REMOVED 5/27/10.
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LAWLER PROPERTY UST (Continued)

S110629988

Facility ID: Not reported
 Site ID: 33889
 Site Note: Noncommercial; 100% eligible; \$0 deductible.[CGS 6/22/11]
 Site Eligible?: True
 Commercial Find: 100% Non-Commercial
 Priority Rank: Not reported
 Deductable Amount: 0
 3rd Party Deductable Amt: 0
 Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

**F23
 NW
 1/4-1/2
 0.417 mi.
 2204 ft.**

**UNC-CH SERVICE STATION
 109 AIRPORT DRIVE / CB #1800
 CHAPEL HILL, NC 27599
 Site 1 of 2 in cluster F**

**IMD U003092093
 LUST N/A
 LUST TRUST
 UST
 Financial Assurance**

**Relative:
 Higher**

IMD:

**Actual:
 479 ft.**

Region: RAL
 Facility ID: 14054
 Date Occurred: 11/21/1994
 Submit Date: 5/24/1995
 GW Contam: Yes, Groundwater Contamination has been detected
 Soil Contam: No
 Incident Desc: UST FAILED TANK TIGHTNESS TEST. SOIL CONTAM. 751 PPM OF TPH.
 Operator: ROBERT WALTON
 Contact Phone: 919-962-6666
 Owner Company: UNIVERSITY OF NORTH CAROLINA
 Operator Address: 212 FINLEY GOLF COURSE RD
 Operator City: CHAPEL HILL
 Oper City,St,Zip: CHAPEL HILL, NC 27514-
 Ownership: State
 Operation: Educational/Religious
 Material: GASOLINE
 Qty Lost 1: Not reported
 Qty Recovered 1: Not reported
 Source: Leak-underground
 Type: Gasoline/diesel
 Location: Facility
 Setting: Urban
 Risk Site: I
 Site Priority: 20E
 Priority Code: L
 Priority Update: 4/16/1998
 Dem Contact: MAF
 Wells Affected: No
 Num Affected: 0
 Wells Contam: Not reported
 Sampled By: Responsible Parties
 Samples Include: Soil Samples
 7.5 Min Quad: Not reported
 5 Min Quad: I44X
 Latitude: 35.9325
 Longitude: -79.05861111
 Latitude Number: 355557
 Longitude Number: 790331

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC-CH SERVICE STATION (Continued)

U003092093

Latitude Decimal: 35.9325
Longitude Decimal: 79.05861111111111
GPS: NOD
Agency: DWM
Facility ID: 14054
Last Modified: Not reported
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: 00-0-000
UST Number: RA-2216
Incident Number: 14054
Contamination Type: Groundwater/Both
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 11/21/1994
Date Occur: 11/21/1994
Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: I
Risk Class Based On Review: I
Corrective Action Plan Type: NT
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 20E
Phase Of LSA Req: Not reported
Site Risk Reason: FG
Land Use: Not reported
MTBE: No
MTBE1: Yes
Flag: Yes
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: Not reported
Reel Num: Not reported
RPOW: False

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC-CH SERVICE STATION (Continued)

U003092093

RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.5557 -79.0331
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: UNC ENVIRON, HEALTH & SAFETY
Contact Person: LARRY DAW
Telephone: 919-962-6666
RP Address: 1120 ESTES DRIVE EXTENSION
RP City,St,Zip: CHAPEL HILL, NC 275991650
RP County: Not reported
Comments: 05/13/2002 - review of most recent Monitoring Report, dated, 9/2001 indicates a CAP was submitted in 1996 and since then 5 Natural Attenuation Monitoring Reports have been submitted; In the most recent event (9/2001) 2L levels were exceeded in GW; TW1 & 2 exceeded GCL's; Trend thusfar is a decrease in overall contaminant levels, but, increase in benzene & MTBE levels; Also, MW7 is showing contam's and hasn't in the past; Plume extends 250' to NE; No Free Product; GW flow is to the NE; Consultant recommendations are to proceed with N.A. Monitoring and FP checks; No receptors; Contaminant type- Gas; -MAZ 8/5/2002 - MR review . . . TW1 & 2 contained FP (.5', 1.75'); MW2 & TW3 was > 2L; FP recovery socks were placed in TW1 & 2; Consultant suggests Mobile Multi-phase Extraction (MMPE) or AFVR to address FP; Once FP is eliminated site can be lowered to Low risk and possibly closed out; -MAZ 5/2003 - MR Review (event 6/24/2003) - MW2-7 & TW1-3 were sampled; sample methods used- 602; No FP in any wells this event; MW2, 3, TW2, 3 > 2L; Only one constituent in 1 well is > GCL - - - TW2 benzene is 5700 ppb (2L - 5000 ppb); Continue with Natural Attenuation; -MAF 5/19/2005 - MW abandonment report rec'd for MW4; -MAF ///RE-SENDING FPR NORR TO LARRY DAW AT NEW ADDRESS (HB 2498)-DMD,12.1.09////Sent Resume Funding NORR for Intermediate Risk Sites, DMD, 9.1.10////
5 Min Quad: I44x

PIRF:

Facility Id: 14054
Date Occurred: 1994-11-21 00:00:00
Date Reported: 1995-05-24 00:00:00
Description Of Incident: UST FAILED TANK TIGHTNESS TEST. SOIL CONTAM. 751 PPM OF TPH.
Owner/Operator: ROBERT WALTON
Ownership: 7
Operation Type: 4
Type: 3
Location: 1
Site Priority: 20E
Priority Update: 1998-04-16 00:00:00
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 3
5 Minute Quad: 2
Pirf/Min Soil: Not reported
Release Code: I44X
Source Code: Pirf
Err Type: Not reported
Cause: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC-CH SERVICE STATION (Continued)

U003092093

Source: Not reported
Ust Number: Not reported

Last Modified: Not reported
Incident Phase: Response
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: 0-002149
Site ID: 14054
Site Note: Not reported
Site Eligible?: True
Commercial Find: 100% Commercial
Priority Rank: Low
Deductable Amount: 20000
3rd Party Deductable Amt: 100000
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

UST:

Facility Id: 00-0-0000034543
Contact: UNIVERSITY OF NC AT CHAPEL HILL
Contact Address1: 1120 ESTES DR/EXTENSION CB 1650
Contact Address2: Not reported
Contact City/State/Zip: CHAPEL HILL, NC 27599-1650
FIPS County Desc: Orange
Latitude: 35.93238
Longitude: -79.05804

Tank Id: 1
Tank Status: Current
Installed Date: 01/04/1996
Perm Close Date: Not reported
Product Key: 3
Product Name: Gasoline, Gas Mix
Tank Capacity: 10000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel/FRP
Piping Construction: Single Wall FRP
Piping System Key: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC-CH SERVICE STATION (Continued)

U003092093

Other CP Tank: Not reported

Tank Id: 2
Tank Status: Current
Installed Date: 01/02/1996
Perm Close Date: Not reported
Product Key: 14
Product Name: Oil, New/Used/Mix
Tank Capacity: 550
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel/FRP
Piping Construction: SW Flexible Piping
Piping System Key: Unknown
Other CP Tank: Not reported

NC Financial Assurance 1:
Facility ID: 0-034543
Region: 1
Financial Responsibility Code: Not reported
Financial Responsibility Desc: STATE FUND

**F24
NW
1/4-1/2
0.427 mi.
2253 ft.**

**UNC GILES F. HORNEY BUILDING
103 AIRPORT DRIVE
CHAPEL HILL, NC 27516**

**LUST S108493142
N/A**

Site 2 of 2 in cluster F

**Relative:
Higher**

LUST:
Facility ID: 00-0-000
UST Number: RA-5730
Incident Number: 33255
Contamination Type: Groundwater/Both
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 09/27/2006
Date Occur: 09/26/2006
Cleanup: 09/26/2006
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Not reported

**Actual:
482 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC GILES F. HORNEY BUILDING (Continued)

S108493142

Land Use: Residential
MTBE: No
MTBE1: Yes
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9324 -79.0582
Testlat: Not reported
Regional Officer Project Mgr: CED
Region: Raleigh
Company: UNC Chapel Hill
Contact Person: J. Laurence Daw
Telephone: 9199626666
RP Address: 1120 Estes Drive Extension
RP City,St,Zip: Chapel Hill, NC 275991650
RP County: Not reported

Comments: 12/20/06 - UST Clo rpt submitted by Terraquest: Release discovered on 09/26/06 following removal of 10K heating oil UST. UST was replaced with 4K Heating oil AST. GW flow to N. Soils > TPH. Approx. 30.88 tons impacted soil. UST located on concrete slab. Soil samples on southern edge > S-GW MSCCs and MADEP > Res MSCCs. Recommends LSA. - CED //// 02/08/08 - LSA submitted by Terraquest: No WSW, no SWB, no WHP. Low risk classification. MW installed to 26' bls. No soil collected from boring. DTW=22.43' bls. GW > 2L (benz, PCE, Aromatics). MTBE detected < 2L. Benz and MTBE could be identified from gas release ~150' SW from Inc #14054. Recommends reclassification from Res to Ind/Comm and NFA. - CED ////

5 Min Quad: Not reported

PIRF:

Facility Id: 33255
Date Occurred: 2006-09-26 00:00:00
Date Reported: 2006-12-20 00:00:00
Description Of Incident: Release discovered following removal of 10,000-gal heating oil UST on 09/26/06.
Owner/Operator: Not reported
Ownership: 4
Operation Type: 6
Type: 4
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: n
Samples Include: Not reported
7#5 Minute Quad: y
5 Minute Quad: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

UNC GILES F. HORNEY BUILDING (Continued)

S108493142

Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	Not reported
Source:	Not reported
Ust Number:	P
Last Modified:	Not reported
Incident Phase:	Not reported
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

G25
NNW
 1/4-1/2
 0.463 mi.
 2443 ft.

CHAPEL HILL TRANSIT
MUNICIPAL DR.
CHAPEL HILL, NC
Site 1 of 6 in cluster G

IMD S106896240
LUST N/A

Relative:
Higher

IMD:

Actual:
458 ft.

Region:	RAL
Facility ID:	4005
Date Occurred:	8/3/1992
Submit Date:	2/8/1989
GW Contam:	No Groundwater Contamination detected
Soil Contam:	Yes
Incident Desc:	WASTE OIL TANK WAS TAKING ON WATER, AND DURING EXCAVATION TO PULL FILL PIPE CONTAM. SOIL WAS DISCOVERED.
Operator:	DONALD WELLS
Contact Phone:	Not reported
Owner Company:	CHAPEL HILL TRANSIT MAINT. FAC
Operator Address:	MUNICIPAL DR.
Operator City:	CHAPEL HILL
Oper City,St,Zip:	CHAPEL HILL, NC 27516-
Ownership:	Municipal
Operation:	Commercial
Material:	WASTE OIL
Qty Lost 1:	Not reported
Qty Recovered 1:	UNK
Source:	Leak-underground
Type:	Gasoline/diesel
Location:	Facility
Setting:	Urban
Risk Site:	L
Site Priority:	50
Priority Code:	Not reported
Priority Update:	Not reported
Dem Contact:	MAF
Wells Affected:	No
Num Affected:	0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHAPEL HILL TRANSIT (Continued)

S106896240

Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.93805555
Longitude: -79.05666666
Latitude Number: 355617
Longitude Number: 790324
Latitude Decimal: 35.9380555555556
Longitude Decimal: 79.0566666666667
GPS: 7
Agency: DWM
Facility ID: 4005
Last Modified: Not reported
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-636
Incident Number: 4005
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 11/12/1992
Date Occur: 08/03/1992
Cleanup: 01/20/1989
Closure Request: Not reported
Close Out: 05/17/2005
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 50
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHAPEL HILL TRANSIT (Continued)

S106896240

LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 5
RPL: False
CD Num: 306
Reel Num: 198
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9380 -79.0566
Testlat: Not reported
Regional Officer Project Mgr: MAF
Region: Raleigh
Company: CHAPEL HILL TRANSIT MAINT. FAC
Contact Person: DONALD WELLS
Telephone: Not reported
RP Address: MUNICIPAL DR.
RP City,St,Zip: CHAPEL HILL, NC 27516-
RP County: Not reported
Comments: WASTE OIL TANK WAS TAKING ON WATER, AND DURING EXCAVATION TO PULL
FILL PIPE CONTAM. SOIL WAS DISCOVERED.
5 Min Quad: Not reported

PIRF:

Facility Id: 4005
Date Occurred: 1989-01-20 00:00:00
Date Reported: 1989-02-08 00:00:00
Description Of Incident: WASTE OIL TANK WAS TAKING ON WATER, AND DURING EXCAVATION TO PULL FILL
PIPE CONTAM. SOIL WAS DISCOVERED.
Owner/Operator: CHAPEL HILL TRANSIT
Ownership: 1
Operation Type: 6
Type: 5
Location: 1
Site Priority: 50
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Pirf
Err Type: Not reported
Cause: Not reported
Source: Not reported
Ust Number: Not reported

Last Modified: Not reported
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHAPEL HILL TRANSIT (Continued)

S106896240

Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

26
ESE
1/4-1/2
0.467 mi.
2464 ft.

**HANSEN REVOCABLE TRUST PROPERTY
357 TENNEY CIRCLE
CHAPEL HILL, NC**

**LUST S109836986
LUST TRUST N/A**

**Relative:
Higher**

LUST:

**Actual:
439 ft.**

Facility ID: Not reported
UST Number: RA-6125
Incident Number: 33666
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 05/07/2009
Date Occur: 05/07/2009
Cleanup: Not reported
Closure Request: Not reported
Close Out: 06/23/2009
Level Of Soil Cleanup Achieved: Industrial/Commercial
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: H
Risk Class Based On Review: H
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: 06/30/2009
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9208 -79.0430
Testlat: Not reported
Regional Officer Project Mgr: DMD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HANSEN REVOCABLE TRUST PROPERTY (Continued)

S109836986

Region: Raleigh
Company: NANCY HANSEN REVOCABLE TRUST
Contact Person: NANCY HANSEN
Telephone: 7043078102
RP Address: 2412 HOUSTON BRANCH RD
RP City,St,Zip: CHARLOTTE, NC 28270
RP County: Not reported
Comments: Removed 550 gal residential heating oil UST and 28.49 tons contaminated soil on 5/7/09. Observed physical evidence of oil release. Collected soil samples. Results pending--- DMD,6/3/09.//// IAR indicated samples collected following tank and contaminated soil removal exceeded S-T-G and residential MSCCs in two of five sample locations (pit center and east wall nearest house). Excavation reached a depth of 11.5 ft bls. No petroleum free product or groundwater was encountered. LSA is to be conducted as required due to contaminant levels--- DMD,6/3/09.////MW1 DRILLED TO 40' BLS: GW NOT ENCOUNTERED AND NO CONTAM IN 20' AND 30' SOIL SAMPLES; ALSO, NEAREST WELL IS 950' AWAY; THEREFORE, RECOMMENDING NFA-DMD,6/17/09
5 Min Quad: Not reported
PIRF:
Facility Id: 33666
Date Occurred: 2009-05-07 00:00:00
Date Reported: 2009-05-07 00:00:00
Description Of Incident: 550 GAL RESIDENTIAL HEATING OIL TANK RELEASE
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: Not reported
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HANSEN REVOCABLE TRUST PROPERTY (Continued)

S109836986

LUST TRUST:

Facility ID: Not reported
 Site ID: 33666
 Site Note: Noncommercial; \$5,000 deductible; eligible for reimbursement of 90% of costs that exceed the \$5,000 deductible.[CGS 8/31/09]
 Site Eligible?: True
 Commercial Find: 100% Non-Commercial
 Priority Rank: Not reported
 Deductable Amount: 5000
 3rd Party Deductable Amt: 0
 Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

**G27
 NNW
 1/4-1/2
 0.473 mi.
 2500 ft.**

**CHAPEL HILL TRANSIT GARAGE HYD
 1089 MARTIN LUTHER KING JR BL
 CHAPEL HILL, NC 27514**

**LAST S110629340
 N/A**

Site 2 of 6 in cluster G

**Relative:
 Higher**

LAST:

Facility ID: Not reported
 UST Number: RA-92020
 Incident Number: 92020
 Contamination Type: SL
 Source Type: 14
 Product Type: P
 Date Reported: 10/23/2007
 Date Occur: 07/30/2007
 Cleanup: Not reported
 Closure Request: Not reported
 Close Out: 10/24/2007
 Level Of Soil Cleanup Achieved: S3
 Tank Regulated Status: R
 # Of Supply Wells: 0
 Commercial/NonCommercial UST Site: C
 Risk Classification: L
 Risk Class Based On Review: L
 Corrective Action Plan Type: Not reported
 NOV Issue Date: Not reported
 NORR Issue Date: Not reported
 Site Priority: Not reported
 Phase Of LSA Req: Not reported
 Site Risk Reason: Not reported
 Land Use: Not reported
 MTBE: No
 MTBE1: No
 Flag: No
 Flag1: No
 LUR Filed: Not reported
 Release Detection: 0
 Current Status: C
 RBCA GW: Not reported
 PETOPT: 3
 RPL: False
 CD Num: 0

**Actual:
 458 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHAPEL HILL TRANSIT GARAGE HYD (Continued)

S110629340

Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long: 35 56 79 3 3
Lat/Long Decimal: 35.93763 79.059533
Testlat: Not reported
Regional Officer Project Mgr: JFM
Region: RAL
Company: Town of Chapel Hill
Contact Person: JOHN NEWARK
Telephone: 9196129561
RP Address: 405 MARTIN LUTHER KING JR BLVD
RP City,St,Zip: Chapel Hill, NC 27514
RP County: Not reported
Comments: Hydraulic Lift removed, Post excavation samples < action levels.
10/24/2007, JFM///
5 Min Quad: Not reported

PIRF:

Facility Id: 92020
Date Occurred: 7/30/2007
Date Reported: 10/24/2007
Description Of Incident: Hydraulic Lift removed, Post excavation samples < action levels.
10/24/2007, JFM///
Owner/Operator: Not reported
Ownership: 1
Operation Type: 3
Type: 5
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 9
Cause: Not reported
Source: Not reported
Ust Number: B

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

G28
NNW
1/4-1/2
0.473 mi.
2500 ft.

TOWN OF CHAPEL HILL TRANSIT GARAGE
1089 MARTIN LUTHER KING BLVD
CHAPEL HILL, NC 27515

LUST **S110629979**
N/A

Site 3 of 6 in cluster G

Relative:
Higher

LUST:

Actual:
458 ft.

Facility ID:	00-0-000
UST Number:	RA-5834
Incident Number:	33389
Contamination Type:	Groundwater/Both
Source Type:	Leak-underground
Product Type:	PETROLEUM
Date Reported:	10/23/2007
Date Occur:	08/25/2007
Cleanup:	08/25/2007
Closure Request:	Not reported
Close Out:	Not reported
Level Of Soil Cleanup Achieved:	Not reported
Tank Regulated Status:	Regulated
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	COMMERCIAL
Risk Classification:	L
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
NORR Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	1
Site Risk Reason:	Not reported
Land Use:	Residential
MTBE:	No
MTBE1:	Yes
Flag:	Yes
Flag1:	No
LUR Filed:	Not reported
Release Detection:	0
Current Status:	File Located in House
RBCA GW:	Not reported
PETOPT:	3
RPL:	False
CD Num:	0
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	N
Valid:	False
Lat/Long Decimal:	35.9376 -79.0595
Testlat:	Not reported
Regional Officer Project Mgr:	DMD
Region:	Raleigh
Company:	Town of Chapel Hill
Contact Person:	JOHN NEWARK
Telephone:	9196129561
RP Address:	405 MLK Jr Blvd
RP City,St,Zip:	Chapel Hill, NC 27514
RP County:	Not reported
Comments:	One (01) 20K-gallon diesel, one(01) 10K-gallon gasoline and one (01)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TOWN OF CHAPEL HILL TRANSIT GARAGE (Continued)

S110629979

1K-gallon oil/water separator removed. 10/24/2007, JFM/// Low risk site had FP in MW7, but none in nearby surrounding wells MW9,10,and 11. In response removed 169 tons soil to bedrock at and around location of MW7. One sidewall sample was contaminated at a level above the stg but below the res msc. While there are other contaminated areas at this site under various different incident #s (former ust bas), in order to close the hydraulic lift area, gw analyses from MW9, 10, 11 must first be provided. DMD, 2-6-12 /// Not reported

5 Min Quad:

PIRF:

Facility Id: 33389
Date Occurred: 2007-08-25 00:00:00
Date Reported: 2007-10-24 00:00:00
Description Of Incident: UST Initial Abatement Action Report. 10/24/2007, JFM///
Owner/Operator: Not reported
Ownership: 6
Operation Type: 1
Type: 3
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Facility ID: Not reported
UST Number: RA-6723
Incident Number: 33879
Contamination Type: Groundwater/Both
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 07/28/2010
Date Occur: 08/29/2009
Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TOWN OF CHAPEL HILL TRANSIT GARAGE (Continued)

S110629979

Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: U
Risk Class Based On Review: I
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Free product
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 5
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9376 -79.0595
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: CHAPEL HILL PUBLIC WORKS
Contact Person: FORREST HEATH
Telephone: 9196146256
RP Address: 6850 MILLHOUSE RD
RP City,St,Zip: CHAPEL HILL, NC 27515
RP County: Not reported
Comments: ALTHOUGH 2007 IAAR FOR FORMER HYDRAULIC LIFT SYSTEM INDICATES NO SOIL CONTAMINATION ABOVE STG MSCCS, >8000 PPM TPH DRO WAS REPORTED, AND SUBSEQUENT WELL INSTALLATION IN AUG 2009 CONFIRMED FP ACCORDING TO PROPERTY OWNER, UNC-CH.-DMD,8/2/10////
5 Min Quad: Not reported

PIRF:
Facility Id: 33879
Date Occurred: 2009-08-29 00:00:00
Date Reported: 2010-07-28 00:00:00
Description Of Incident: HYDRAULIC LIFT LEAK RESULTED IN FP
Owner/Operator: Not reported
Ownership: 7
Operation Type: 1
Type: 5
Location: 1
Site Priority: Not reported
Priority Update: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TOWN OF CHAPEL HILL TRANSIT GARAGE (Continued)

S110629979

Wells Affected Y/N: Not reported
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 1
Source: F
Ust Number: P

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

G29
NNW
1/4-1/2
0.473 mi.
2500 ft.

CHAPEL HILL,TOWN OF,TRANSPORTA
1089 AIRPORT ROAD
CHAPEL HILL, NC
Site 4 of 6 in cluster G

IMD S106195935
N/A

Relative:
Higher

IMD:

Actual:
458 ft.

Region: RAL
Facility ID: 8228
Date Occurred: Not reported
Submit Date: 6/16/1992
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: CONTAMINATION FOUND DURING UST REMOVAL
Operator: Not reported
Contact Phone: Not reported
Owner Company: TOWN OF CHAPEL HILL
Operator Address:306 N COLUMBIA ST
Operator City: CHAPEL HILL
Oper City,St,Zip: CHAPEL HILL, NC 27517-
Ownership: Municipal
Operation: Not reported
Material: USED OIL
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Facility
Setting: Urban
Risk Site: L
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHAPEL HILL, TOWN OF, TRANSPORTA (Continued)

S106195935

Dem Contact: MAF
Wells Affected: Not reported
Num Affected: 0
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: Not reported
Longitude: Not reported
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: NOD
Agency: DWM
Facility ID: 8228
Last Modified: 3/9/1999
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 6/5/1992

30
West
1/4-1/2
0.483 mi.
2549 ft.

SPRUYT, JUNE S. - RESIDENCE
265 SEVERIN STREET
CHAPEL HILL, NC 27517

IMD S105548354
LUST N/A
LUST TRUST

Relative:
Higher

IMD:

Actual:
439 ft.

Region: RAL
Facility ID: 24475
Date Occurred: 3/25/2002
Submit Date: 8/1/2002
GW Contam: Not reported
Soil Contam: Yes
Incident Desc: ONE 550 GALLON HEATING OIL UST REMOVED. SOIL CONTAMINATION DETECTED IN SAMPLES COLLECTED AT CLOSURE. 102 MG/KG C9-C22 AROMATICS IN SAMPLE "B1"
Operator: JUNE S. & DIRK SPRUYT
Contact Phone: 919-967-4746
Owner Company: Not reported
Operator Address: 98 MAXWELL RD.
Operator City: CHAPEL HILL
Oper City, St, Zip: CHAPEL HILL, NC 27517
Ownership: Private
Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPRUYT, JUNE S. - RESIDENCE (Continued)

S105548354

Source: Leak-underground
Type: Heating Oil
Location: Residence
Setting: Residential
Risk Site: Not reported
Site Priority: U
Priority Code: Not reported
Priority Update: 8/1/2002
Dem Contact: Not reported
Wells Affected: Not reported
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: Not reported
Longitude: Not reported
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: NOD
Agency: DWM
Facility ID: 24475
Last Modified: 8/1/2002
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Region: RAL
Facility ID: 26021
Date Occurred: 3/25/2002
Submit Date: 7/22/2002
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: Not reported
Operator: Not reported
Contact Phone: 919/967-4746
Owner Company: DIRK & JUNE S. SPRUYT
Operator Address: 98 MAXWELL RD.
Operator City: CHAPEL HILL
Oper City, St, Zip: CHAPEL HILL, NC 27517-
Ownership: Private
Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPRUYT, JUNE S. - RESIDENCE (Continued)

S105548354

Source: Leak-underground
Type: Gasoline/diesel
Location: Residence
Setting: Not reported
Risk Site: L
Site Priority: Not reported
Priority Code: L
Priority Update: Not reported
Dem Contact: JFM
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Dept. of Env. Management
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.92611111
Longitude: -79.06305555
Latitude Number: 355534
Longitude Number: 790347
Latitude Decimal: 35.92611111111111
Longitude Decimal: 79.06305555555556
GPS: 7
Agency: DWM
Facility ID: 26021
Last Modified: 9/26/2002
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-160
Incident Number: 26021
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 07/22/2002
Date Occur: 03/25/2002
Cleanup: 03/25/2002
Closure Request: Not reported
Close Out: 09/26/2002
Level Of Soil Cleanup Achieved: Residential
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPRUYT, JUNE S. - RESIDENCE (Continued)

S105548354

Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 07/30/2002
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: No
Flag: Yes
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Cleanups to 2L.0202 standards
PETOPT: 4
RPL: False
CD Num: 233
Reel Num: 116
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9263 -79.0633
Testlat: Not reported
Regional Officer Project Mgr: JFM
Region: Raleigh
Company: DIRK & JUNE S. SPRUYT
Contact Person: Not reported
Telephone: 919/967-4746
RP Address: 98 MAXWELL RD.
RP City,St,Zip: CHAPEL HILL, NC 27517-
RP County: orange
Comments: 07/18/02 - 20 Day rpt submitted by Terraquest: Release discovered following removal of a 550-gal heating oil UST on 03/25/02. UST was taken out of service in 1986 when 280-gal heating oil AST installed. AST removed in 1994. Approx. 103.03 tons impacted s
5 Min Quad: Not reported

PIRF:

Facility Id: 26021
Date Occurred: 2002-03-25 00:00:00
Date Reported: 2002-07-22 00:00:00
Description Of Incident: Not reported
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: 1
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SPRUYT, JUNE S. - RESIDENCE (Continued)

S105548354

Source Code: Not reported
 Err Type: 2
 Cause: Not reported
 Source: C
 Ust Number: C

Last Modified: 2002-09-26 00:00:00
Incident Phase: Closed Out
 NOV Issued: Not reported
 NORR Issued: Not reported
 45 Day Report: Not reported
 Public Meeting Held: Not reported
 Corrective Action Planned: Not reported
 SOC Signed: Not reported
 Reclassification Report: Not reported
 RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
 Site ID: 26021
 Site Note: Not reported
 Site Eligible?: True
 Commercial Find: 100% Non-Commercial
 Priority Rank: Not reported
 Deductable Amount: 0
 3rd Party Deductable Amt: 0
 Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

31
 SSE
 1/4-1/2
 0.485 mi.
 2560 ft.

**FLEMING RESIDENTIAL UST
 518 NORTH ST
 CHAPEL HILL, NC 27514**

**LUST S111161288
 LUST TRUST N/A**

**Relative:
 Higher**

LUST:

**Actual:
 454 ft.**

Facility ID: Not reported
 UST Number: RA-6890
 Incident Number: 39034
 Contamination Type: Soil
 Source Type: Leak-underground
 Product Type: PETROLEUM
 Date Reported: 06/09/2011
 Date Occur: 06/08/2011
 Cleanup: Not reported
 Closure Request: Not reported
 Close Out: 09/28/2011
 Level Of Soil Cleanup Achieved: Industrial/Commercial
 Tank Regulated Status: Non Regulated
 # Of Supply Wells: 0
 Commercial/NonCommercial UST Site: NON COMMERCIAL
 Risk Classification: U
 Risk Class Based On Review: L

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLEMING RESIDENTIAL UST (Continued)

S111161288

Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: Yes
Flag1: No
LUR Filed: 10/04/2011
Release Detection: 0
Current Status: File Located in House
RBCA GW: Cleanups to alternate standards
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9185 -79.0475
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: Not reported
Contact Person: CRESWELL FLEMING, JR REV TRUST
Telephone: 9703752404
RP Address: PO BOX 2423
RP City,St,Zip: DURANGO, CO 81302
RP County: Not reported
Comments: CONTAMINATION WAS DISCOVERED DURING REMOVAL OF A 550 GAL HEATING OIL UST AND APPROX 30 TONS SOIL ON 6/8/11. ///SOIL > RES MSCC; LSA REQUIRED.//// Soil > res msc; gw >GCLs; therefore, intermediate risk. Although consultant suspects "another source," (not identified in report), well log indicates "strong petroleum odor/soil discolored green" from base of excavation (16') to total well depth (30'). In addition, highest soil contam levels were at base of excavation. Combination of physical indicators and analyses supports that gw contam is not from an off site source. Contam levels are too high to close site. Sending stop-funding NORR. DMD, 8-15-11 /// DMD site visit today. DMD, 8.26.11 /// Re-sampled well and BTEX/other compounds were orders of magnitude lower than initial sample. Based on data and only slight 2L exceedances, consultant recommends reducing risk to Low and closing site with soil and gw NRP. Rescind stop-funding NORR. DMD, 9.16.11 /// Soil & GW NRP. -MRP//Prep NFA for MRP'S signature. DMD, 9-28-11 /// NRP filed 10/04/11 on pp 295-300 of Book RB5232. -MRP//recvd pn receipts.dmd.11.9.11
5 Min Quad: Not reported
PIRF:
Facility Id: 39034
Date Occurred: 2011-06-08 00:00:00
Date Reported: 2011-06-09 00:00:00
Description Of Incident: CONTAMINATION WAS DISCOVERED DURING REMOVAL OF A 550 GAL HEATING OIL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FLEMING RESIDENTIAL UST (Continued)

S111161288

UST AND APPROX 30 TONS SOIL ON 6/8/11.
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: 2011-09-28 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
Site ID: 39034
Site Note: RIF on file. Noncommercial; 100% eligible; \$0 deductible. Track this as a site that would have been 5K + 10% as this is receiving 100% because of Session Law 2010-154. [CGS 1/5/12]
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

G32
NNW
1/4-1/2
0.486 mi.
2564 ft.

TOWN OF CHAPEL HILL PUBLIC WOR
1099 AIRPORT ROAD
CHAPEL HILL, NC

IMD S106074804
N/A

Site 5 of 6 in cluster G

Relative:
Higher

IMD:

Actual:
458 ft.

Region: RAL
Facility ID: 26371
Date Occurred: 6/2/2003
Submit Date: 9/8/2003
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: One (1) 550-gallon Waste oil UST
Operator: BRADY MOORE
Contact Phone: 9199682800
Owner Company: TOWN OF CHAPEL HILL PUBLIC WOR
Operator Address: 1099 AIRPORT ROAD
Operator City: CHAPEL HILL
Oper City, St, Zip: CHAPEL HILL, NC 27516-
Ownership: Municipal
Operation: Public Service
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Facility
Setting: Not reported
Risk Site: L
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: JFM
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Dept. of Health Services
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.93861111
Longitude: -79.0575
Latitude Number: 355619
Longitude Number: 790327
Latitude Decimal: 35.93861111111111
Longitude Decimal: 79.0575
GPS: 7
Agency: DWM
Facility ID: 26371
Last Modified: 9/15/2003
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TOWN OF CHAPEL HILL PUBLIC WOR (Continued)

S106074804

RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

G33 PUBLIC WORKS GARAGE
NNW 1099 AIRPORT RD
1/4-1/2 CHAPEL HILL, NC 27514
0.486 mi.
2564 ft.

IMD U001438129
LUST N/A
LUST TRUST
UST

Relative:
Higher

IMD:

Actual:
458 ft.

Site 6 of 6 in cluster G

Region: RAL
Facility ID: 22669
Date Occurred: 3/24/1998
Submit Date: 1/4/2001
GW Contam: Yes, Groundwater Contamination has been detected
Soil Contam: No
Incident Desc: SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Operator: BRADY MOORE
Contact Phone: 9199682800
Owner Company: TOWN OF CHAPEL HILL
Operator Address: 306 N. COLOMBIA STREET
Operator City: CHAPEL HILL
Oper City,St,Zip: CHAPEL HILL, NC 27516-
Ownership: Municipal
Operation: Public Service
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Facility
Setting: Industrial
Risk Site: L
Site Priority: U
Priority Code: Not reported
Priority Update: 1/4/2001
Dem Contact: JFM
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.93861111
Longitude: -79.05805555
Latitude Number: 355619
Longitude Number: 790329
Latitude Decimal: 35.93861111111111
Longitude Decimal: 79.05805555555556
GPS: 6
Agency: DWM
Facility ID: 22669
Last Modified: 12/29/2000
Incident Phase: Closed Out
NOV Issued: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: 00-0-000
UST Number: RA-3694
Incident Number: 22669
Contamination Type: Groundwater/Both
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 04/24/1998
Date Occur: 03/24/1998
Cleanup: 03/24/1998
Closure Request: Not reported
Close Out: 08/26/2003
Level Of Soil Cleanup Achieved: Soil to Groundwater
Tank Regulated Status: Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 01/21/2001
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Yes
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Cleanups to 2L.0202 standards
PETOPT: 3
RPL: False
CD Num: 234
Reel Num: 118
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9388 -79.0583
Testlat: Not reported
Regional Officer Project Mgr: JFM
Region: Raleigh

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

Company: TOWN OF CHAPEL HILL
Contact Person: BRADY MOORE
Telephone: 9199682800
RP Address: 306 N. COLOMBIA STREET
RP City,St,Zip: CHAPEL HILL, NC 27516-
RP County: ORANGE
Comments: 03/24/98 - Release discovered from closure of 1 x 8000-gal diesel UST, and 2 x 10000-gal gas USTs. Soil > SGW and Res. MSCCs. Approx 900 tons impacted soil removed from site - Recommend LSA. CED 01/21/01 - NORR requesting LSA following pull.
5 Min Quad: Not reported

PIRF:

Facility Id: 22669
Date Occurred: 1998-03-24 00:00:00
Date Reported: 2001-01-04 00:00:00
Description Of Incident: SOIL CONTAMINATION DISCOVERED DURING UST REMOVAL
Owner/Operator: PAUL HARVEL
Ownership: 1
Operation Type: 1
Type: 3
Location: 1
Site Priority: U
Priority Update: 2001-01-04 00:00:00
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 7
Source: G
Ust Number: P

Last Modified: 2000-12-29 00:00:00

Incident Phase: Closed Out

NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Facility ID: 00-0-000
UST Number: RA-4674
Incident Number: 26371
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 09/08/2003
Date Occur: 06/02/2003
Cleanup: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

Closure Request: Not reported
Close Out: 09/15/2003
Level Of Soil Cleanup Achieved: Residential
Tank Regulated Status: Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 5
RPL: False
CD Num: 233
Reel Num: 116
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9388 -79.0577
Testlat: Not reported
Regional Officer Project Mgr: JFM
Region: Raleigh
Company: TOWN OF CHAPEL HILL PUBLIC WOR
Contact Person: BRADY MOORE
Telephone: 9199682800
RP Address: 1099 AIRPORT ROAD
RP City,St,Zip: CHAPEL HILL, NC 27516-
RP County: Not reported
Comments: 09/03/03 - Tank Closure rpt submitted by Quantum: Release discovered following soil assessment surrounding a 550-gal waste oil UST which was installed on 03/15/79. Soil samples < Residential MSCCs. - Requested NFA - CED ////
5 Min Quad: Not reported

PIRF:

Facility Id: 26371
Date Occurred: 2003-06-02 00:00:00
Date Reported: 2003-09-08 00:00:00
Description Of Incident: One (1) 550-gallon Waste oil UST
Owner/Operator: Not reported
Ownership: 1
Operation Type: 1
Type: 5
Location: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: 2
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: C
Ust Number: C

Last Modified: 2003-09-15 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Facility ID: Not reported
UST Number: RA-5804
Incident Number: 33350
Contamination Type: Groundwater/Both
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 08/31/2007
Date Occur: 07/11/2007
Cleanup: 07/11/2007
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: Not reported
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: 1
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9388 -79.0583
Testlat: Not reported
Regional Officer Project Mgr: JFM
Region: Raleigh
Company: Town of Chapel Hill
Contact Person: Brady Moore
Telephone: 9199695120
RP Address: 405 Martin Luther King
RP City,St,Zip: Chapel Hill, NC 27514
RP County: Not reported
Comments: One (01) 550-gallon waste oil UST, one (01) 1K-gallon waste oil UST, one (01) 12K-gallon gasoline UST and one (01) 12K-gallon diesel UST removed. 09/05/2007, JFM/// 12/19/07 - Updated receptor survey indicated no WSWs within 1500'. Low risk site. - CED ////

5 Min Quad: Not reported

PIRF:

Facility Id: 33350
Date Occurred: 2007-07-11 00:00:00
Date Reported: 2007-08-31 00:00:00
Description Of Incident: One (01) 550-gallon waste oil UST, one (01) 1K-gallon waste oil UST, one (01) 12K-gallon gasoline UST and one (01) 12K-gallon diesel UST removed.
Owner/Operator: Not reported
Ownership: 1
Operation Type: 1
Type: 3
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: Not reported
Ust Number: P

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST TRUST:

Facility ID: 0-035865
Site ID: 26371
Site Note: Commercial; first apply a 60% apportionment for ineligible tanks (which means 40% eligible), then apply a \$20,000 deductible; then 100% eligible for costs that exceed the \$20,000 deductible.[CGS 12/28/09]
Site Eligible?: True
Commercial Find: 100% Commercial
Priority Rank: Not reported
Deductable Amount: 20000
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

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UST:

Facility Id: 00-0-0000022269
Contact: TOWN OF CHAPEL HILL ATTN:TRANSIT
Contact Address1: 306 N. COLUMBIA ST-MAINT SUPERIN
Contact Address2: Not reported
Contact City/State/Zip: CHAPEL HILL, NC 27516-2113
FIPS County Desc: Orange
Latitude: 35.93907
Longitude: -79.05839

Tank Id: 1
Tank Status: Removed
Installed Date: 03/15/1979
Perm Close Date: 03/24/1998
Product Key: 1
Product Name: Diesel
Tank Capacity: 8000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Single Wall Steel
Piping System Key: Unknown
Other CP Tank: Not reported

Tank Id: 2
Tank Status: Removed
Installed Date: 03/15/1979

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

Perm Close Date: 03/24/1998
Product Key: 3
Product Name: Gasoline, Gas Mix
Tank Capacity: 10000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Single Wall Steel
Piping System Key: Unknown
Other CP Tank: Not reported

Tank Id: 3
Tank Status: Removed
Installed Date: 03/15/1979
Perm Close Date: 03/24/1998
Product Key: 3
Product Name: Gasoline, Gas Mix
Tank Capacity: 10000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Single Wall Steel
Piping System Key: Unknown
Other CP Tank: Not reported

Tank Id: 4
Tank Status: Removed
Installed Date: 03/15/1979
Perm Close Date: 12/04/2001
Product Key: 14
Product Name: Oil, New/Used/Mix
Tank Capacity: 550
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Single Wall Steel
Piping System Key: Unknown
Other CP Tank: Not reported

Tank Id: 5
Tank Status: Removed
Installed Date: 03/15/1979

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PUBLIC WORKS GARAGE (Continued)

U001438129

Perm Close Date: 12/04/2001
Product Key: 14
Product Name: Oil, New/Used/Mix
Tank Capacity: 1000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Tank Construction: Single Wall Steel
Piping Construction: Single Wall Steel
Piping System Key: Unknown
Other CP Tank: Not reported

34
ENE
1/4-1/2
0.496 mi.
2617 ft.

**BARAZANDEH PROPERTY (FARZIN)
311 BURLAGE CIRCLE
CHAPEL HILL, NC 27514**

**LUST S109164494
LUST TRUST N/A**

**Relative:
Lower**

LUST:
Facility ID: Not reported
UST Number: RA-6023
Incident Number: 33563
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 07/24/2008
Date Occur: 07/16/2008
Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: Not reported
Risk Class Based On Review: U
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0

**Actual:
310 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BARAZANDEH PROPERTY (FARZIN) (Continued)

S109164494

RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.9281 -79.0411
Testlat: Not reported
Regional Officer Project Mgr: DMD
Region: Raleigh
Company: BARAZANDEH PROPERTY (FARZIN)
Contact Person: FARZIN BARAZANDEH
Telephone: 9199686119
RP Address: 311 BURLAGE CIRCLE
RP City,St,Zip: CHAPEL HILL, NC 27514
RP County: Not reported
Comments: REMOVED 550 GAL RESIDENTIAL HEATING OIL UST AND SUSPECTED CONTAM SOIL ON 7/7/08. SOIL SAMPLE B1-5.5' CONFIRMED RELEASE OF 1100 DRO/60 GRO (MG/KG)-DMD,8/26/08.////ollowing removal of 26.96 tons contam soil, two resid sidewall soil samples > Comm/Ind MSCCs-DMD,12/12/08////
5 Min Quad: Not reported

PIRF:

Facility Id: 33563
Date Occurred: 2008-07-16 00:00:00
Date Reported: 2008-07-24 00:00:00
Description Of Incident: REMOVED 550 GAL RESIDENTIAL HEATING OIL UST AND SUSPECTED CONTAM SOIL ON 7/7/08. SOIL SAMPLE B1-5.5' CONFIRMED RELEASE OF 1100 DRO/60 GRO (MG/KG).
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P
Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BARAZANDEH PROPERTY (FARZIN) (Continued)

S109164494

Close-out Report: Not reported

LUST TRUST:

Facility ID: Not reported
Site ID: 33563
Site Note: Noncommercial; 100% eligible; \$0 deductible.[CGS 1/12/09]
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

[Click this hyperlink](#) while viewing on your computer to access additional NC LUST TRUST: detail in the EDR Site Report.

35
South
1/2-1
0.973 mi.
5139 ft.

UNC-PHILLIPS HALL
120 E CAMERON AVE
CHAPEL HILL, NC

SHWS **S101573932**
IMD **N/A**
LUST

Relative:
Higher

SHWS:
Facility ID: NONCD0002408
Lat/Longitude: 35.91065 / -79.05263
Geolocation Method: On Screen Placement On Georeferenced Map

Actual:
500 ft.

IMD:

Region: RAL
Facility ID: 13251
Date Occurred: 10/5/1994
Submit Date: 1/26/1995
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: SOIL SAMPLE AT 100000 GAL #2 UST FOR 5030 SHOWED 4000PPM TPH
Operator: ROBERT WALTON
Contact Phone: (919)966-6666
Owner Company: UNIVERSITY OF NORTH CAROLINA
Operator Address: 212 FINLEY GOLF COURSE RD
Operator City: CHAPEL HILL
Oper City,St,Zip: CHAPEL HILL, NC 27514-
Ownership: State
Operation: Educational/Religious
Material: FUEL OIL
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Facility
Setting: Urban
Risk Site: L
Site Priority: 20E
Priority Code: L
Priority Update: 4/16/1998
Dem Contact: CED
Wells Affected: Not reported
Num Affected: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC-PHILLIPS HALL (Continued)

S101573932

Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: Not reported
Longitude: Not reported
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: NOD
Agency: DWM
Facility ID: 13251
Last Modified: Not reported
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

LUST:

Facility ID: Not reported
UST Number: RA-2176
Incident Number: 13251
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 10/05/1994
Date Occur: 09/19/1994
Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Non Regulated
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 20E
Phase Of LSA Req: 1
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC-PHILLIPS HALL (Continued)

S101573932

LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: Not reported
Reel Num: Not reported
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: True
Lat/Long Decimal: 35.9106 -79.0528
Testlat: Not reported

Regional Officer Project Mgr: DMD
Region: Raleigh
Company: UNIVERSITY OF NORTH CAROLINA
Contact Person: Larry Daw
Telephone: 9199626666
RP Address: 1120 Estes Drive Extension,
RP City,St,Zip: CHAPEL HILL, NC 275991650
RP County: Not reported

Comments: 03/06/95 - UST CLO rpt: 10K heating oil UST on-site. Soil contam. Identified @12-13' bls to N of UST, all other samples BDL. - CED ////
02/08/08 - UNC decided to remove the UST. On 08/06/07 UST removed from site. Closure samples collected from beneath UST > TPH (CS3=99 mg/kg). Resampled location for RBCA. Only dibenz (a,h)anthracene was > S-GW MSCCs. Approx. 19.53 tons impacted soil removed. SW sample > S-GW MSCCs. (SW-2 could not be excavated further due to building foundation)). GW not encountered. No FP. Irrigation WSW located adj to UST not in use, but not abandoned. Recommends LSA. - CED ////
02/19/08 - LSA NORR Issued. - CED ////Soil exceeds comm/indus MSCCs. GW exceeds 2L for PCE and is present above detection levels for trichlorofluoromethane and chloroform; however, no petroleum constituents were detected. Additional soils cannot be excavated due to presence of generator, etc. Site remains high risk due to irrigation well (still in use per Larry Daw, UNC). Site below TF funding bar; therefore, sending stop funding NORR.DMD, 10-21-10////MW Resampling. -MRP//non-petroleum constituents only; data has been provided by UNC to Inactive Hazardous Sites Branch for review. DMD, 1-21-11 ////

5 Min Quad: Not reported

PIRF:

Facility Id: 13251
Date Occurred: 1994-10-05 00:00:00
Date Reported: 1995-01-26 00:00:00
Description Of Incident: SOIL SAMPLE AT 100000 GAL #2 UST FOR 5030 SHOWED 4000PPM TPH
Owner/Operator: ROBERT WALTON
Ownership: 7
Operation Type: 4
Type: 4
Location: 1
Site Priority: 20E
Priority Update: 1998-04-16 00:00:00
Wells Affected Y/N: Not reported
Samples Include: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNC-PHILLIPS HALL (Continued)

S101573932

7#5 Minute Quad:	Not reported
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Min_Soil
Err Type:	Not reported
Cause:	Not reported
Source:	Not reported
Ust Number:	Not reported
Last Modified:	Not reported
Incident Phase:	Response
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHAPEL HILL	1001232809	CAROLINA CLEANERS	2214 CHAPEL HILL/NELSON HWY		FINDS,RCRA-CESQG
CHAPEL HILL	1003868322	UNIVERSITY OF NC/ARPT RD OLD SAN L	AIRPORT RD	27514	CERCLIS-NFRAP
CHAPEL HILL	1003868323	UNIVERSITY OF NC/ARPT WASTE DSPL A	AIRPORT RD	27514	CERCLIS-NFRAP
CHAPEL HILL	1004745846	CLEORA STERLING CORP	616 HWY 54 W	27516	FINDS,RCRA-CESQG
CHAPEL HILL	1004747005	AMERICAN STONE COMPANY - CHAPEL HI	1807 US HIGHWAY 54 WEST	27516	FINDS,RCRA-CESQG,AIRS (AFS)
HILLSBOROUGH	1007713832	HILL TOP MHP	7105 HIGHWAY 86N		FINDS
CHAPEL HILL	1007714010	NORTH CHAPEL BAPTIST CHURCH	7707 HIGHWAY 86 NORTH		FINDS
CHAPEL HILL	S106896242	DOT-N-DASH	HIGHWAY 54 / SMITH LEVEL ROAD		IMD,LUST
CHAPEL HILL	S108664952	KIRBY'S AMERICAN STATION PROPERTY	4721 HIGHWAY 54 WEST	27514	LUST
CHAPEL HILL	S109164493	ROCHELLE PROPERTY (CHARLES)	6419 NC HWY 86	27514	LUST TRUST,LUST
DURHAM	S110628729	BLUE CROSS BLUE SHIELD (DURHAM SER	HIGHWAY 150-501	27514	LAST
CHAPEL HILL	S110629421	MIKE CORNER STORE	4908 HWY 54 WEST	27516	LAST
CARRBORO	U001438050	BEAL-TILLMAN	HIGHWAY 54 WEST	27510	UST
CHAPEL HILL	U001438289	J LOUIS ALLEN	HWY 54	27514	UST
CHAPEL HILL	U001438776	JERRY'S STOP & SHOP	RT 4, BOX 507-OLD GREENSBORO H	27516	UST
CHAPEL HILL	U001440050	GORDON'S GULF SERVICE	ROUTE 3, HWY 15	27514	UST
CHAPEL HILL	U003134181	TRIPP'S GROCERY	ROUTE 6	27514	UST
CHAPEL HILL	U003137316	STOP 'N SHOP	ROUTE 9, BOX 370	27514	UST
CHAPEL HILL	U003137754	GORDON'S BP SERVICE	RT. 3, HWY 15	27514	UST
CHAPEL HILL	U003562969	WAS KIRBY'S AMERICAN STATION	RT 1 BOX 153 HWY 54 WEST	27514	UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 05/09/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/22/2013
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 05/09/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/22/2013
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 05/09/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/22/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 05/29/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 09/09/2013
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 07/08/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 05/29/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 05/09/2013
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/14/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/29/2013	Telephone: 703-603-0695
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 06/10/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/14/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/29/2013	Telephone: 703-603-0695
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 06/10/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/20/2013
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/02/2013
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/17/2013	Telephone: 202-267-2180
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 07/01/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Annually

State- and tribal - equivalent NPL

HSDS: Hazardous Substance Disposal Site

Locations of uncontrolled and unregulated hazardous waste sites. The file includes sites on the National Priority List as well as those on the state priority list.

Date of Government Version: 08/09/2011	Source: North Carolina Center for Geographic Information and Analysis
Date Data Arrived at EDR: 11/08/2011	Telephone: 919-754-6580
Date Made Active in Reports: 12/05/2011	Last EDR Contact: 05/03/2013
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/19/2013
	Data Release Frequency: Biennially

State- and tribal - equivalent CERCLIS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SHWS: Inactive Hazardous Sites Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 05/24/2013	Source: Department of Environment, Health and Natural Resources
Date Data Arrived at EDR: 06/20/2013	Telephone: 919-508-8400
Date Made Active in Reports: 07/05/2013	Last EDR Contact: 06/20/2013
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/30/2013
	Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/01/2013	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 04/02/2013	Telephone: 919-733-0692
Date Made Active in Reports: 05/09/2013	Last EDR Contact: 07/03/2013
Number of Days to Update: 37	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Semi-Annually

OLI: Old Landfill Inventory

Old landfill inventory location information. (Does not include no further action sites and other agency lead sites).

Date of Government Version: 04/05/2013	Source: Department of Environment & Natural Resources
Date Data Arrived at EDR: 04/18/2013	Telephone: 919-733-4996
Date Made Active in Reports: 05/09/2013	Last EDR Contact: 04/16/2013
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/29/2013
	Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Regional UST Database

This database contains information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database. Sites in this database with Incident Numbers are considered LUSTs.

Date of Government Version: 05/10/2013	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 05/16/2013	Telephone: 919-733-1308
Date Made Active in Reports: 07/05/2013	Last EDR Contact: 05/16/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/26/2013
	Data Release Frequency: Quarterly

LUST TRUST: State Trust Fund Database

This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

Date of Government Version: 04/03/2013	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 04/17/2013	Telephone: 919-733-1315
Date Made Active in Reports: 05/09/2013	Last EDR Contact: 10/17/2013
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tank site locations.

Date of Government Version: 05/10/2013
Date Data Arrived at EDR: 05/16/2013
Date Made Active in Reports: 07/05/2013
Number of Days to Update: 50

Source: Department of Environment & Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 05/16/2013
Next Scheduled EDR Contact: 08/26/2013
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/01/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 162

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/01/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/05/2013	Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013	Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 04/29/2013
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Petroleum Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 05/10/2013	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 05/16/2013	Telephone: 919-733-1308
Date Made Active in Reports: 07/03/2013	Last EDR Contact: 05/16/2013
Number of Days to Update: 48	Next Scheduled EDR Contact: 08/26/2013
	Data Release Frequency: Quarterly

AST: AST Database

Facilities with aboveground storage tanks that have a capacity greater than 21,000 gallons.

Date of Government Version: 03/25/2013	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 03/25/2013	Telephone: 919-715-6183
Date Made Active in Reports: 04/02/2013	Last EDR Contact: 06/20/2013
Number of Days to Update: 8	Next Scheduled EDR Contact: 10/07/2013
	Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011	Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011	Telephone: 214-665-7591
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 04/29/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/28/2013	Telephone: 913-551-7003
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 04/29/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6137
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 04/29/2013
Number of Days to Update: 49	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013	Source: EPA Region 9
Date Data Arrived at EDR: 02/26/2013	Telephone: 415-972-3368
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 04/29/2013
Number of Days to Update: 45	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012	Source: EPA, Region 1
Date Data Arrived at EDR: 11/07/2012	Telephone: 617-918-1313
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 04/29/2013
Number of Days to Update: 156	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/06/2013	Source: EPA Region 4
Date Data Arrived at EDR: 02/08/2013	Telephone: 404-562-9424
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 04/29/2013
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012	Source: EPA Region 5
Date Data Arrived at EDR: 08/03/2012	Telephone: 312-886-6136
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 04/29/2013
Number of Days to Update: 94	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013	Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013	Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 04/29/2013
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/18/2013
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/29/2013
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring

A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible, practical, or necessary at the site.

Date of Government Version: 05/24/2013	Source: Department of Environment, Health and Natural Resources
Date Data Arrived at EDR: 06/20/2013	Telephone: 919-508-8400
Date Made Active in Reports: 07/05/2013	Last EDR Contact: 12/17/2110
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/30/2013
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012	Source: EPA, Region 1
Date Data Arrived at EDR: 10/02/2012	Telephone: 617-918-1102
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/02/2013
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: Responsible Party Voluntary Action Sites

Responsible Party Voluntary Action site locations.

Date of Government Version: 05/24/2013	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 06/20/2013	Telephone: 919-508-8400
Date Made Active in Reports: 07/05/2013	Last EDR Contact: 06/20/2013
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/30/2013
	Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects Inventory

A brownfield site is an abandoned, idled, or underused property where the threat of environmental contamination has hindered its redevelopment. All of the sites in the inventory are working toward a brownfield agreement for cleanup and liability control.

Date of Government Version: 04/04/2013	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 04/10/2013	Telephone: 919-733-4996
Date Made Active in Reports: 05/23/2013	Last EDR Contact: 07/10/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: No Update Planned

HIST LF: Solid Waste Facility Listing

A listing of solid waste facilities.

Date of Government Version: 11/06/2006
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 17

Source: Department of Environment & Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Quarterly

SWRCY: Recycling Center Listing

A listing of recycling center locations.

Date of Government Version: 08/06/2012
Date Data Arrived at EDR: 08/08/2012
Date Made Active in Reports: 09/13/2012
Number of Days to Update: 36

Source: Department of Environment & Natural Resources
Telephone: 919-707-8137
Last EDR Contact: 06/14/2013
Next Scheduled EDR Contact: 08/19/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/03/2013
Next Scheduled EDR Contact: 08/19/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/12/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 59

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/03/2013
Next Scheduled EDR Contact: 09/16/2013
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/01/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Annually

IMD: Incident Management Database

Groundwater and/or soil contamination incidents

Date of Government Version: 07/21/2006
Date Data Arrived at EDR: 08/01/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 22

Source: Department of Environment and Natural Resources
Telephone: 919-733-3221
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 06/14/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/27/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/06/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/15/2013	Telephone: (404) 562-8651
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 07/01/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 05/07/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/19/2013
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/19/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/29/2013
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 02/26/2013	Telephone: 202-528-4285
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 06/10/2013
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 03/13/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/11/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/28/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 04/18/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/04/2013
Next Scheduled EDR Contact: 09/16/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/29/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/28/2013
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/09/2013
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/28/2013
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/09/2013
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/29/2013
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/12/2013
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/01/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2012	Source: EPA
Date Data Arrived at EDR: 01/16/2013	Telephone: 202-566-0500
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 07/17/2013
Number of Days to Update: 114	Next Scheduled EDR Contact: 10/28/2013
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/14/2013	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/20/2013	Telephone: 301-415-7169
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 07/10/2013
Number of Days to Update: 112	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/09/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/11/2013	Telephone: 202-343-9775
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 07/12/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013	Source: EPA
Date Data Arrived at EDR: 03/21/2013	Telephone: (404) 562-9900
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 06/13/2013
Number of Days to Update: 111	Next Scheduled EDR Contact: 09/23/2013
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/29/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/30/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Biennially

UIC: Underground Injection Wells Listing

A listing of uncerground injection wells locations.

Date of Government Version: 05/13/2013
Date Data Arrived at EDR: 05/16/2013
Date Made Active in Reports: 07/05/2013
Number of Days to Update: 50

Source: Department of Environment & Natural Resources
Telephone: 919-807-6412
Last EDR Contact: 05/13/2013
Next Scheduled EDR Contact: 08/26/2013
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Sites

Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 03/26/2013
Date Made Active in Reports: 05/09/2013
Number of Days to Update: 44

Source: Department of Environment & Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 06/25/2013
Next Scheduled EDR Contact: 10/07/2013
Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing

General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 05/01/2013
Date Data Arrived at EDR: 06/05/2013
Date Made Active in Reports: 07/05/2013
Number of Days to Update: 30

Source: Department of Environment & Natural Resources
Telephone: 919-733-7015
Last EDR Contact: 05/28/2013
Next Scheduled EDR Contact: 08/19/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/19/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/29/2013
	Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 07/18/2013
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/04/2013
	Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013	Source: EPA
Date Data Arrived at EDR: 01/30/2013	Telephone: 202-564-5962
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 06/25/2013
Number of Days to Update: 100	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/23/2013	Source: EPA
Date Data Arrived at EDR: 01/30/2013	Telephone: 202-564-5962
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 06/25/2013
Number of Days to Update: 100	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Sites

A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 12/31/2007	Source: Department of Environment & Natural Resources
Date Data Arrived at EDR: 08/04/2009	Telephone: 919-807-6359
Date Made Active in Reports: 08/17/2009	Last EDR Contact: 05/06/2013
Number of Days to Update: 13	Next Scheduled EDR Contact: 08/19/2013
	Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/18/2012	Source: EPA
Date Data Arrived at EDR: 04/04/2013	Telephone: 202-564-6023
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 07/03/2013
Number of Days to Update: 97	Next Scheduled EDR Contact: 10/14/2013
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 05/17/2013
Number of Days to Update: 7	Next Scheduled EDR Contact: 08/26/2013
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/14/2013	Telephone: 703-603-8787
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 07/03/2013
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/21/2013
	Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 12/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2013	Telephone: 617-520-3000
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 05/10/2013
Number of Days to Update: 81	Next Scheduled EDR Contact: 08/26/2013
	Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/04/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/15/2013	Telephone: 202-566-1917
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 05/20/2013
Number of Days to Update: 56	Next Scheduled EDR Contact: 09/02/2013
	Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/19/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/03/2013
Next Scheduled EDR Contact: 08/12/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/18/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/03/2012
Date Made Active in Reports: 10/26/2012
Number of Days to Update: 23

Source: Department of Environmental & Natural Resources
Telephone: 919-508-8496
Last EDR Contact: 06/26/2013
Next Scheduled EDR Contact: 10/14/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/14/2013
Next Scheduled EDR Contact: 09/23/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 09/23/2011
Date Data Arrived at EDR: 10/06/2011
Date Made Active in Reports: 11/01/2011
Number of Days to Update: 26

Source: Department of Environment & Natural Resources
Telephone: 919-733-1322
Last EDR Contact: 05/16/2013
Next Scheduled EDR Contact: 08/26/2013
Data Release Frequency: Quarterly

Financial Assurance 3: Financial Assurance Information

Hazardous waste financial assurance information.

Date of Government Version: 09/30/2012
Date Data Arrived at EDR: 10/19/2012
Date Made Active in Reports: 11/29/2012
Number of Days to Update: 41

Source: Department of Environment & Natural Resources
Telephone: 919-707-8222
Last EDR Contact: 06/13/2013
Next Scheduled EDR Contact: 09/30/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A	Source: N/A
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/20/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/21/2013	Telephone: 860-424-3375
Date Made Active in Reports: 06/27/2013	Last EDR Contact: 05/21/2013
Number of Days to Update: 37	Next Scheduled EDR Contact: 09/02/2013
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2012	Telephone: N/A
Date Made Active in Reports: 08/28/2012	Last EDR Contact: 04/19/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/29/2013
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2013	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/09/2013	Telephone: 518-402-8651
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 05/09/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 08/19/2013
	Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/23/2012	Telephone: 717-783-8990
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 07/18/2013
Number of Days to Update: 57	Next Scheduled EDR Contact: 11/04/2013
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2011	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/22/2012	Telephone: 401-222-2797
Date Made Active in Reports: 07/31/2012	Last EDR Contact: 05/28/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: 09/09/2013
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011

Date Data Arrived at EDR: 07/19/2012

Date Made Active in Reports: 09/27/2012

Number of Days to Update: 70

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 07/17/2013

Next Scheduled EDR Contact: 09/30/2013

Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List

Source: Department of Health & Human Services

Telephone: 919-662-4499

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Environment & Natural Resources

Telephone: 919-733-2090

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TOWN OF CHAPEL HILL
828 MARTIN LUTHER KING JR BLVD
CHAPEL HILL, NC 27514

TARGET PROPERTY COORDINATES

Latitude (North):	35.9267 - 35° 55' 36.12"
Longitude (West):	79.0534 - 79° 3' 12.24"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	675619.4
UTM Y (Meters):	3977369.0
Elevation:	327 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	35079-H1 CHAPEL HILL, NC
Most Recent Revision:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

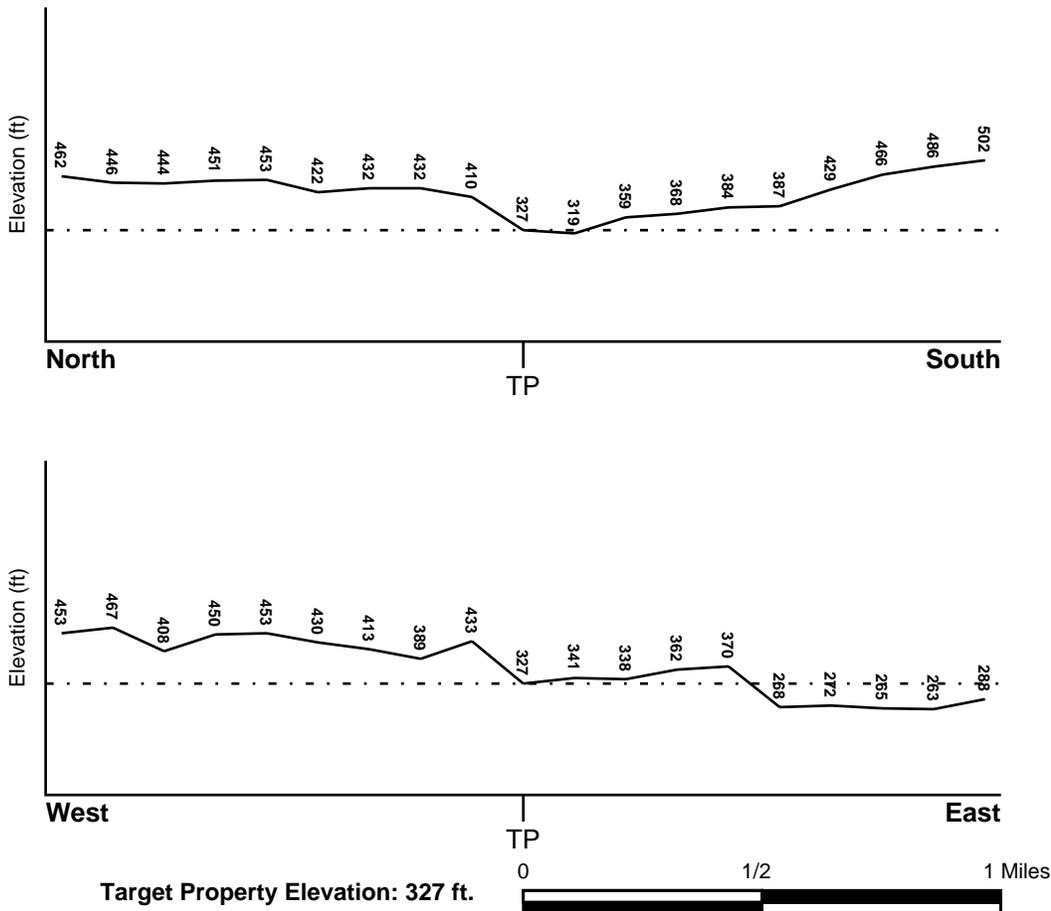
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> ORANGE, NC	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	37135C - FEMA DFIRM Flood data
Additional Panels in search area:	Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> CHAPEL HILL	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

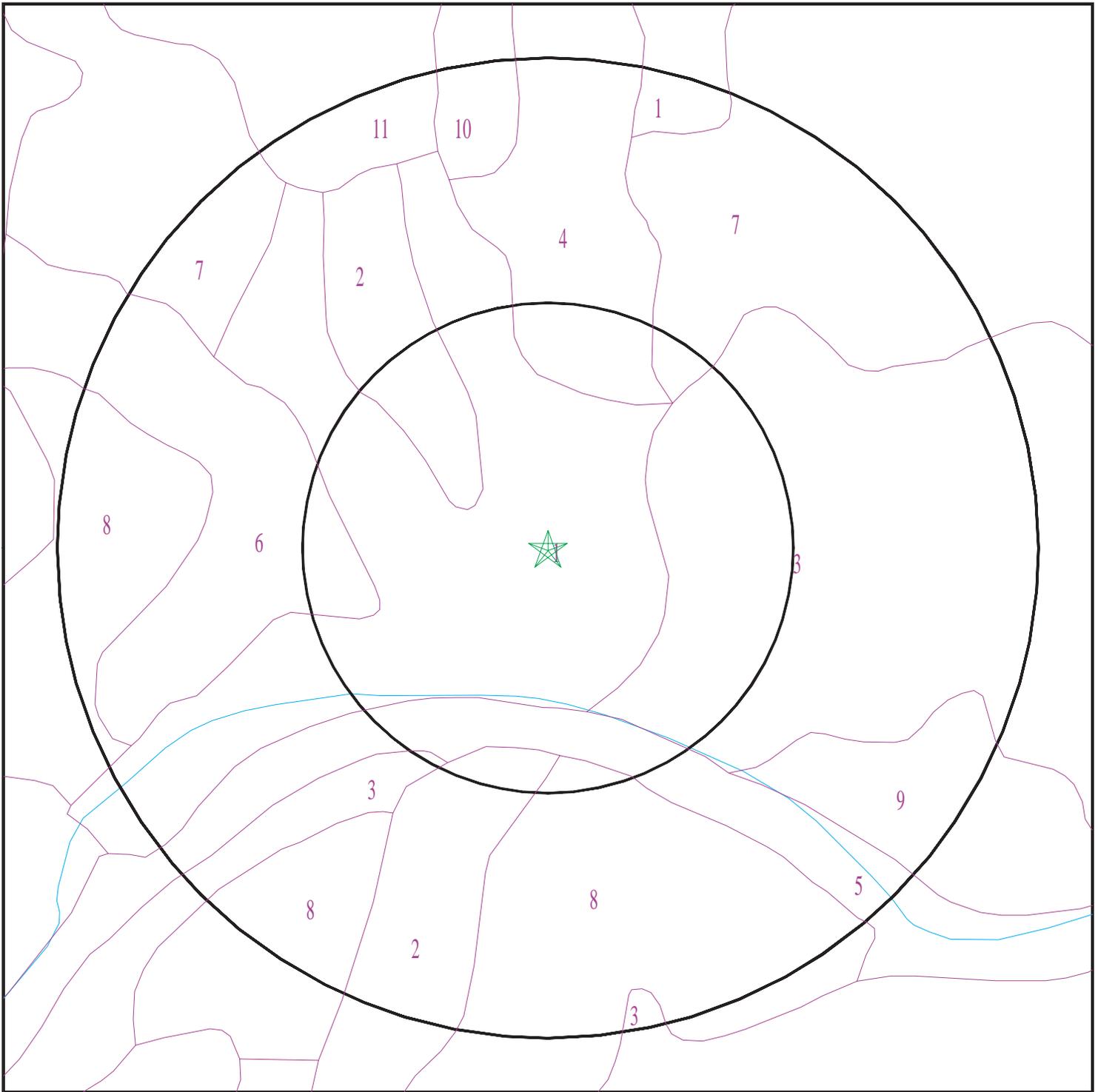
Era:	Mesozoic
System:	Triassic
Series:	Triassic
Code:	Tr (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3669805.1s



- ★ Target Property
- ~ SSURGO Soil
- ~ Water



SITE NAME: Town of Chapel Hill
ADDRESS: 828 Martin Luther King Jr Blvd
Chapel Hill NC 27514
LAT/LONG: 35.9267 / 79.0534

CLIENT: Falcon Engineering, Inc.
CONTACT: Josh Dunbar
INQUIRY #: 3669805.1s
DATE: July 18, 2013 4:35 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Tatum

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:
2	7 inches	50 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:
3	50 inches	59 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture: variable

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: Wedowee

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	11 inches	14 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	14 inches	27 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	27 inches	78 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 4

Soil Component Name: Tatum

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	5 inches	53 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	53 inches	62 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: Chewacla

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 38 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6
2	5 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6
3	14 inches	22 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6
4	22 inches	50 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6
5	50 inches	59 inches	loamy fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6.5 Min: 3.6

Soil Map ID: 6

Soil Component Name: Georgeville

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	7 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	14 inches	44 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
4	44 inches	78 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 7

Soil Component Name: Georgeville

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	5 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	35 inches	78 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 8

Soil Component Name: Appling

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
2	11 inches	48 inches	sandy clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
3	48 inches	55 inches	clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
4	55 inches	64 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5
5	7 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 5.5 Min: 4.5

Soil Map ID: 9

Soil Component Name: Altavista

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.5
2	9 inches	59 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.5

Soil Map ID: 10

Soil Component Name: Iredell

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C/D - Drained/undrained hydrology class of soils that can be drained and classified.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 8.4 Min: 6.6
2	5 inches	24 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 8.4 Min: 6.6
3	24 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 8.4 Min: 6.6
4	27 inches	64 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 11

Soil Component Name: Georgeville

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	7 inches	61 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	61 inches	78 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000891849	1/4 - 1/2 Mile WNW
2	USGS40000891888	1/4 - 1/2 Mile NNE
3	USGS40000891737	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
<u> </u>	<u> </u>	<u> </u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
<u> </u>	<u> </u>	<u> </u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

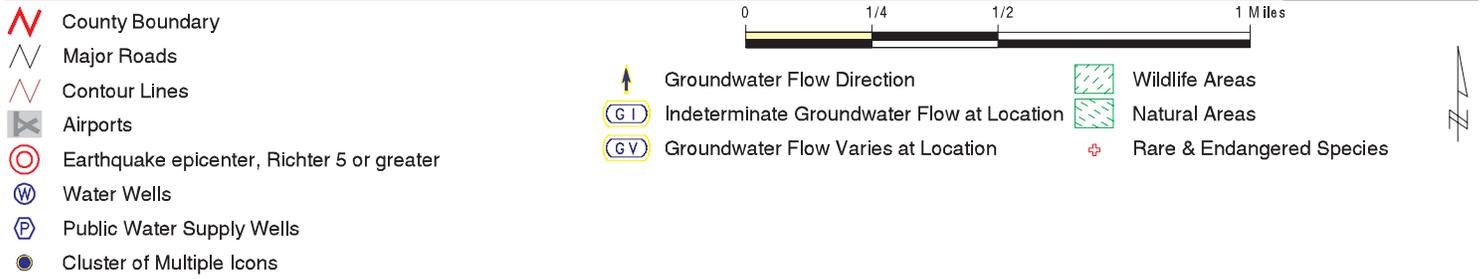
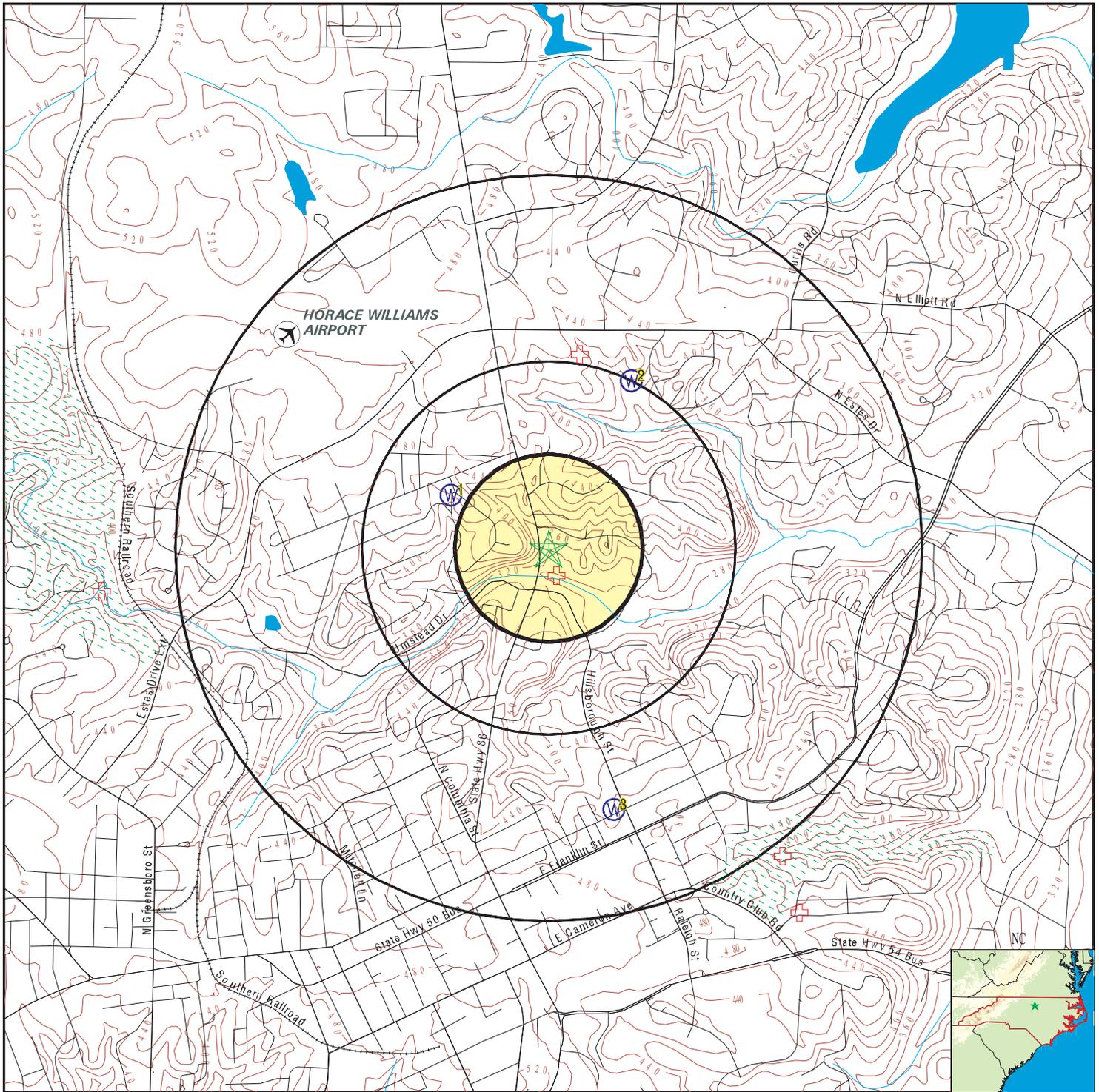
NORTH CAROLINA NATURAL HERITAGE ELEMENT OCCURRENCES

ID	Class
<u> </u>	<u> </u>
NC50005306	Plants
NC50005999	Plants
NC50007525	Animal
NC50009897	Plants
NC50013273	Non Vascular

NORTH CAROLINA SIGNIFICANT NATURAL HERITAGE AREAS DATABASE:

ID	Name
<u> </u>	<u> </u>
NC10002135	BOLIN CREEK
NC10002136	BATTLE PARK

PHYSICAL SETTING SOURCE MAP - 3669805.1s



SITE NAME: Town of Chapel Hill
 ADDRESS: 828 Martin Luther King Jr Blvd
 Chapel Hill NC 27514
 LAT/LONG: 35.9267 / 79.0534

CLIENT: Falcon Engineering, Inc.
 CONTACT: Josh Dunbar
 INQUIRY #: 3669805.1s
 DATE: July 18, 2013 4:35 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1

WNW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000891849

Org. Identifier:	USGS-NC		
Formal name:	USGS North Carolina Water Science Center		
Monloc Identifier:	USGS-355543079033001		
Monloc name:	OR-245		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	03030002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	35.9287547
Longitude:	-79.0580668	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	420
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Felsic Metagneous Rock		
Aquifer type:	Not Reported		
Construction date:	19770818	Welldepth:	220
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1977-08-18	30.0	

2

NNE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000891888

Org. Identifier:	USGS-NC		
Formal name:	USGS North Carolina Water Science Center		
Monloc Identifier:	USGS-355559079025901		
Monloc name:	OR-246		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	03030002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	35.9331991
Longitude:	-79.0494555	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	395
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Felsic Metagneous Rock		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	420
Construction date:	19810421	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1981-04-21	25.0	

3
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000891737

Org. Identifier:	USGS-NC		
Formal name:	USGS North Carolina Water Science Center		
Monloc Identifier:	USGS-355459079030201		
Monloc name:	OR-240		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	03030002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	35.9165329
Longitude:	-79.0502888	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	450
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Felsic Metaigneous Rock		
Aquifer type:	Not Reported		
Construction date:	19770221	Welldepth:	200
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1977-02-21	30.0	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

GIS ID: 52003
Classification by Type: Plants
Occurrence Status: Historic, no evidence of destruction

NC_NHEO NC50005306

GIS ID: 92665
Classification by Type: Plants
Occurrence Status: Historic, no evidence of destruction

NC_NHEO NC50005999

GIS ID: 442955
Classification by Type: Animal
Occurrence Status: X

NC_NHEO NC50007525

GIS ID: 61771
Classification by Type: Plants
Occurrence Status: Historic, no evidence of destruction

NC_NHEO NC50009897

GIS ID: 42893
Classification by Type: Non Vascular
Occurrence Status: Extant

NC_NHEO NC50013273

Site Name: BOLIN CREEK
Quality: Not Reported
Acres per Polygon: 242.78

NC_SNHA NC10002135

NC_SNHA NC10002136

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

North Carolina - Significant Natural Heritage Areas:

Site Name:	BATTLE PARK
Quality:	Not Reported
Acres per Polygon:	61.53

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
10	6.18	0.3	4.5
7	0.74	0.3	2.2

Federal EPA Radon Zone for ORANGE County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 27514

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.020 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.867 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Environment & Natural Resources

Telephone: 919-733-2090

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells

Source: Department of Environmental Health

Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

NC Natural Areas: Significant Natural Heritage Areas

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

A polygon coverage identifying sites (terrestrial or aquatic that have particular biodiversity significance.

A site's significance may be due to the presence of rare species, rare or high quality natural communities, or other important ecological features.

NC Game Lands: Wildlife Resources Commission Game Lands

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

RADON

State Database: NC Radon

Source: Department of Environment & Natural Resources

Telephone: 919-733-4984

Radon Statistical and Non Statistical Data

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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APPENDIX F
WELL RECORD & LABORATORY DATA





NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2986-A

1. WELL CONTRACTOR:

Landa M. Shaver
 Well Contractor (Individual) Name
American Environmental Drilling, Inc.
 Well Contractor Company Name
324 Fields Drive, Suite C
 Street Address
Aberdeen NC 28315
 City or Town State Zip Code
(910)-944-3140
 Area code- Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT # MW #1
 OTHER ASSOCIATED PERMIT #(if applicable) _____
 SITE WELL ID #(if applicable) _____

3. WELL USE (Check Applicable Box) Monitoring Municipal/Public

Industrial/Commercial Agricultural Recovery Injection
 Irrigation Other (list use) _____

DATE DRILLED 4/29/2013

4. WELL LOCATION:

828 Martin Luther King Blvd. 27599
 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Chapel Hill COUNTY Orange

TOPOGRAPHIC / LAND SETTING: (check appropriate box)

Slope Valley Flat Ridge Other _____

LATITUDE 35° 55' 602 " DMS OR 3X.XXXXXXXXXX DD
 LONGITUDE 79° 03' 194 " DMS OR 7X.XXXXXXXXXX DD

Latitude/longitude source: GPS Topographic map (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. FACILITY- is the name of the business where the well is located.

Chapel Hill Police Dept.
 Facility Name Facility ID #(if applicable)
828 Martin Luther King Blvd
 Street Address
Chapel Hill NC 27599
 City or Town State Zip Code

Contact Name _____

Mailing Address _____

City or Town State Zip Code _____

Area code - Phone number _____

6. WELL DETAILS:

a. TOTAL DEPTH: 40

b. DOES WELL REPLACE EXISTING WELL? YES NO

c. WATER LEVEL Below Top of Casing: _____ FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS -.06 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm) N/A METHOD OF TEST N/A

f. DISINFECTION: Type N/A Amount N/A

g. WATER ZONES (depth):
 Top 30 Bottom 40 Top _____ Bottom _____
 Top _____ Bottom _____ Top _____ Bottom _____
 Top _____ Bottom _____ Top _____ Bottom _____

7. CASING:		Depth	Diameter	Weight	Material
Top	<u>-.06</u>	Bottom	<u>30'</u>	<u>Ft. 2"</u>	<u>SCH40 PVC</u>
Top	_____	Bottom	_____	_____	_____
Top	_____	Bottom	_____	_____	_____

8. GROUT:		Depth	Material	Method
Top	<u>26'</u>	Bottom	<u>28'</u>	<u>Ft. Bentonite Tremie</u>
Top	<u>-.06</u>	Bottom	<u>26'</u>	<u>Ft. Portland Tremie</u>
Top	_____	Bottom	_____	_____

9. SCREEN:		Depth	Diameter	Slot Size	Material
Top	<u>30'</u>	Bottom	<u>40'</u>	<u>Ft. 2" in. .010 in.</u>	<u>PVC</u>
Top	_____	Bottom	_____	_____	_____
Top	_____	Bottom	_____	_____	_____

10. SAND/GRAVEL PACK:		Depth	Size	Material
Top	<u>28'</u>	Bottom	<u>40'</u>	<u>Ft. #3 Sand</u>
Top	_____	Bottom	_____	_____
Top	_____	Bottom	_____	_____

11. DRILLING LOG:

Top	Bottom	Formation Description
<u>0'</u>	<u>/ 5'</u>	<u>Top Soil</u>
<u>5'</u>	<u>/ 9'</u>	<u>Fill</u>
<u>9'</u>	<u>/ 40'</u>	<u>Black Ash</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

12. REMARKS

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Landa M. Shaver
 SIGNATURE OF CERTIFIED WELL CONTRACTOR

4/30/2013
DATE

Landa M. Shaver
 PRINTED NAME OF PERSON CONSTRUCTING THE WELL

May 6, 2013

Josh Dunbar
Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607

Project Location: Chapel Hill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13D1158

Enclosed are results of analyses for samples received by the laboratory on April 29, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607
ATTN: Josh Dunbar

REPORT DATE: 5/6/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13D1158

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chapel Hill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S1	13D1158-01	Soil		SM 2540G SW-846 8015C	
S4	13D1158-02	Soil		SM 2540G SW-846 8015C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is written on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

Project Location: Chapel Hill

Sample Description:

Work Order: 13D1158

Date Received: 4/29/2013

Field Sample #: S1

Sample ID: 13D1158-01

Start Date/Time: 4/29/2013 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 2:15:00PM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	6.2	4.4	mg/Kg dry	1		SW-846 8015C	5/1/13	5/1/13 19:05	EEH
Diesel Range Organics	8.0	14	3.2	mg/Kg dry	1	J	SW-846 8015C	5/1/13	5/2/13 12:56	SCS
Surrogates	% Recovery		Recovery Limits		Flag					
1-Chloro-3-fluorobenzene	93.6		70-130				5/1/13 19:05			
o-Terphenyl	52.1		40-140				5/2/13 12:56			

Project Location: Chapel Hill

Sample Description:

Work Order: 13D1158

Date Received: 4/29/2013

Field Sample #: S1

Sample ID: 13D1158-01

Start Date/Time: 4/29/2013 2:10:00PM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 2:15:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.9		% Wt	1		SM 2540G	4/30/13	5/1/13 9:57	RH

Project Location: Chapel Hill

Sample Description:

Work Order: 13D1158

Date Received: 4/29/2013

Field Sample #: S4

Sample ID: 13D1158-02

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	7.3	5.1	mg/Kg dry	1		SW-846 8015C	5/1/13	5/1/13 19:41	EEH
Diesel Range Organics	27	15	3.4	mg/Kg dry	1		SW-846 8015C	5/1/13	5/2/13 13:14	SCS
Surrogates	% Recovery		Recovery Limits		Flag					
1-Chloro-3-fluorobenzene	89.1		70-130				5/1/13 19:41			
o-Terphenyl	70.8		40-140				5/2/13 13:14			

Project Location: Chapel Hill

Sample Description:

Work Order: 13D1158

Date Received: 4/29/2013

Field Sample #: S4

Sample ID: 13D1158-02

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.2		% Wt	1		SM 2540G	4/30/13	5/1/13 9:57	RH

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13D1158-01 [S1]	B072077	04/30/13
13D1158-02 [S4]	B072077	04/30/13

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13D1158-01 [S1]	B072120	30.0	1.00	05/01/13
13D1158-02 [S4]	B072120	30.0	1.00	05/01/13

Prep Method: SW-846 5035/5030B-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13D1158-01 [S1]	B072173	4.60	16.9	05/01/13
13D1158-02 [S4]	B072173	4.20	16.9	05/01/13

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072120 - SW-846 3546										
Blank (B072120-BLK1)										
Prepared & Analyzed: 05/01/13										
Diesel Range Organics	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	2.91		mg/Kg wet	3.33		87.2	40-140			
LCS (B072120-BS1)										
Prepared: 05/01/13 Analyzed: 05/02/13										
Diesel Range Organics	32.3	8.3	mg/Kg wet	33.3		97.0	40-140			
Surrogate: o-Terphenyl	3.16		mg/Kg wet	3.33		94.7	40-140			
LCS Dup (B072120-BSD1)										
Prepared: 05/01/13 Analyzed: 05/02/13										
Diesel Range Organics	29.9	8.3	mg/Kg wet	33.3		89.6	40-140	8.02		
Surrogate: o-Terphenyl	3.02		mg/Kg wet	3.33		90.6	40-140			
Batch B072173 - SW-846 5035/5030B										
Blank (B072173-BLK1)										
Prepared & Analyzed: 05/01/13										
Gasoline Range Organics (GRO)	ND	1.0	mg/Kg wet							
Surrogate: 1-Chloro-3-fluorobenzene	0.0138		mg/Kg wet	0.0150		92.1	70-130			
LCS (B072173-BS1)										
Prepared & Analyzed: 05/01/13										
Gasoline Range Organics (GRO)	0.227	0.010	mg/Kg wet	0.250		90.9	80-120			
Surrogate: 1-Chloro-3-fluorobenzene	0.0146		mg/Kg wet	0.0150		97.6	70-130			
LCS Dup (B072173-BSD1)										
Prepared & Analyzed: 05/01/13										
Gasoline Range Organics (GRO)	0.240	0.010	mg/Kg wet	0.250		95.8	80-120	5.34	30	
Surrogate: 1-Chloro-3-fluorobenzene	0.0155		mg/Kg wet	0.0150		104	70-130			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8015C in Soil</i>	
Gasoline Range Organics (GRO)	NY,NY,VA,NH
Diesel Range Organics	NY,VA,NH

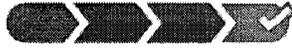
The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



802631889500

Ship (P/U) date :
Mon 4/29/2013 6:33 pm



Actual delivery :
Tues 4/30/2013 9:58 am

RAL US

Delivered

MA US

Signed for by: C. COLLINS

Travel History

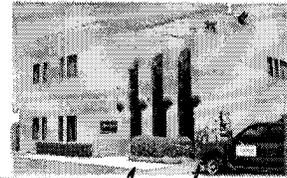
Date/Time	Activity	Location
- 4/30/2013 - Tuesday		
9:58 am	Delivered	MA
8:26 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:32 am	At local FedEx facility	WINDSOR LOCKS, CT
6:32 am	At destination sort facility	EAST GRANBY, CT
4:52 am	Departed FedEx location	INDIANAPOLIS, IN
12:01 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 4/29/2013 - Monday		
8:35 pm	Left FedEx origin facility	RALEIGH, NC
6:33 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

Local Scan Time

Shipment Facts

Tracking number	802631889500	Service	FedEx Priority Overnight
Dimensions	18x11x15 in.	Delivered To	Shipping/Receiving
Total pieces	1	Packaging	Your Packaging
Special handling section	Deliver Weekday		

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Falcon Eng. RECEIVED BY: CEC DATE: 4/30/13

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
If not, explain:
- 3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1°C

- 5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19
 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes No N/A
- 9) Do all samples have the proper Base pH: Yes No N/A
- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz <u>amber</u> clear jar	<u>4</u>
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	<u>2</u>
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>10</u>		PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 6
 # Bisulfate 4 # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev. 3 May 2012

May 29, 2013

Josh Dunbar
Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607

Project Location: Chapel Hill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13E0754

Enclosed are results of analyses for samples received by the laboratory on May 22, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager

Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607
ATTN: Josh Dunbar

REPORT DATE: 5/29/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13E0754

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chapel Hill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S4	13E0754-01	Soil		SM 2540G SW-846 6010C SW-846 7471B	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010C

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Sodium

13E0754-01[S4], B073667-BS1, B073667-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0754

Date Received: 5/22/2013

Field Sample #: S4

Sample ID: 13E0754-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	23000	4.4	1.9	mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Antimony	ND	4.4		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Arsenic	14	4.4		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Barium	24	4.4		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Beryllium	ND	0.44		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Cadmium	1.5	0.44		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Calcium	9900	13		mg/Kg dry	1		SW-846 6010C	5/23/13	5/29/13 0:44	OP
Chromium	22	0.88		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Cobalt	30	4.4		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Copper	65	0.88		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Iron	59000	440		mg/Kg dry	100		SW-846 6010C	5/23/13	5/29/13 14:12	OP
Lead	20	1.3		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Magnesium	9000	13	1.4	mg/Kg dry	1		SW-846 6010C	5/23/13	5/29/13 0:44	OP
Manganese	1500	0.88		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Mercury	0.011	0.044	0.0028	mg/Kg dry	1	J	SW-846 7471B	5/23/13	5/24/13 12:10	SAJ
Nickel	43	0.88		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Potassium	680	180	30	mg/Kg dry	1		SW-846 6010C	5/23/13	5/29/13 0:44	OP
Selenium	ND	8.8		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Silver	ND	0.88		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Sodium	150	180	86	mg/Kg dry	1	L-06, J	SW-846 6010C	5/23/13	5/29/13 0:44	OP
Thallium	ND	4.4		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Vanadium	21	1.8		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP
Zinc	120	1.8		mg/Kg dry	1		SW-846 6010C	5/23/13	5/24/13 18:56	OP

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0754

Date Received: 5/22/2013

Field Sample #: S4

Sample ID: 13E0754-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.2		% Wt	1		SM 2540G	5/22/13	5/22/13 16:36	EW

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13E0754-01 [S4]	B073559	05/22/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0754-01 [S4]	B073667	1.03	50.0	05/23/13

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0754-01 [S4]	B073644	0.614	50.0	05/23/13

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073644 - SW-846 7471										
Blank (B073644-BLK1) Prepared: 05/23/13 Analyzed: 05/24/13										
Mercury	ND	0.025	mg/Kg wet							
LCS (B073644-BS1) Prepared: 05/23/13 Analyzed: 05/24/13										
Mercury	4.77	0.33	mg/Kg wet	4.05		118	71.6-128.1			
LCS Dup (B073644-BSD1) Prepared: 05/23/13 Analyzed: 05/24/13										
Mercury	4.09	0.33	mg/Kg wet	4.05		101	71.6-128.1	15.4	30	
Batch B073667 - SW-846 3050B										
Blank (B073667-BLK1) Prepared: 05/23/13 Analyzed: 05/24/13										
Aluminum	1.9	2.5	mg/Kg wet							J
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	0.83	7.5	mg/Kg wet							J
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	64	100	mg/Kg wet							J
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B073667-BS1) Prepared: 05/23/13 Analyzed: 05/24/13										
Aluminum	8550	5.0	mg/Kg wet	9060		94.4	46.1-153.4			
Antimony	105	5.0	mg/Kg wet	106		99.2	8.2-218.9			
Arsenic	189	5.0	mg/Kg wet	182		104	83-117.6			
Barium	146	5.0	mg/Kg wet	143		102	83.2-117.5			
Beryllium	106	0.50	mg/Kg wet	98.3		107	83.9-116			
Cadmium	65.6	0.50	mg/Kg wet	60.4		109	83.1-116.9			
Calcium	6320	15	mg/Kg wet	6040		105	83.1-116.7			
Chromium	132	0.99	mg/Kg wet	125		105	81.6-117.6			
Cobalt	171	5.0	mg/Kg wet	163		105	84.7-115.3			
Copper	86.8	0.99	mg/Kg wet	80.1		108	83.8-116.1			
Iron	12400	5.0	mg/Kg wet	12900		96.2	50.8-149.6			
Lead	129	1.5	mg/Kg wet	136		94.5	82.4-117.8			
Magnesium	2710	15	mg/Kg wet	2640		102	75.4-124.2			
Manganese	286	0.99	mg/Kg wet	279		103	82.8-117.5			
Nickel	134	0.99	mg/Kg wet	128		104	84.4-115.6			
Potassium	2880	200	mg/Kg wet	2820		102	72.7-127.3			
Selenium	89.6	9.9	mg/Kg wet	85.9		104	80-120			
Silver	59.8	0.99	mg/Kg wet	61.3		97.5	66.2-133.8			
Sodium	620	200	mg/Kg wet	439		141	* 73.8-126.2			L-06

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B073667 - SW-846 3050B										
LCS (B073667-BS1)										
					Prepared: 05/23/13 Analyzed: 05/24/13					
Thallium	148	5.0	mg/Kg wet	144		103	81.2-118.8			
Vanadium	112	2.0	mg/Kg wet	104		108	75.5-124			
Zinc	210	2.0	mg/Kg wet	204		103	81.9-117.6			
LCS Dup (B073667-BSD1)										
					Prepared: 05/23/13 Analyzed: 05/24/13					
Aluminum	8300	5.0	mg/Kg wet	9060		91.7	46.1-153.4	2.94	30	
Antimony	105	5.0	mg/Kg wet	106		99.0	8.2-218.9	0.283	30	
Arsenic	190	5.0	mg/Kg wet	182		104	83-117.6	0.174	30	
Barium	146	5.0	mg/Kg wet	143		102	83.2-117.5	0.208	30	
Beryllium	105	0.50	mg/Kg wet	98.3		107	83.9-116	0.746	30	
Cadmium	70.3	0.50	mg/Kg wet	60.4		116	83.1-116.9	7.00	30	
Calcium	6360	15	mg/Kg wet	6040		105	83.1-116.7	0.551	30	
Chromium	131	1.0	mg/Kg wet	125		104	81.6-117.6	0.988	30	
Cobalt	168	5.0	mg/Kg wet	163		103	84.7-115.3	1.86	30	
Copper	86.0	1.0	mg/Kg wet	80.1		107	83.8-116.1	0.925	30	
Iron	12400	5.0	mg/Kg wet	12900		95.7	50.8-149.6	0.466	30	
Lead	128	1.5	mg/Kg wet	136		94.1	82.4-117.8	0.481	30	
Magnesium	2670	15	mg/Kg wet	2640		101	75.4-124.2	1.26	30	
Manganese	291	1.0	mg/Kg wet	279		104	82.8-117.5	1.51	30	
Nickel	131	1.0	mg/Kg wet	128		102	84.4-115.6	1.92	30	
Potassium	2810	200	mg/Kg wet	2820		99.6	72.7-127.3	2.46	30	
Selenium	96.7	10	mg/Kg wet	85.9		113	80-120	7.68	30	
Silver	59.7	1.0	mg/Kg wet	61.3		97.3	66.2-133.8	0.238	30	
Sodium	579	200	mg/Kg wet	439		132	* 73.8-126.2	6.84	30	L-06
Thallium	147	5.0	mg/Kg wet	144		102	81.2-118.8	0.598	30	
Vanadium	110	2.0	mg/Kg wet	104		106	75.5-124	1.22	30	
Zinc	204	2.0	mg/Kg wet	204		100	81.9-117.6	2.80	30	
MRL Check (B073667-MRL1)										
					Prepared: 05/23/13 Analyzed: 05/24/13					
Lead	0.745	0.69	mg/Kg wet	0.691		108	80-120			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
 - L-06 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
 - MS-19 Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Aluminum	CT,NH,NY,ME,VA
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Barium	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Calcium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Cobalt	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Magnesium	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Sodium	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Vanadium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA

SW-846 7470A in Water

Mercury	CT,NH,NY,NC,ME,VA
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SW-846 7471B in Soil

Mercury	CT,NH,NY,NC,ME,VA
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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

Company Name: FALCON ENGINEERING
Address: 1212 BURNINGB, STE 116
Attention: SOSAD DURAR
Project # 919-871-0866
Telephone: 919-871-0866

Client PO# DATA DELIVERY (check all that apply)
 FAX EMAIL OVERSITE
 Project Location: CHAPEL HILL
 Sampled By: S. APPE / S. BURNING
 Email: SDURAR@FALCONENGINEERING.COM
 Project Proposal Provided? (for billing purposes)
 yes no

Project # 919-871-0866
 Client PO# DATA DELIVERY (check all that apply)
 FAX EMAIL OVERSITE
 Project Location: CHAPEL HILL
 Sampled By: S. APPE / S. BURNING
 Email: SDURAR@FALCONENGINEERING.COM
 Project Proposal Provided? (for billing purposes)
 yes no

Con-Test Lab ID <small>(Necessity: use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	Matrix Code	Conc Code	Analysis Requested	# of Containers	** Preservation	*** Container Code	Dissolved Metals
		Beginning Date/Time	Ending Date/Time									
01-01-34		2:08 PM	2:15 PM					GRO				
		11:45 AM	11:50 AM					DRO				
								8260				
								8270/EPH				
								VPH				
								Added 5/12/13 TAL 23M HALL Mtd 6/22/13				

Comments: PERSON GRODRO, HOLD REMAINING FOR RESULTS
5/12/13 - CHAPEL HILL, 9260, 8270 ANALYSIS
 H - High; M - Medium; L - Low; C - Clean; U - Unknown
 Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

Turnaround Time (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

Turnaround 5-Day
 5-7 Day
 10 Day
 RUSH*
 *24-Hr / *48-Hr
 *72-Hr / *4-Day

Requires Lab Approval

Detection Limit Requirements
 North Carolina
 2L
 GWPC
 SWSL
 OTHER

Program Information
 DSCA
 MSB Orphaned Landfill
 SWS Landfill
 UST
 REC
 Other

ACCREDITED IN ACCORDANCE WITH

 NELAC & AIHA Certified
 WBE/DBE Certified

135096
1350754
CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



802631889500

Ship (P/U) date:
Mon 4/29/2013 6:33 pm
RAL US



Delivered

Signed for by: C. COLLINS

Actual delivery:
Tues 4/30/2013 9:58 am
MA US

Travel History

Date/Time	Activity	Location
- 4/30/2013 - Tuesday		
9:58 am	Delivered	MA
8:26 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:32 am	At local FedEx facility	WINDSOR LOCKS, CT
6:32 am	At destination sort facility	EAST GRANBY, CT
4:52 am	Departed FedEx location	INDIANAPOLIS, IN
12:01 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 4/29/2013 - Monday		
8:35 pm	Left FedEx origin facility	RALEIGH, NC
6:33 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

Local Scan Time

Shipment Facts

Tracking number	802631889500	Service	FedEx Priority Overnight
Dimensions	18x11x15 in.	Delivered To	Shipping/Receiving
Total pieces	1	Packaging	Your Packaging
Special handling section	Deliver Weekday		

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Falcon Eng. RECEIVED BY: CFC DATE: 4/30/13

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC included
- 2) Does the chain agree with the samples? Yes No
If not, explain:
- 3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1°C

5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> clear jar	<u>4</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>2</u>
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>10</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 6
 Doc# 277 # Bisulfate 4 # DI Water _____
 Rev. 3 May 2012 # Thiosulfate _____ Unpreserved _____
 Time and Date Frozen: _____

May 20, 2013

Josh Dunbar
Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607

Project Location: Chapel Hill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13E0396

Enclosed are results of analyses for samples received by the laboratory on May 13, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager

Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607
ATTN: Josh Dunbar

REPORT DATE: 5/20/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13E0396

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chapel Hill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
S4	13E0396-01	Soil		MADEP-EPH-04-1.1 MADEP-VPH-04-1.1 SM 2540G SW-846 8260B SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

MADEP-VPH-04-1.1**Qualifications:**

Soil/methanol ratio does not meet method specifications. Insufficient amount of soil. Data validation is not affected since a sufficient amount of preservative is present. Detection limits may be above useful levels.

Analyte & Samples(s) Qualified:

13E0396-01[S4]

SW-846 8260B**Qualifications:**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Acetone**

B072887-BS1, B072887-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Bromoform**

13E0396-01[S4], 13E0396-01RE1[S4], B072887-BLK1, B072887-BS1, B072887-BSD1

Surrogate recovery outside of control limits due to suspected sample matrix interference.

Analyte & Samples(s) Qualified:**1,2-Dichloroethane-d4, 4-Bromofluorobenzene**

13E0396-01[S4], 13E0396-01RE1[S4]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene, Bromoform, Naphthalene**

13E0396-01[S4], 13E0396-01RE1[S4], B072887-BLK1, B072887-BS1, B072887-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane, tert-Butyl Alcohol (TBA)**

13E0396-01[S4], 13E0396-01RE1[S4], B072887-BLK1, B072887-BS1, B072887-BSD1

Internal standard area <50% of associated calibration standard internal standard area.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,2-Dichlorobenzene, 1,3,5-Trichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,4-Dichlorobenzene-d4, Hexachlorobutadiene, Naphthalene, n-Butylbenzene, p-Isopropyltoluene (p-Cymene), sec-Butylbenzene, tert-Butylbenzene

13E0396-01[S4], 13E0396-01RE1[S4]

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Acetone

B072887-BS1, B072887-BSD1

SW-846 8270D

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Benzoic Acid

B072855-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Benzoic Acid, Di-n-octylphthalate, Fluoranthene, Indeno(1,2,3-cd)pyrene

13E0396-01[S4], B072855-BLK1, B072855-BS1, B072855-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

Benzidine

13E0396-01[S4], B072855-BLK1, B072855-BS1, B072855-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 4-Nitroaniline, 4-Nitrophenol

B072855-BLK1, B072855-BS1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Benzidine

B072855-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

13E0396-01[S4], B072855-BLK1, B072855-BS1, B072855-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

Benzoic Acid

13E0396-01[S4], B072855-BLK1, B072855-BS1, B072855-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Benzidine

13E0396-01[S4]

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.25	0.059	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Acetone	ND	0.25	0.057	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Acrylonitrile	ND	0.015	0.0063	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Acrylonitrile	ND	0.015	0.0061	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Benzene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Benzene	ND	0.0049	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Bromobenzene	ND	0.0050	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Bromobenzene	ND	0.0049	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Bromochloromethane	ND	0.0050	0.0035	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Bromochloromethane	ND	0.0049	0.0034	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Bromodichloromethane	ND	0.0050	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Bromodichloromethane	ND	0.0049	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Bromoform	ND	0.0050	0.0035	mg/Kg dry	1	L-04, V-05	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Bromoform	ND	0.0049	0.0034	mg/Kg dry	1	L-04, V-05	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Bromomethane	ND	0.025	0.0043	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Bromomethane	ND	0.025	0.0042	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
2-Butanone (MEK)	ND	0.10	0.044	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
2-Butanone (MEK)	ND	0.098	0.043	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
tert-Butyl Alcohol (TBA)	ND	0.10	0.052	mg/Kg dry	1	V-16	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
tert-Butyl Alcohol (TBA)	ND	0.098	0.051	mg/Kg dry	1	V-16	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
n-Butylbenzene	ND	0.0050	0.0018	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
n-Butylbenzene	ND	0.0049	0.0017	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
sec-Butylbenzene	ND	0.0050	0.0025	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
sec-Butylbenzene	ND	0.0049	0.0025	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
tert-Butylbenzene	ND	0.0050	0.0023	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
tert-Butylbenzene	ND	0.0049	0.0022	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Carbon Disulfide	ND	0.015	0.0083	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Carbon Disulfide	ND	0.015	0.0081	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Carbon Tetrachloride	ND	0.0050	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Carbon Tetrachloride	ND	0.0049	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Chlorobenzene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Chlorobenzene	ND	0.0049	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Chlorodibromomethane	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Chlorodibromomethane	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Chloroethane	ND	0.050	0.0038	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Chloroethane	ND	0.049	0.0037	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Chloroform	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Chloroform	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Chloromethane	ND	0.025	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Chloromethane	ND	0.025	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Chlorotoluene	ND	0.0050	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
2-Chlorotoluene	ND	0.0049	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
4-Chlorotoluene	ND	0.0050	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
4-Chlorotoluene	ND	0.0049	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0050	0.0028	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0049	0.0027	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2-Dibromoethane (EDB)	ND	0.0025	0.0025	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2-Dibromoethane (EDB)	ND	0.0025	0.0025	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Dibromomethane	ND	0.0050	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Dibromomethane	ND	0.0049	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2-Dichlorobenzene	ND	0.0050	0.0018	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2-Dichlorobenzene	ND	0.0049	0.0017	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,3-Dichlorobenzene	ND	0.0050	0.0018	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,3-Dichlorobenzene	ND	0.0049	0.0017	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,4-Dichlorobenzene	ND	0.0050	0.0020	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,4-Dichlorobenzene	ND	0.0049	0.0020	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
trans-1,4-Dichloro-2-butene	ND	0.010	0.0030	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
trans-1,4-Dichloro-2-butene	ND	0.0098	0.0029	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.050	0.0033	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.049	0.0032	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1-Dichloroethane	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,1-Dichloroethane	ND	0.0049	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2-Dichloroethane	ND	0.0050	0.0033	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2-Dichloroethane	ND	0.0049	0.0032	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1-Dichloroethylene	ND	0.010	0.0028	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,1-Dichloroethylene	ND	0.0098	0.0027	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
cis-1,2-Dichloroethylene	ND	0.0050	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
cis-1,2-Dichloroethylene	ND	0.0049	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
trans-1,2-Dichloroethylene	ND	0.0050	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
trans-1,2-Dichloroethylene	ND	0.0049	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2-Dichloropropane	ND	0.0050	0.0033	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2-Dichloropropane	ND	0.0049	0.0032	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,3-Dichloropropane	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,3-Dichloropropane	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
2,2-Dichloropropane	ND	0.0050	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
2,2-Dichloropropane	ND	0.0049	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1-Dichloropropene	ND	0.0050	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,1-Dichloropropene	ND	0.0049	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
cis-1,3-Dichloropropene	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
cis-1,3-Dichloropropene	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
trans-1,3-Dichloropropene	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
trans-1,3-Dichloropropene	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Diethyl Ether	ND	0.050	0.0045	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Diethyl Ether	ND	0.049	0.0044	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Diisopropyl Ether (DIPE)	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,4-Dioxane	ND	0.25	0.14	mg/Kg dry	1	V-16	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,4-Dioxane	ND	0.25	0.14	mg/Kg dry	1	V-16	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Ethylbenzene	ND	0.0050	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Ethylbenzene	ND	0.0049	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Hexachlorobutadiene	ND	0.0050	0.0025	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Hexachlorobutadiene	ND	0.0049	0.0025	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
2-Hexanone (MBK)	ND	0.050	0.027	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
2-Hexanone (MBK)	ND	0.049	0.027	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Isopropylbenzene (Cumene)	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Isopropylbenzene (Cumene)	ND	0.0049	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0050	0.0020	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0049	0.0020	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.010	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0098	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Methylene Chloride	ND	0.050	0.018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Methylene Chloride	ND	0.049	0.017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.050	0.019	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.049	0.019	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Naphthalene	ND	0.010	0.0018	mg/Kg dry	1	V-05, V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Naphthalene	ND	0.0098	0.0017	mg/Kg dry	1	V-05, V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
n-Propylbenzene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
n-Propylbenzene	ND	0.0049	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Styrene	ND	0.0050	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Styrene	ND	0.0049	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1,1,2-Tetrachloroethane	ND	0.0050	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,1,1,2-Tetrachloroethane	ND	0.0049	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.0025	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.0025	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Tetrachloroethylene	ND	0.0050	0.0033	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Tetrachloroethylene	ND	0.0049	0.0032	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Tetrahydrofuran	ND	0.025	0.0055	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Tetrahydrofuran	ND	0.025	0.0054	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Toluene	ND	0.0050	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Toluene	ND	0.0049	0.0020	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2,3-Trichlorobenzene	ND	0.0050	0.0015	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2,3-Trichlorobenzene	ND	0.0049	0.0015	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2,4-Trichlorobenzene	ND	0.0050	0.0020	mg/Kg dry	1	V-05, V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2,4-Trichlorobenzene	ND	0.0049	0.0020	mg/Kg dry	1	V-05, V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,3,5-Trichlorobenzene	ND	0.0050	0.0018	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,3,5-Trichlorobenzene	ND	0.0049	0.0017	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1,1-Trichloroethane	ND	0.0050	0.0025	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0049	0.0025	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1,2-Trichloroethane	ND	0.0050	0.0030	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,1,2-Trichloroethane	ND	0.0049	0.0029	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Trichloroethylene	ND	0.0050	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Trichloroethylene	ND	0.0049	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.025	0.0028	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.025	0.0027	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2,3-Trichloropropane	ND	0.0050	0.0028	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2,3-Trichloropropane	ND	0.0049	0.0027	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025	0.0023	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025	0.0022	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,2,4-Trimethylbenzene	ND	0.0050	0.0020	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,2,4-Trimethylbenzene	ND	0.0049	0.0020	mg/Kg dry	1	V-17	SW-846 8260B	5/13/13	5/13/13 14:53	MFF
1,3,5-Trimethylbenzene	ND	0.0050	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
1,3,5-Trimethylbenzene	ND	0.0049	0.0015	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
Vinyl Chloride	ND	0.025	0.0028	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
Vinyl Chloride	ND	0.025	0.0027	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
m+p Xylene	ND	0.010	0.0043	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
m+p Xylene	ND	0.0098	0.0042	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF
o-Xylene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 13:05	MFF
o-Xylene	ND	0.0049	0.0017	mg/Kg dry	1		SW-846 8260B	5/13/13	5/13/13 14:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	132 *	70-130	S-03
1,2-Dichloroethane-d4	121	70-130	
Toluene-d8	96.0	70-130	
Toluene-d8	94.8	70-130	
4-Bromofluorobenzene	51.6 *	70-130	S-03
4-Bromofluorobenzene	47.0 *	70-130	S-03

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Acenaphthylene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Acetophenone	ND	0.62	0.22	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Aniline	ND	0.62	0.20	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Anthracene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Benzidine	ND	0.62	0.14	mg/Kg dry	1	V-04, V-20	SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Benzo(a)anthracene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Benzo(a)pyrene	ND	0.31	0.16	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Benzo(b)fluoranthene	ND	0.31	0.16	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Benzo(g,h,i)perylene	ND	0.31	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Benzo(k)fluoranthene	ND	0.31	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Benzoic Acid	0.39	1.8	0.27	mg/Kg dry	1	R-05, V-19, J	SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Bis(2-chloroethoxy)methane	ND	0.62	0.16	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Bis(2-chloroethyl)ether	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Bis(2-chloroisopropyl)ether	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
4-Bromophenylphenylether	ND	0.62	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Butylbenzylphthalate	ND	1.2	0.20	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Carbazole	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
4-Chloroaniline	ND	1.2	0.16	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
4-Chloro-3-methylphenol	ND	1.2	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2-Chloronaphthalene	ND	0.62	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2-Chlorophenol	ND	0.62	0.16	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
4-Chlorophenylphenylether	ND	0.62	0.22	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Chrysene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Dibenz(a,h)anthracene	ND	0.31	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Dibenzofuran	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Di-n-butylphthalate	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
1,2-Dichlorobenzene	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
1,3-Dichlorobenzene	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
1,4-Dichlorobenzene	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
3,3-Dichlorobenzidine	ND	0.31	0.11	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2,4-Dichlorophenol	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Diethylphthalate	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2,4-Dimethylphenol	ND	0.62	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Dimethylphthalate	ND	1.2	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
4,6-Dinitro-2-methylphenol	ND	0.62	0.072	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2,4-Dinitrophenol	ND	1.2	0.072	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2,4-Dinitrotoluene	ND	0.62	0.20	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2,6-Dinitrotoluene	ND	0.62	0.20	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Di-n-octylphthalate	ND	1.2	0.24	mg/Kg dry	1	R-05	SW-846 8270D	5/13/13	5/14/13 17:18	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Fluoranthene	ND	0.31	0.13	mg/Kg dry	1	R-05	SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Fluorene	ND	0.31	0.16	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Hexachlorobutadiene	ND	0.62	0.11	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Hexachlorocyclopentadiene	ND	1.2	0.11	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Hexachloroethane	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Indeno(1,2,3-cd)pyrene	ND	0.31	0.13	mg/Kg dry	1	R-05	SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Isophorone	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
1-Methylnaphthalene	ND	0.31	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2-Methylnaphthalene	ND	0.31	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2-Methylphenol	ND	0.62	0.24	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
3/4-Methylphenol	ND	0.62	0.29	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Naphthalene	ND	0.31	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2-Nitroaniline	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
3-Nitroaniline	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
4-Nitroaniline	ND	0.62	0.22	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Nitrobenzene	ND	0.62	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2-Nitrophenol	ND	0.62	0.091	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
4-Nitrophenol	ND	1.2	0.072	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
N-Nitrosodimethylamine	ND	0.62	0.11	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
N-Nitrosodiphenylamine	ND	0.62	0.20	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
N-Nitrosodi-n-propylamine	ND	0.62	0.24	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Pentachloronitrobenzene	ND	0.62	0.20	mg/Kg dry	1	V-16	SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Pentachlorophenol	ND	0.62	0.11	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Phenanthrene	ND	0.31	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Phenol	ND	0.62	0.16	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Pyrene	ND	0.31	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
Pyridine	ND	0.62	0.14	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.62	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
1,2,4-Trichlorobenzene	ND	0.62	0.11	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2,4,5-Trichlorophenol	ND	0.62	0.18	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR
2,4,6-Trichlorophenol	ND	0.62	0.13	mg/Kg dry	1		SW-846 8270D	5/13/13	5/14/13 17:18	CMR

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	42.0	30-130	5/14/13 17:18
Phenol-d6	48.4	30-130	5/14/13 17:18
Nitrobenzene-d5	66.4	30-130	5/14/13 17:18
2-Fluorobiphenyl	83.4	30-130	5/14/13 17:18
2,4,6-Tribromophenol	30.8	30-130	5/14/13 17:18
p-Terphenyl-d14	63.1	30-130	5/14/13 17:18



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
C19-C36 Aliphatics	ND	18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Unadjusted C11-C22 Aromatics	ND	18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
C11-C22 Aromatics	ND	18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Acenaphthene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Acenaphthylene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Anthracene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Chrysene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Fluoranthene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Fluorene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Naphthalene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Phenanthrene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS
Pyrene	ND	0.18	mg/Kg dry	1		MADEP-EPH-04-1.1	5/13/13	5/13/13 17:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag
Chlorooctadecane (COD)	57.0	40-140	
o-Terphenyl (OTP)	49.1	40-140	
2-Bromonaphthalene	81.1	40-140	
2-Fluorobiphenyl	84.3	40-140	

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Sample Flags: O-02

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.28

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	73	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
C5-C8 Aliphatics	ND	73	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
Unadjusted C9-C12 Aliphatics	ND	73	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
C9-C12 Aliphatics	ND	73	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
C9-C10 Aromatics	ND	73	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
Benzene	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
Ethylbenzene	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
Naphthalene	ND	1.8	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
Toluene	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
m+p Xylene	ND	0.73	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
o-Xylene	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	5/13/13	5/13/13 13:59	EEH
Surrogates		% Recovery	Recovery Limits		Flag				
2,5-Dibromotoluene (FID)		110	70-130					5/13/13 13:59	
2,5-Dibromotoluene (PID)		97.4	70-130					5/13/13 13:59	

Project Location: Chapel Hill

Sample Description:

Work Order: 13E0396

Date Received: 5/13/2013

Field Sample #: S4

Sample ID: 13E0396-01

Start Date/Time: 4/29/2013 11:45:00AM

Sample Matrix: Soil

Stop Date/Time: 4/29/2013 11:50:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.2		% Wt	1		SM 2540G	5/14/13	5/14/13 13:40	EW

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0396-01 [S4]	B072854	20.0	2.00	05/13/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0396-01 [S4]	B072883	4.20	16.9	05/13/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13E0396-01 [S4]	B072992	05/14/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0396-01 [S4]	B072887	3.62	10.0	05/13/13
13E0396-01RE1 [S4]	B072887	3.69	10.0	05/13/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13E0396-01 [S4]	B072855	30.0	1.00	05/13/13

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072887 - SW-846 5035

Blank (B072887-BLK1)

Prepared & Analyzed: 05/13/13

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							L-04, V-05
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072887 - SW-846 5035

Blank (B072887-BLK1)

Prepared & Analyzed: 05/13/13

Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							V-05
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							V-05
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0582		mg/Kg wet	0.0500		116	70-130			
Surrogate: Toluene-d8	0.0512		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0450		mg/Kg wet	0.0500		90.0	70-130			

LCS (B072887-BS1)

Prepared & Analyzed: 05/13/13

Acetone	0.377	0.10	mg/Kg wet	0.200		188 *	70-160			L-02, V-20 †
Acrylonitrile	0.0212	0.0060	mg/Kg wet	0.0200		106	70-130			
tert-Amyl Methyl Ether (TAME)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Bromochloromethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
Bromoform	0.0126	0.0020	mg/Kg wet	0.0200		63.2 *	70-130			V-05, L-04
Bromomethane	0.0115	0.010	mg/Kg wet	0.0200		57.3	40-130			†
2-Butanone (MEK)	0.272	0.040	mg/Kg wet	0.200		136	70-160			†
tert-Butyl Alcohol (TBA)	0.165	0.040	mg/Kg wet	0.200		82.7	40-130			V-16 †
n-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
sec-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Carbon Disulfide	0.0225	0.0060	mg/Kg wet	0.0200		112	70-130			
Carbon Tetrachloride	0.0174	0.0020	mg/Kg wet	0.0200		86.9	70-130			
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Chlorodibromomethane	0.0167	0.0010	mg/Kg wet	0.0200		83.4	70-130			
Chloroethane	0.0217	0.020	mg/Kg wet	0.0200		108	70-130			
Chloroform	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0189	0.010	mg/Kg wet	0.0200		94.3	70-130			
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072887 - SW-846 5035										
LCS (B072887-BS1)										
Prepared & Analyzed: 05/13/13										
4-Chlorotoluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0164	0.0020	mg/Kg wet	0.0200		82.0	70-130			
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
trans-1,4-Dichloro-2-butene	0.0152	0.0040	mg/Kg wet	0.0200		75.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0156	0.020	mg/Kg wet	0.0200		78.1	40-160			J †
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
1,1-Dichloroethylene	0.0221	0.0040	mg/Kg wet	0.0200		110	70-130			
cis-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
trans-1,2-Dichloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3-Dichloropropane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1-Dichloropropene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
cis-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.5	70-130			
trans-1,3-Dichloropropene	0.0187	0.0010	mg/Kg wet	0.0200		93.6	70-130			
Diethyl Ether	0.0206	0.020	mg/Kg wet	0.0200		103	70-130			
Diisopropyl Ether (DIPE)	0.0237	0.0010	mg/Kg wet	0.0200		118	70-130			
1,4-Dioxane	0.219	0.10	mg/Kg wet	0.200		110	40-160			V-16 †
Ethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Hexachlorobutadiene	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-160			
2-Hexanone (MBK)	0.226	0.020	mg/Kg wet	0.200		113	70-160			†
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
p-Isopropyltoluene (p-Cymene)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130			
Methylene Chloride	0.0225	0.020	mg/Kg wet	0.0200		113	40-160			†
4-Methyl-2-pentanone (MIBK)	0.210	0.020	mg/Kg wet	0.200		105	70-160			†
Naphthalene	0.0140	0.0040	mg/Kg wet	0.0200		70.0	40-130			V-05 †
n-Propylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
1,1,1,2-Tetrachloroethane	0.0163	0.0020	mg/Kg wet	0.0200		81.7	70-130			
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.4	70-130			
Tetrachloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Tetrahydrofuran	0.0235	0.010	mg/Kg wet	0.0200		117	70-130			
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0154	0.0020	mg/Kg wet	0.0200		76.9	70-130			
1,2,4-Trichlorobenzene	0.0149	0.0020	mg/Kg wet	0.0200		74.5	70-130			V-05
1,3,5-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130			
1,1,1-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,1,2-Trichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Trichlorofluoromethane (Freon 11)	0.0229	0.010	mg/Kg wet	0.0200		114	70-130			
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0247	0.010	mg/Kg wet	0.0200		124	70-130			
1,2,4-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		96.0	40-130			†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072887 - SW-846 5035

LCS (B072887-BS1)

Prepared & Analyzed: 05/13/13

m+p Xylene	0.0406	0.0040	mg/Kg wet	0.0400		101	70-130			
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0578		mg/Kg wet	0.0500		116	70-130			
Surrogate: Toluene-d8	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0475		mg/Kg wet	0.0500		95.0	70-130			

LCS Dup (B072887-BSD1)

Prepared & Analyzed: 05/13/13

Acetone	0.383	0.10	mg/Kg wet	0.200		192 *	70-160	1.74	25	L-02, V-20 †
Acrylonitrile	0.0215	0.0060	mg/Kg wet	0.0200		108	70-130	1.50	25	
tert-Amyl Methyl Ether (TAME)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	2.42	25	
Benzene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	4.43	25	
Bromobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	2.45	25	
Bromochloromethane	0.0245	0.0020	mg/Kg wet	0.0200		122	70-130	2.81	25	
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	0.317	25	
Bromoform	0.0127	0.0020	mg/Kg wet	0.0200		63.5 *	70-130	0.474	25	L-04, V-05
Bromomethane	0.0144	0.010	mg/Kg wet	0.0200		72.0	40-130	22.7	25	†
2-Butanone (MEK)	0.271	0.040	mg/Kg wet	0.200		136	70-160	0.346	25	†
tert-Butyl Alcohol (TBA)	0.168	0.040	mg/Kg wet	0.200		84.0	40-130	1.60	25	V-16 †
n-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.43	25	
sec-Butylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	1.85	25	
tert-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-160	1.87	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0221	0.0010	mg/Kg wet	0.0200		111	70-130	3.59	25	
Carbon Disulfide	0.0241	0.0060	mg/Kg wet	0.0200		121	70-130	7.04	25	
Carbon Tetrachloride	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130	4.17	25	
Chlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.29	25	
Chlorodibromomethane	0.0171	0.0010	mg/Kg wet	0.0200		85.6	70-130	2.60	25	
Chloroethane	0.0227	0.020	mg/Kg wet	0.0200		114	70-130	4.77	25	
Chloroform	0.0227	0.0040	mg/Kg wet	0.0200		114	70-130	3.40	25	
Chloromethane	0.0203	0.010	mg/Kg wet	0.0200		101	70-130	7.16	25	
2-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	2.54	25	
4-Chlorotoluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.76	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130	1.57	25	
1,2-Dibromoethane (EDB)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	0.976	25	
Dibromomethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.68	25	
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	3.00	25	
1,3-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	2.54	25	
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	1.43	25	
trans-1,4-Dichloro-2-butene	0.0156	0.0040	mg/Kg wet	0.0200		78.1	70-130	2.86	25	
Dichlorodifluoromethane (Freon 12)	0.0164	0.020	mg/Kg wet	0.0200		82.1	40-160	4.99	25	J †
1,1-Dichloroethane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	4.86	25	
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	0.998	25	
1,1-Dichloroethylene	0.0234	0.0040	mg/Kg wet	0.0200		117	70-130	5.80	25	
cis-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.90	25	
trans-1,2-Dichloroethylene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	8.13	25	
1,2-Dichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.52	25	
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	1.11	25	
2,2-Dichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	3.75	25	
1,1-Dichloropropene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	3.92	25	
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.5	70-130	1.10	25	
trans-1,3-Dichloropropene	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130	2.11	25	
Diethyl Ether	0.0223	0.020	mg/Kg wet	0.0200		111	70-130	7.55	25	
Diisopropyl Ether (DIPE)	0.0247	0.0010	mg/Kg wet	0.0200		124	70-130	4.13	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072887 - SW-846 5035										
LCS Dup (B072887-BSD1)										
Prepared & Analyzed: 05/13/13										
1,4-Dioxane	0.212	0.10	mg/Kg wet	0.200		106	40-160	3.44	50	V-16 † ‡
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	0.998	25	
Hexachlorobutadiene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-160	1.63	25	
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114	70-160	0.617	25	†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.53	25	
p-Isopropyltoluene (p-Cymene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.97	25	
Methyl tert-Butyl Ether (MTBE)	0.0237	0.0040	mg/Kg wet	0.0200		119	70-130	4.74	25	
Methylene Chloride	0.0236	0.020	mg/Kg wet	0.0200		118	40-160	4.77	25	†
4-Methyl-2-pentanone (MIBK)	0.215	0.020	mg/Kg wet	0.200		108	70-160	2.65	25	†
Naphthalene	0.0142	0.0040	mg/Kg wet	0.0200		71.2	40-130	1.70	25	V-05 †
n-Propylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	2.40	25	
Styrene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.43	25	
1,1,1,2-Tetrachloroethane	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130	1.70	25	
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130	1.77	25	
Tetrachloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.74	25	
Tetrahydrofuran	0.0259	0.010	mg/Kg wet	0.0200		130	70-130	9.96	25	
Toluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.60	25	
1,2,3-Trichlorobenzene	0.0155	0.0020	mg/Kg wet	0.0200		77.3	70-130	0.519	25	
1,2,4-Trichlorobenzene	0.0150	0.0020	mg/Kg wet	0.0200		75.1	70-130	0.802	25	V-05
1,3,5-Trichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130	0.784	25	
1,1,1-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.10	25	
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.35	25	
Trichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.49	25	
Trichlorofluoromethane (Freon 11)	0.0243	0.010	mg/Kg wet	0.0200		121	70-130	6.02	25	
1,2,3-Trichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.71	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0257	0.010	mg/Kg wet	0.0200		129	70-130	4.04	25	
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.960	25	
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	1.90	25	
Vinyl Chloride	0.0203	0.010	mg/Kg wet	0.0200		101	40-130	5.47	25	†
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130	0.884	25	
o-Xylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.47	25	
Surrogate: 1,2-Dichloroethane-d4	0.0573		mg/Kg wet	0.0500		115	70-130			
Surrogate: Toluene-d8	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0479		mg/Kg wet	0.0500		95.9	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072855 - SW-846 3546

Blank (B072855-BLK1)

Prepared & Analyzed: 05/13/13

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.34	mg/Kg wet							V-04
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							R-05, V-19
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.66	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.66	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							R-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							R-05
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.66	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							R-05
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072855 - SW-846 3546

Blank (B072855-BLK1)

Prepared & Analyzed: 05/13/13

2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							V-05
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							

Surrogate: 2-Fluorophenol	6.81		mg/Kg wet	6.67		102	30-130			
Surrogate: Phenol-d6	6.82		mg/Kg wet	6.67		102	30-130			
Surrogate: Nitrobenzene-d5	3.20		mg/Kg wet	3.33		95.9	30-130			
Surrogate: 2-Fluorobiphenyl	3.17		mg/Kg wet	3.33		95.0	30-130			
Surrogate: 2,4,6-Tribromophenol	7.21		mg/Kg wet	6.67		108	30-130			
Surrogate: p-Terphenyl-d14	3.21		mg/Kg wet	3.33		96.2	30-130			

LCS (B072855-BS1)

Prepared & Analyzed: 05/13/13

Acenaphthene	1.71	0.17	mg/Kg wet	1.67		103	40-140			
Acenaphthylene	1.73	0.17	mg/Kg wet	1.67		104	40-140			
Acetophenone	1.64	0.34	mg/Kg wet	1.67		98.5	40-140			
Aniline	1.52	0.34	mg/Kg wet	1.67		91.5	10-140			†
Anthracene	1.87	0.17	mg/Kg wet	1.67		112	40-140			
Benzidine	1.44	0.34	mg/Kg wet	1.67		86.5	40-140			V-04
Benzo(a)anthracene	1.86	0.17	mg/Kg wet	1.67		112	40-140			
Benzo(a)pyrene	1.85	0.17	mg/Kg wet	1.67		111	40-140			
Benzo(b)fluoranthene	1.86	0.17	mg/Kg wet	1.67		111	40-140			
Benzo(g,h,i)perylene	1.58	0.17	mg/Kg wet	1.67		94.5	40-140			
Benzo(k)fluoranthene	1.84	0.17	mg/Kg wet	1.67		110	40-140			
Benzoic Acid	0.733	1.0	mg/Kg wet	1.67		44.0	30-130			J, R-05, V-19
Bis(2-chloroethoxy)methane	1.72	0.34	mg/Kg wet	1.67		103	40-140			
Bis(2-chloroethyl)ether	1.58	0.34	mg/Kg wet	1.67		94.6	40-140			
Bis(2-chloroisopropyl)ether	1.56	0.34	mg/Kg wet	1.67		93.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.87	0.34	mg/Kg wet	1.67		112	40-140			
4-Bromophenylphenylether	1.80	0.34	mg/Kg wet	1.67		108	40-140			
Butylbenzylphthalate	1.83	0.66	mg/Kg wet	1.67		110	40-140			
Carbazole	1.96	0.17	mg/Kg wet	1.67		118	40-140			
4-Chloroaniline	1.59	0.66	mg/Kg wet	1.67		95.2	10-140			†
4-Chloro-3-methylphenol	1.77	0.66	mg/Kg wet	1.67		106	30-130			
2-Chloronaphthalene	1.51	0.34	mg/Kg wet	1.67		90.6	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072855 - SW-846 3546										
LCS (B072855-BS1)										
Prepared & Analyzed: 05/13/13										
2-Chlorophenol	1.77	0.34	mg/Kg wet	1.67		106	30-130			
4-Chlorophenylphenylether	1.72	0.34	mg/Kg wet	1.67		103	40-140			
Chrysene	1.80	0.17	mg/Kg wet	1.67		108	40-140			
Dibenz(a,h)anthracene	1.61	0.17	mg/Kg wet	1.67		96.8	40-140			
Dibenzofuran	1.73	0.34	mg/Kg wet	1.67		104	40-140			
Di-n-butylphthalate	1.87	0.34	mg/Kg wet	1.67		112	40-140			
1,2-Dichlorobenzene	1.54	0.34	mg/Kg wet	1.67		92.5	40-140			
1,3-Dichlorobenzene	1.52	0.34	mg/Kg wet	1.67		91.0	40-140			
1,4-Dichlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.6	40-140			
3,3-Dichlorobenzidine	1.45	0.17	mg/Kg wet	1.67		87.1	20-140			†
2,4-Dichlorophenol	1.78	0.34	mg/Kg wet	1.67		107	30-130			
Diethylphthalate	1.74	0.34	mg/Kg wet	1.67		104	40-140			
2,4-Dimethylphenol	1.78	0.34	mg/Kg wet	1.67		107	30-130			
Dimethylphthalate	1.72	0.66	mg/Kg wet	1.67		103	40-140			
4,6-Dinitro-2-methylphenol	1.66	0.34	mg/Kg wet	1.67		99.6	30-130			
2,4-Dinitrophenol	1.25	0.66	mg/Kg wet	1.67		75.0	30-130			V-05
2,4-Dinitrotoluene	1.90	0.34	mg/Kg wet	1.67		114	40-140			
2,6-Dinitrotoluene	1.88	0.34	mg/Kg wet	1.67		113	40-140			
Di-n-octylphthalate	1.97	0.66	mg/Kg wet	1.67		118	40-140			R-05
1,2-Diphenylhydrazine (as Azobenzene)	1.86	0.34	mg/Kg wet	1.67		112	40-140			
Fluoranthene	2.02	0.17	mg/Kg wet	1.67		121	40-140			R-05
Fluorene	1.75	0.17	mg/Kg wet	1.67		105	40-140			
Hexachlorobenzene	1.72	0.34	mg/Kg wet	1.67		103	40-140			
Hexachlorobutadiene	1.55	0.34	mg/Kg wet	1.67		93.3	40-140			
Hexachlorocyclopentadiene	1.55	0.66	mg/Kg wet	1.67		93.2	40-140			
Hexachloroethane	1.56	0.34	mg/Kg wet	1.67		93.5	40-140			
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.6	40-140			R-05
Isophorone	1.59	0.34	mg/Kg wet	1.67		95.5	40-140			
1-Methylnaphthalene	1.58	0.17	mg/Kg wet	1.67		94.7	40-140			
2-Methylnaphthalene	1.52	0.17	mg/Kg wet	1.67		91.1	40-140			
2-Methylphenol	1.70	0.34	mg/Kg wet	1.67		102	30-130			
3/4-Methylphenol	1.57	0.34	mg/Kg wet	1.67		93.9	30-130			
Naphthalene	1.54	0.17	mg/Kg wet	1.67		92.7	40-140			
2-Nitroaniline	1.80	0.34	mg/Kg wet	1.67		108	40-140			
3-Nitroaniline	1.86	0.34	mg/Kg wet	1.67		112	30-140			†
4-Nitroaniline	1.73	0.34	mg/Kg wet	1.67		104	40-140			V-05
Nitrobenzene	1.57	0.34	mg/Kg wet	1.67		94.1	40-140			
2-Nitrophenol	1.66	0.34	mg/Kg wet	1.67		99.4	30-130			
4-Nitrophenol	1.76	0.66	mg/Kg wet	1.67		105	30-130			V-05
N-Nitrosodimethylamine	1.65	0.34	mg/Kg wet	1.67		98.9	40-140			
N-Nitrosodiphenylamine	2.13	0.34	mg/Kg wet	1.67		128	40-140			
N-Nitrosodi-n-propylamine	1.60	0.34	mg/Kg wet	1.67		95.7	40-140			
Pentachloronitrobenzene	1.85	0.34	mg/Kg wet	1.67		111	40-140			V-16
Pentachlorophenol	1.84	0.34	mg/Kg wet	1.67		110	30-130			
Phenanthrene	1.82	0.17	mg/Kg wet	1.67		109	40-140			
Phenol	1.64	0.34	mg/Kg wet	1.67		98.3	30-130			
Pyrene	1.39	0.17	mg/Kg wet	1.67		83.7	40-140			
Pyridine	1.27	0.34	mg/Kg wet	1.67		76.2	30-140			†
1,2,4,5-Tetrachlorobenzene	1.67	0.34	mg/Kg wet	1.67		100	40-140			
1,2,4-Trichlorobenzene	1.56	0.34	mg/Kg wet	1.67		93.3	40-140			
2,4,5-Trichlorophenol	1.87	0.34	mg/Kg wet	1.67		112	30-130			
2,4,6-Trichlorophenol	1.86	0.34	mg/Kg wet	1.67		112	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072855 - SW-846 3546

LCS (B072855-BS1)

Prepared & Analyzed: 05/13/13

Surrogate: 2-Fluorophenol	7.09		mg/Kg wet	6.67		106	30-130			
Surrogate: Phenol-d6	7.10		mg/Kg wet	6.67		107	30-130			
Surrogate: Nitrobenzene-d5	3.29		mg/Kg wet	3.33		98.6	30-130			
Surrogate: 2-Fluorobiphenyl	3.41		mg/Kg wet	3.33		102	30-130			
Surrogate: 2,4,6-Tribromophenol	7.65		mg/Kg wet	6.67		115	30-130			
Surrogate: p-Terphenyl-d14	3.10		mg/Kg wet	3.33		93.0	30-130			

LCS Dup (B072855-BSD1)

Prepared: 05/13/13 Analyzed: 05/14/13

Acenaphthene	1.59	0.17	mg/Kg wet	1.67		95.3	40-140	7.45	30	
Acenaphthylene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140	8.21	30	
Acetophenone	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	18.7	30	
Aniline	1.33	0.34	mg/Kg wet	1.67		79.6	10-140	13.9	50	† ‡
Anthracene	1.70	0.17	mg/Kg wet	1.67		102	40-140	9.39	30	
Benzidine	1.46	0.34	mg/Kg wet	1.67		87.4	40-140	0.989	30	V-04, V-06
Benzo(a)anthracene	1.76	0.17	mg/Kg wet	1.67		106	40-140	5.40	30	
Benzo(a)pyrene	1.67	0.17	mg/Kg wet	1.67		100	40-140	10.1	30	
Benzo(b)fluoranthene	1.60	0.17	mg/Kg wet	1.67		96.3	40-140	14.6	30	
Benzo(g,h,i)perylene	2.04	0.17	mg/Kg wet	1.67		122	40-140	25.6	30	
Benzo(k)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.3	40-140	21.0	30	
Benzoic Acid	0.270	1.0	mg/Kg wet	1.67		16.2 *	30-130	92.3 *	50	J, L-07A, V-19 ‡
Bis(2-chloroethoxy)methane	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	16.8	30	
Bis(2-chloroethyl)ether	1.35	0.34	mg/Kg wet	1.67		81.0	40-140	15.5	30	
Bis(2-chloroisopropyl)ether	1.32	0.34	mg/Kg wet	1.67		79.3	40-140	16.5	30	
Bis(2-Ethylhexyl)phthalate	1.70	0.34	mg/Kg wet	1.67		102	40-140	9.83	30	
4-Bromophenylphenylether	1.69	0.34	mg/Kg wet	1.67		101	40-140	6.28	30	
Butylbenzylphthalate	1.64	0.66	mg/Kg wet	1.67		98.1	40-140	11.0	30	
Carbazole	1.64	0.17	mg/Kg wet	1.67		98.1	40-140	18.2	30	
4-Chloroaniline	1.58	0.66	mg/Kg wet	1.67		94.8	10-140	0.421	30	†
4-Chloro-3-methylphenol	1.87	0.66	mg/Kg wet	1.67		112	30-130	5.35	30	
2-Chloronaphthalene	1.26	0.34	mg/Kg wet	1.67		75.9	40-140	17.6	30	
2-Chlorophenol	1.47	0.34	mg/Kg wet	1.67		88.2	30-130	18.3	30	
4-Chlorophenylphenylether	1.80	0.34	mg/Kg wet	1.67		108	40-140	4.17	30	
Chrysene	1.67	0.17	mg/Kg wet	1.67		100	40-140	7.45	30	
Dibenz(a,h)anthracene	2.11	0.17	mg/Kg wet	1.67		127	40-140	26.7	30	
Dibenzofuran	1.70	0.34	mg/Kg wet	1.67		102	40-140	2.14	30	
Di-n-butylphthalate	1.50	0.34	mg/Kg wet	1.67		90.0	40-140	22.1	30	
1,2-Dichlorobenzene	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	7.63	30	
1,3-Dichlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.6	40-140	4.96	30	
1,4-Dichlorobenzene	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	3.87	30	
3,3-Dichlorobenzidine	1.46	0.17	mg/Kg wet	1.67		87.4	20-140	0.275	50	† ‡
2,4-Dichlorophenol	1.57	0.34	mg/Kg wet	1.67		94.2	30-130	12.4	30	
Diethylphthalate	1.95	0.34	mg/Kg wet	1.67		117	40-140	11.2	30	
2,4-Dimethylphenol	1.54	0.34	mg/Kg wet	1.67		92.3	30-130	14.3	30	
Dimethylphthalate	1.85	0.66	mg/Kg wet	1.67		111	40-140	7.60	30	
4,6-Dinitro-2-methylphenol	1.52	0.34	mg/Kg wet	1.67		91.1	30-130	8.92	30	
2,4-Dinitrophenol	1.46	0.66	mg/Kg wet	1.67		87.8	30-130	15.7	30	
2,4-Dinitrotoluene	2.21	0.34	mg/Kg wet	1.67		132	40-140	15.0	30	
2,6-Dinitrotoluene	2.10	0.34	mg/Kg wet	1.67		126	40-140	11.1	30	
Di-n-octylphthalate	1.43	0.66	mg/Kg wet	1.67		85.9	40-140	31.8 *	30	R-05
1,2-Diphenylhydrazine (as Azobenzene)	1.63	0.34	mg/Kg wet	1.67		98.0	40-140	13.1	30	
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140	30.8 *	30	R-05
Fluorene	1.84	0.17	mg/Kg wet	1.67		111	40-140	5.35	30	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072855 - SW-846 3546										
LCS Dup (B072855-BSD1)										
					Prepared: 05/13/13 Analyzed: 05/14/13					
Hexachlorobenzene	1.64	0.34	mg/Kg wet	1.67		98.4	40-140	4.57	30	
Hexachlorobutadiene	1.52	0.34	mg/Kg wet	1.67		91.0	40-140	2.45	30	
Hexachlorocyclopentadiene	1.17	0.66	mg/Kg wet	1.67		69.9	40-140	28.5	30	
Hexachloroethane	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	7.80	30	
Indeno(1,2,3-cd)pyrene	2.20	0.17	mg/Kg wet	1.67		132	40-140	31.9	*	30 R-05
Isophorone	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	12.7	30	
1-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140	8.59	30	
2-Methylnaphthalene	1.39	0.17	mg/Kg wet	1.67		83.4	40-140	8.78	30	
2-Methylphenol	1.35	0.34	mg/Kg wet	1.67		80.8	30-130	23.2	30	
3/4-Methylphenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130	17.5	30	
Naphthalene	1.43	0.17	mg/Kg wet	1.67		85.6	40-140	7.92	30	
2-Nitroaniline	1.90	0.34	mg/Kg wet	1.67		114	40-140	5.50	30	
3-Nitroaniline	2.21	0.34	mg/Kg wet	1.67		132	30-140	17.0	30	†
4-Nitroaniline	1.95	0.34	mg/Kg wet	1.67		117	40-140	12.0	30	
Nitrobenzene	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	8.49	30	
2-Nitrophenol	1.54	0.34	mg/Kg wet	1.67		92.7	30-130	6.98	30	
4-Nitrophenol	1.96	0.66	mg/Kg wet	1.67		117	30-130	10.7	50	‡
N-Nitrosodimethylamine	1.55	0.34	mg/Kg wet	1.67		92.9	40-140	6.30	30	
N-Nitrosodiphenylamine	1.96	0.34	mg/Kg wet	1.67		118	40-140	8.07	30	
N-Nitrosodi-n-propylamine	1.26	0.34	mg/Kg wet	1.67		75.6	40-140	23.5	30	
Pentachloronitrobenzene	1.73	0.34	mg/Kg wet	1.67		104	40-140	6.94	30	V-16
Pentachlorophenol	1.72	0.34	mg/Kg wet	1.67		103	30-130	6.53	30	
Phenanthrene	1.66	0.17	mg/Kg wet	1.67		99.5	40-140	9.37	30	
Phenol	1.36	0.34	mg/Kg wet	1.67		81.3	30-130	18.9	30	
Pyrene	1.58	0.17	mg/Kg wet	1.67		95.0	40-140	12.7	30	
Pyridine	1.31	0.34	mg/Kg wet	1.67		78.8	30-140	3.35	30	†
1,2,4,5-Tetrachlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.4	40-140	24.5	30	
1,2,4-Trichlorobenzene	1.47	0.34	mg/Kg wet	1.67		87.9	40-140	5.91	30	
2,4,5-Trichlorophenol	1.84	0.34	mg/Kg wet	1.67		110	30-130	1.57	30	
2,4,6-Trichlorophenol	1.68	0.34	mg/Kg wet	1.67		101	30-130	10.2	30	
Surrogate: 2-Fluorophenol	5.98		mg/Kg wet	6.67		89.7	30-130			
Surrogate: Phenol-d6	5.65		mg/Kg wet	6.67		84.7	30-130			
Surrogate: Nitrobenzene-d5	2.93		mg/Kg wet	3.33		87.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.33		77.0	30-130			
Surrogate: 2,4,6-Tribromophenol	8.65		mg/Kg wet	6.67		130	30-130			
Surrogate: p-Terphenyl-d14	3.29		mg/Kg wet	3.33		98.7	30-130			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072854 - SW-846 3546

Blank (B072854-BLK1)

Prepared & Analyzed: 05/13/13

C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	3.44		mg/Kg wet	4.99		69.0	40-140			
Surrogate: o-Terphenyl (OTP)	3.05		mg/Kg wet	5.00		61.1	40-140			
Surrogate: 2-Bromonaphthalene	4.30		mg/Kg wet	5.00		86.0	40-140			
Surrogate: 2-Fluorobiphenyl	4.46		mg/Kg wet	5.00		89.2	40-140			

LCS (B072854-BS1)

Prepared & Analyzed: 05/13/13

Acenaphthene	3.31	0.10	mg/Kg wet	5.00		66.2	40-140			
Acenaphthylene	3.19	0.10	mg/Kg wet	5.00		63.8	40-140			
Anthracene	3.61	0.10	mg/Kg wet	5.00		72.2	40-140			
Benzo(a)anthracene	3.63	0.10	mg/Kg wet	5.00		72.7	40-140			
Benzo(a)pyrene	3.56	0.10	mg/Kg wet	5.00		71.2	40-140			
Benzo(b)fluoranthene	3.68	0.10	mg/Kg wet	5.00		73.6	40-140			
Benzo(g,h,i)perylene	3.91	0.10	mg/Kg wet	5.00		78.2	40-140			
Benzo(k)fluoranthene	3.64	0.10	mg/Kg wet	5.00		72.8	40-140			
Chrysene	3.44	0.10	mg/Kg wet	5.00		68.8	40-140			
Dibenz(a,h)anthracene	3.90	0.10	mg/Kg wet	5.00		78.0	40-140			
Fluoranthene	3.57	0.10	mg/Kg wet	5.00		71.4	40-140			
Fluorene	3.45	0.10	mg/Kg wet	5.00		68.9	40-140			
Indeno(1,2,3-cd)pyrene	3.93	0.10	mg/Kg wet	5.00		78.6	40-140			
2-Methylnaphthalene	3.11	0.10	mg/Kg wet	5.00		62.3	40-140			
Naphthalene	2.81	0.10	mg/Kg wet	5.00		56.2	40-140			
Phenanthrene	3.53	0.10	mg/Kg wet	5.00		70.5	40-140			
Pyrene	3.48	0.10	mg/Kg wet	5.00		69.6	40-140			
n-Decane	2.55	0.10	mg/Kg wet	5.00		51.0	40-140			
n-Docosane	4.20	0.10	mg/Kg wet	5.00		84.0	40-140			
n-Dodecane	3.35	0.10	mg/Kg wet	5.00		67.0	40-140			
n-Eicosane	4.23	0.10	mg/Kg wet	5.00		84.6	40-140			
n-Hexacosane	4.03	0.10	mg/Kg wet	5.00		80.7	40-140			
n-Hexadecane	4.26	0.10	mg/Kg wet	5.00		85.2	40-140			
n-Hexatriacontane	4.30	0.10	mg/Kg wet	5.00		86.0	40-140			
n-Nonadecane	4.28	0.10	mg/Kg wet	5.00		85.6	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072854 - SW-846 3546										
LCS (B072854-BS1)										
Prepared & Analyzed: 05/13/13										
n-Nonane	1.73	0.10	mg/Kg wet	5.00		34.6	30-140			
n-Octacosane	3.96	0.10	mg/Kg wet	5.00		79.2	40-140			
n-Octadecane	4.26	0.10	mg/Kg wet	5.00		85.2	40-140			
n-Tetracosane	4.11	0.10	mg/Kg wet	5.00		82.1	40-140			
n-Tetradecane	3.92	0.10	mg/Kg wet	5.00		78.4	40-140			
n-Triacontane	4.06	0.10	mg/Kg wet	5.00		81.3	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	4.17		mg/Kg wet	4.99		83.6	40-140			
Surrogate: o-Terphenyl (OTP)	3.33		mg/Kg wet	5.00		66.6	40-140			
Surrogate: 2-Bromonaphthalene	3.98		mg/Kg wet	5.00		79.6	40-140			
Surrogate: 2-Fluorobiphenyl	4.24		mg/Kg wet	5.00		84.7	40-140			
LCS Dup (B072854-BSD1)										
Prepared & Analyzed: 05/13/13										
Acenaphthene	3.47	0.10	mg/Kg wet	5.00		69.4	40-140	4.66	25	
Acenaphthylene	3.32	0.10	mg/Kg wet	5.00		66.4	40-140	4.03	25	
Anthracene	3.88	0.10	mg/Kg wet	5.00		77.7	40-140	7.39	25	
Benzo(a)anthracene	4.01	0.10	mg/Kg wet	5.00		80.1	40-140	9.73	25	
Benzo(a)pyrene	3.93	0.10	mg/Kg wet	5.00		78.6	40-140	9.82	25	
Benzo(b)fluoranthene	4.06	0.10	mg/Kg wet	5.00		81.1	40-140	9.77	25	
Benzo(g,h,i)perylene	4.34	0.10	mg/Kg wet	5.00		86.8	40-140	10.5	25	
Benzo(k)fluoranthene	4.01	0.10	mg/Kg wet	5.00		80.1	40-140	9.60	25	
Chrysene	3.78	0.10	mg/Kg wet	5.00		75.7	40-140	9.45	25	
Dibenz(a,h)anthracene	4.29	0.10	mg/Kg wet	5.00		85.8	40-140	9.53	25	
Fluoranthene	3.90	0.10	mg/Kg wet	5.00		78.1	40-140	8.84	25	
Fluorene	3.63	0.10	mg/Kg wet	5.00		72.7	40-140	5.28	25	
Indeno(1,2,3-cd)pyrene	4.34	0.10	mg/Kg wet	5.00		86.7	40-140	9.79	25	
2-Methylnaphthalene	3.22	0.10	mg/Kg wet	5.00		64.4	40-140	3.30	25	
Naphthalene	2.93	0.10	mg/Kg wet	5.00		58.6	40-140	4.15	25	
Phenanthrene	3.79	0.10	mg/Kg wet	5.00		75.7	40-140	7.12	25	
Pyrene	3.82	0.10	mg/Kg wet	5.00		76.4	40-140	9.35	25	
n-Decane	2.36	0.10	mg/Kg wet	5.00		47.2	40-140	7.82	25	
n-Docosane	4.18	0.10	mg/Kg wet	5.00		83.7	40-140	0.379	25	
n-Dodecane	3.04	0.10	mg/Kg wet	5.00		60.9	40-140	9.60	25	
n-Eicosane	4.16	0.10	mg/Kg wet	5.00		83.1	40-140	1.77	25	
n-Hexacosane	4.04	0.10	mg/Kg wet	5.00		80.7	40-140	0.0867	25	
n-Hexadecane	4.03	0.10	mg/Kg wet	5.00		80.7	40-140	5.48	25	
n-Hexatriacontane	4.33	0.10	mg/Kg wet	5.00		86.5	40-140	0.582	25	
n-Nonadecane	4.16	0.10	mg/Kg wet	5.00		83.2	40-140	2.80	25	
n-Nonane	1.61	0.10	mg/Kg wet	5.00		32.2	30-140	7.27	25	
n-Octacosane	3.97	0.10	mg/Kg wet	5.00		79.5	40-140	0.406	25	
n-Octadecane	4.10	0.10	mg/Kg wet	5.00		81.9	40-140	3.88	25	
n-Tetracosane	4.09	0.10	mg/Kg wet	5.00		81.9	40-140	0.324	25	
n-Tetradecane	3.56	0.10	mg/Kg wet	5.00		71.2	40-140	9.67	25	
n-Triacontane	4.07	0.10	mg/Kg wet	5.00		81.3	40-140	0.0615	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	4.07		mg/Kg wet	4.99		81.6	40-140			
Surrogate: o-Terphenyl (OTP)	3.49		mg/Kg wet	5.00		69.9	40-140			
Surrogate: 2-Bromonaphthalene	4.04		mg/Kg wet	5.00		80.7	40-140			
Surrogate: 2-Fluorobiphenyl	4.39		mg/Kg wet	5.00		87.9	40-140			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072883 - MA VPH

Blank (B072883-BLK1)

Prepared & Analyzed: 05/13/13

Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	0.0423		mg/Kg wet	0.0400		106	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	0.0372		mg/Kg wet	0.0400		93.1	70-130			

LCS (B072883-BS1)

Prepared & Analyzed: 05/13/13

Benzene	0.0973	0.0010	mg/Kg wet	0.100		97.3	70-130			
Butylcyclohexane	0.0885	0.0010	mg/Kg wet	0.100		88.5	70-130			
Decane	0.0958	0.0010	mg/Kg wet	0.100		95.8	70-130			
Ethylbenzene	0.0993	0.0010	mg/Kg wet	0.100		99.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0987	0.0010	mg/Kg wet	0.100		98.7	70-130			
2-Methylpentane	0.101	0.0010	mg/Kg wet	0.100		101	70-130			
Naphthalene	0.101	0.0050	mg/Kg wet	0.100		101	70-130			
Nonane	0.0897	0.0010	mg/Kg wet	0.100		89.7	30-130			
Pentane	0.104	0.0010	mg/Kg wet	0.100		104	70-130			
Toluene	0.0996	0.0010	mg/Kg wet	0.100		99.6	70-130			
1,2,4-Trimethylbenzene	0.0995	0.0010	mg/Kg wet	0.100		99.5	70-130			
2,2,4-Trimethylpentane	0.0936	0.0010	mg/Kg wet	0.100		93.6	70-130			
m+p Xylene	0.202	0.0020	mg/Kg wet	0.200		101	70-130			
o-Xylene	0.0993	0.0010	mg/Kg wet	0.100		99.3	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	0.0318		mg/Kg wet	0.0400		79.4	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	0.0316		mg/Kg wet	0.0400		79.0	70-130			

LCS Dup (B072883-BSD1)

Prepared & Analyzed: 05/13/13

Benzene	0.103	0.0010	mg/Kg wet	0.100		103	70-130	5.82	25	
Butylcyclohexane	0.0926	0.0010	mg/Kg wet	0.100		92.6	70-130	4.56	25	
Decane	0.102	0.0010	mg/Kg wet	0.100		102	70-130	5.82	25	
Ethylbenzene	0.105	0.0010	mg/Kg wet	0.100		105	70-130	5.70	25	
Methyl tert-Butyl Ether (MTBE)	0.0991	0.0010	mg/Kg wet	0.100		99.1	70-130	0.379	25	
2-Methylpentane	0.106	0.0010	mg/Kg wet	0.100		106	70-130	4.56	25	
Naphthalene	0.101	0.0050	mg/Kg wet	0.100		101	70-130	0.250	25	
Nonane	0.0928	0.0010	mg/Kg wet	0.100		92.8	30-130	3.45	25	
Pentane	0.110	0.0010	mg/Kg wet	0.100		110	70-130	5.28	25	
Toluene	0.105	0.0010	mg/Kg wet	0.100		105	70-130	5.68	25	
1,2,4-Trimethylbenzene	0.106	0.0010	mg/Kg wet	0.100		106	70-130	5.88	25	
2,2,4-Trimethylpentane	0.101	0.0010	mg/Kg wet	0.100		101	70-130	7.29	25	
m+p Xylene	0.214	0.0020	mg/Kg wet	0.200		107	70-130	5.62	25	
o-Xylene	0.105	0.0010	mg/Kg wet	0.100		105	70-130	5.55	25	
Surrogate: 2,5-Dibromotoluene (FID)	0.0401		mg/Kg wet	0.0400		100	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	0.0400		mg/Kg wet	0.0400		99.9	70-130			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
- L-02 Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
- L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
- L-07A Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
- O-02 Soil/methanol ratio does not meet method specifications. Insufficient amount of soil. Data validation is not affected since a sufficient amount of preservative is present. Detection limits may be above useful levels.
- R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
- S-03 Surrogate recovery outside of control limits due to suspected sample matrix interference.

- V-04 Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
- V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
- V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
- V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
- V-17 Internal standard area <50% of associated calibration standard internal standard area.

- V-19 Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
- V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,ME,NH-P
Benzene	CT,NC,WA,ME,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,ME,NH-P
Naphthalene	CT,NC,WA,ME,ME,NH-P
Toluene	CT,NC,WA,ME,ME,NH-P
m+p Xylene	CT,NC,WA,ME,ME,NH-P
o-Xylene	CT,NC,WA,ME,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
Acrylonitrile	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
n-Butylbenzene	CT,NH,NY,NC,ME
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC,ME
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,3,5-Trichlorobenzene	NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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SW-846 8270D in Soil

2-Fluorophenol NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13E0396
CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: FALCON ENGINEERS
Address: 215 BUNTING ST. STE. 116
Telephone: 919.871.0806

Project # _____
Client PO# _____
DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
Fax # 919.871.0803

Attention: JOHN DUBAR
Project Location: CHARLETTOWN
Sampled By: S. APPLE / S. BUNTING
Email: JDUBAR@FALCONENGINEERS.COM

Project Proposal Provided? (for billing purposes)
 Yes No
Proposal date _____
Format: PDF EXCEL OGIS
 OTHER _____

Con-Test Lab ID <small>(Laboratory use only)</small>	Client Sample ID / Description	Collection		Composite	Grab	*Matrix Code	Conc Code	GRO	DRO	8260	8270/EPH	VPH	Analysis Requested	# of Containers	** Preservation	*** Container Code	Dissolved Metals <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter
		Beginning Date/Time	Ending Date/Time														
01-51		2:00 PM	2:15 PM			S	U										
01-54		11:45 AM	11:50 AM			S	U										

Comments: PERFORM GPO/DRO, HOLD REMAINING FOR RESULTS
5/12/13 - CIVIL/PH, 8260, 8270 ANALYSIS
5/12/13 - CIVIL/PH, 8260, 8270 ANALYSIS

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Receiving Signature: _____ Date/Time: 4/29/13 3:35 PM
Turnaround: 5-Day 5-7-Day 10-Day RUSH*
Requires Lab Approval: 72-Hr 4-Day

Detection Limit Requirements: North Carolina 2L GWPC SWSL OTHER _____

Program Information: DSCA IHSB Orphaned Landfill SWS Landfill UST REC

ACCREDITED IN ACCORDANCE WITH NELAP and AIHA NELAC & AIHA Certified
WBE/DBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.



802631889500

Ship (PAJ) date :
Mon 4/29/2013 6:33 pm
 RAL US



Actual delivery:
Tues 4/30/2013 9:58 am
 MA US

Delivered

Signed for by: C. COLLINS

Travel History

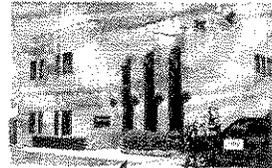
▲ Date/Time	Activity	Location
- 4/30/2013 - Tuesday		
9:58 am	Delivered	MA
8:26 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:32 am	At local FedEx facility	WINDSOR LOCKS, CT
6:32 am	At destination sort facility	EAST GRANBY, CT
4:52 am	Departed FedEx location	INDIANAPOLIS, IN
12:01 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 4/29/2013 - Monday		
8:35 pm	Left FedEx origin facility	RALEIGH, NC
6:33 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

Local Scan Time

Shipment Facts

Tracking number	802631889500	Service	FedEx Priority Overnight
Dimensions	18x11x15 in.	Delivered To	Shipping/Receiving
Total pieces	1	Packaging	Your Packaging
Special handling section	Deliver Weekday		

39 Spruce St.
 East Longmeadow, MA, 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Falcon Eng. RECEIVED BY: CFC DATE: 4/30/13

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
If not, explain:
- 3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.1°C

- 5) Are there Dissolved samples for the lab to filter? Yes No
 Who was notified _____ Date _____ Time _____
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
 Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes No N/A
- 9) Do all samples have the proper Base pH: Yes No N/A
- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test			
	# of containers		# of containers
1 Liter Amber		8 oz <u>amber</u> clear jar	<u>4</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>2</u>
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	<u>10</u>	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: _____

40 mL vials: # HCl _____ # Methanol <u>6</u> # Bisulfate <u>4</u> # DI Water _____ # Thiosulfate _____ Unpreserved _____	Time and Date Frozen: _____
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May 14, 2013

Josh Dunbar
Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607

Project Location: 828 MLK-Ch.Hill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13E0159

Enclosed are results of analyses for samples received by the laboratory on May 3, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager

Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607
ATTN: Josh Dunbar

REPORT DATE: 5/14/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13E0159

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 828 MLK-Ch.Hill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	13E0159-01	Water		SW-846 6010C SW-846 6020A SW-846 7470A SW-846 8260B SW-846 8270D	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010C

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Sodium

13E0159-01[MW-1], B072721-MS1

SW-846 8260B

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

B072403-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

13E0159-01[MW-1], B072403-BLK1, B072403-BS1, B072403-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane, tert-Butyl Alcohol (TBA)

13E0159-01[MW-1], B072403-BLK1, B072403-BS1, B072403-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B072403-BS1, B072403-BSD1

SW-846 8270D

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

B072641-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2-Chloronaphthalene, Benzidine

13E0159-01[MW-1], B072641-BLK1, B072641-BS1, B072641-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Anthracene, Di-n-butylphthalate

13E0159-01[MW-1], B072641-BLK1, B072641-BS1, B072641-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

13E0159-01[MW-1], B072641-BLK1, B072641-BS1, B072641-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: 828 MLK-Ch.Hill

Sample Description:

Work Order: 13E0159

Date Received: 5/3/2013

Field Sample #: MW-1

Sampled: 5/3/2013 12:00

Sample ID: 13E0159-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Bromobenzene	ND	1.0	0.044	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Bromodichloromethane	ND	1.0	0.088	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Bromomethane	ND	2.0	0.94	µg/L	1	R-05	SW-846 8260B	5/6/13	5/6/13 13:24	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1	V-16	SW-846 8260B	5/6/13	5/6/13 13:24	LBD
n-Butylbenzene	ND	1.0	0.054	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
sec-Butylbenzene	ND	1.0	0.084	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
tert-Butylbenzene	ND	1.0	0.096	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.075	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Carbon Disulfide	ND	10	1.0	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
2-Chlorotoluene	ND	1.0	0.070	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
4-Chlorotoluene	ND	1.0	0.074	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
2,2-Dichloropropane	ND	1.0	0.072	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
cis-1,3-Dichloropropene	ND	2.0	0.062	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD

Project Location: 828 MLK-Ch.Hill

Sample Description:

Work Order: 13E0159

Date Received: 5/3/2013

Field Sample #: MW-1

Sampled: 5/3/2013 12:00

Sample ID: 13E0159-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-16	SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Hexachlorobutadiene	ND	1.0	0.17	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
n-Propylbenzene	ND	1.0	0.094	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,3,5-Trichlorobenzene	ND	2.0	0.14	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.10	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	5/6/13	5/6/13 13:24	LBD

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	96.0	70-130	5/6/13 13:24
Toluene-d8	93.6	70-130	5/6/13 13:24
4-Bromofluorobenzene	93.3	70-130	5/6/13 13:24

Project Location: 828 MLK-Ch.Hill

Sample Description:

Work Order: 13E0159

Date Received: 5/3/2013

Field Sample #: MW-1

Sampled: 5/3/2013 12:00

Sample ID: 13E0159-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	2.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Acenaphthylene	ND	5.0	2.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Acetophenone	ND	10	3.4	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Aniline	ND	5.0	2.3	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Anthracene	ND	5.0	2.4	µg/L	1	V-05	SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Benzidine	ND	10	6.3	µg/L	1	R-05	SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Benzo(a)anthracene	ND	5.0	2.3	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Benzo(a)pyrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Benzo(b)fluoranthene	ND	5.0	2.1	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Benzo(g,h,i)perylene	ND	5.0	5.0	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Benzo(k)fluoranthene	ND	5.0	3.1	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Benzoic Acid	ND	10	2.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Bis(2-chloroethoxy)methane	ND	10	3.1	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Bis(2-chloroethyl)ether	ND	10	4.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Bis(2-chloroisopropyl)ether	ND	10	4.1	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	7.1	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
4-Bromophenylphenylether	ND	10	3.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Butylbenzylphthalate	ND	10	2.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Carbazole	ND	10	1.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
4-Chloroaniline	ND	10	2.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
4-Chloro-3-methylphenol	ND	10	2.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2-Chloronaphthalene	ND	10	4.0	µg/L	1	R-05	SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2-Chlorophenol	ND	10	3.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
4-Chlorophenylphenylether	ND	10	2.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Chrysene	ND	5.0	2.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Dibenz(a,h)anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Dibenzofuran	ND	5.0	2.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Di-n-butylphthalate	ND	10	2.2	µg/L	1	V-05	SW-846 8270D	5/9/13	5/11/13 18:36	CMR
1,2-Dichlorobenzene	ND	5.0	3.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
1,3-Dichlorobenzene	ND	5.0	3.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
1,4-Dichlorobenzene	ND	5.0	3.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
3,3-Dichlorobenzidine	ND	10	5.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2,4-Dichlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Diethylphthalate	ND	10	2.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2,4-Dimethylphenol	ND	10	7.2	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Dimethylphthalate	ND	10	2.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
4,6-Dinitro-2-methylphenol	ND	10	4.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2,4-Dinitrophenol	ND	10	3.2	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2,4-Dinitrotoluene	ND	10	3.0	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2,6-Dinitrotoluene	ND	10	2.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Di-n-octylphthalate	ND	10	6.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	4.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Fluoranthene	ND	5.0	2.0	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Fluorene	ND	5.0	2.4	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR

Project Location: 828 MLK-Ch.Hill

Sample Description:

Work Order: 13E0159

Date Received: 5/3/2013

Field Sample #: MW-1

Sampled: 5/3/2013 12:00

Sample ID: 13E0159-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	3.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Hexachlorobutadiene	ND	10	5.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Hexachlorocyclopentadiene	ND	10	7.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Hexachloroethane	ND	10	4.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	4.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Isophorone	ND	10	3.2	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
1-Methylnaphthalene	ND	5.0	3.1	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2-Methylnaphthalene	ND	5.0	3.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2-Methylphenol	ND	10	3.1	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
3/4-Methylphenol	ND	10	3.2	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Naphthalene	ND	5.0	3.0	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2-Nitroaniline	ND	10	2.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
3-Nitroaniline	ND	10	3.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
4-Nitroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Nitrobenzene	ND	10	3.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2-Nitrophenol	ND	10	3.3	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
4-Nitrophenol	ND	10	3.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
N-Nitrosodimethylamine	ND	5.0	3.2	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
N-Nitrosodiphenylamine	ND	10	3.9	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
N-Nitrosodi-n-propylamine	ND	10	5.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Pentachloronitrobenzene	ND	10	2.3	µg/L	1	V-16	SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Pentachlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Phenanthrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Phenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
Pyridine	ND	5.0	3.0	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
1,2,4,5-Tetrachlorobenzene	ND	10	5.4	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
1,2,4-Trichlorobenzene	ND	5.0	4.8	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2,4,5-Trichlorophenol	ND	10	2.7	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR
2,4,6-Trichlorophenol	ND	10	3.6	µg/L	1		SW-846 8270D	5/9/13	5/11/13 18:36	CMR

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	52.1	15-110	5/11/13 18:36
Phenol-d6	36.3	15-110	5/11/13 18:36
Nitrobenzene-d5	68.3	30-130	5/11/13 18:36
2-Fluorobiphenyl	61.7	30-130	5/11/13 18:36
2,4,6-Tribromophenol	73.1	15-110	5/11/13 18:36
p-Terphenyl-d14	64.9	30-130	5/11/13 18:36

Project Location: 828 MLK-Ch.Hill

Sample Description:

Work Order: 13E0159

Date Received: 5/3/2013

Field Sample #: MW-1

Sampled: 5/3/2013 12:00

Sample ID: 13E0159-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	5.6	0.050	0.026	mg/L	1		SW-846 6010C	5/9/13	5/10/13 19:00	OP
Antimony	5.4	2.0	0.30	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Arsenic	85	0.80	0.70	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Barium	1100	20	2.4	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Beryllium	1.6	2.0	0.36	µg/L	5	J	SW-846 6020A	5/9/13	5/10/13 15:58	KSH
Cadmium	0.17	1.0	0.059	µg/L	2	J	SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Calcium	110	0.15		mg/L	1		SW-846 6010C	5/9/13	5/10/13 19:00	OP
Chromium	15	2.0	1.3	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Cobalt	15	2.0	0.067	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Copper	25	10	0.16	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Iron	6.5	0.050		mg/L	1		SW-846 6010C	5/9/13	5/10/13 19:00	OP
Lead	5.8	2.0	0.12	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Magnesium	25	0.15	0.037	mg/L	1		SW-846 6010C	5/9/13	5/10/13 19:00	OP
Manganese	7600	100	9.9	µg/L	100		SW-846 6020A	5/9/13	5/10/13 16:51	KSH
Mercury	ND	0.00010	0.000047	mg/L	1		SW-846 7470A	5/8/13	5/8/13 15:19	SAJ
Nickel	12	10	0.13	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Potassium	7.6	2.0	0.46	mg/L	1		SW-846 6010C	5/9/13	5/10/13 19:00	OP
Selenium	2.5	10	1.5	µg/L	2	J	SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Sodium	34	2.0	1.9	mg/L	1	MS-19	SW-846 6010C	5/9/13	5/13/13 16:57	OP
Thallium	1.0	0.40	0.073	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Vanadium	38	10	1.1	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH
Zinc	52	20	3.9	µg/L	2		SW-846 6020A	5/9/13	5/10/13 16:22	KSH

Sample Extraction Data

Prep Method: SM 3030C-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0159-01 [MW-1]	B072721	50.0	50.0	05/09/13

Prep Method: SM 3030C-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0159-01 [MW-1]	B072722	50.0	50.0	05/09/13

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0159-01 [MW-1]	B072571	6.00	6.00	05/08/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0159-01 [MW-1]	B072403	5	5.00	05/06/13

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13E0159-01 [MW-1]	B072641	1000	1.00	05/09/13

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072403 - SW-846 5035

Blank (B072403-BLK1)

Prepared & Analyzed: 05/06/13

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	2.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072403 - SW-846 5035

Blank (B072403-BLK1)

Prepared & Analyzed: 05/06/13

Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.2	70-130			
Surrogate: Toluene-d8	23.6		µg/L	25.0		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0		95.1	70-130			

LCS (B072403-BS1)

Prepared & Analyzed: 05/06/13

Acetone	126	50	µg/L	100		126	70-160			†
Acrylonitrile	10.5	5.0	µg/L	10.0		105	70-130			
tert-Amyl Methyl Ether (TAME)	10.6	0.50	µg/L	10.0		106	70-130			
Benzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	10.4	1.0	µg/L	10.0		104	70-130			
Bromomethane	4.31	2.0	µg/L	10.0		43.1	40-160		R-05, V-20	†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160			†
tert-Butyl Alcohol (TBA)	104	20	µg/L	100		104	40-160		V-16	†
n-Butylbenzene	8.70	1.0	µg/L	10.0		87.0	70-130			
sec-Butylbenzene	9.64	1.0	µg/L	10.0		96.4	70-130			
tert-Butylbenzene	9.90	1.0	µg/L	10.0		99.0	70-130			
tert-Butyl Ethyl Ether (TBEE)	10.3	0.50	µg/L	10.0		103	70-130			
Carbon Disulfide	9.30	2.0	µg/L	10.0		93.0	70-130			
Carbon Tetrachloride	9.60	5.0	µg/L	10.0		96.0	70-130			
Chlorobenzene	12.1	1.0	µg/L	10.0		121	70-130			
Chlorodibromomethane	9.31	0.50	µg/L	10.0		93.1	70-130			
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130			
Chloroform	10.4	2.0	µg/L	10.0		104	70-130			
Chloromethane	6.35	2.0	µg/L	10.0		63.5	40-160			†
2-Chlorotoluene	11.5	1.0	µg/L	10.0		115	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072403 - SW-846 5035										
LCS (B072403-BS1)										
Prepared & Analyzed: 05/06/13										
4-Chlorotoluene	11.9	1.0	µg/L	10.0		119	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.76	5.0	µg/L	10.0		87.6	70-130			
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130			
Dibromomethane	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
trans-1,4-Dichloro-2-butene	9.95	2.0	µg/L	10.0		99.5	70-130			
Dichlorodifluoromethane (Freon 12)	4.19	2.0	µg/L	10.0		41.9	40-160			†
1,1-Dichloroethane	9.84	1.0	µg/L	10.0		98.4	70-130			
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
cis-1,2-Dichloroethylene	9.56	1.0	µg/L	10.0		95.6	70-130			
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130			
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichloropropane	9.94	0.50	µg/L	10.0		99.4	70-130			
2,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	40-130			†
1,1-Dichloropropene	9.90	2.0	µg/L	10.0		99.0	70-130			
cis-1,3-Dichloropropene	9.10	0.50	µg/L	10.0		91.0	70-130			
trans-1,3-Dichloropropene	9.47	0.50	µg/L	10.0		94.7	70-130			
Diethyl Ether	11.3	2.0	µg/L	10.0		113	70-130			
Diisopropyl Ether (DIPE)	11.1	0.50	µg/L	10.0		111	70-130			
1,4-Dioxane	123	50	µg/L	100		123	40-130			V-16 †
Ethylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Hexachlorobutadiene	9.37	0.50	µg/L	10.0		93.7	70-130			
2-Hexanone (MBK)	111	10	µg/L	100		111	70-160			†
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0		115	70-130			
p-Isopropyltoluene (p-Cymene)	9.85	1.0	µg/L	10.0		98.5	70-130			
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130			
Methylene Chloride	8.78	5.0	µg/L	10.0		87.8	70-130			
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108	70-160			†
Naphthalene	8.25	2.0	µg/L	10.0		82.5	40-130			†
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Styrene	12.0	1.0	µg/L	10.0		120	70-130			
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130			
Tetrachloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Tetrahydrofuran	11.5	10	µg/L	10.0		115	70-130			
Toluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2,3-Trichlorobenzene	8.59	5.0	µg/L	10.0		85.9	70-130			
1,2,4-Trichlorobenzene	9.37	1.0	µg/L	10.0		93.7	70-130			
1,3,5-Trichlorobenzene	9.41	1.0	µg/L	10.0		94.1	70-130			
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	9.84	2.0	µg/L	10.0		98.4	70-130			
1,2,3-Trichloropropane	11.3	2.0	µg/L	10.0		113	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.5	1.0	µg/L	10.0		115	70-130			
1,2,4-Trimethylbenzene	9.84	1.0	µg/L	10.0		98.4	70-130			
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Vinyl Chloride	7.18	2.0	µg/L	10.0		71.8	40-160			†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072403 - SW-846 5035										
LCS (B072403-BS1)										
Prepared & Analyzed: 05/06/13										
m+p Xylene	23.6	2.0	µg/L	20.0		118	70-130			
o-Xylene	11.9	1.0	µg/L	10.0		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.1		µg/L	25.0		88.6	70-130			
Surrogate: Toluene-d8	24.0		µg/L	25.0		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			
LCS Dup (B072403-BS1)										
Prepared & Analyzed: 05/06/13										
Acetone	110	50	µg/L	100		110	70-160	13.9	25	†
Acrylonitrile	9.71	5.0	µg/L	10.0		97.1	70-130	7.53	25	
tert-Amyl Methyl Ether (TAME)	10.4	0.50	µg/L	10.0		104	70-130	1.82	25	
Benzene	9.77	1.0	µg/L	10.0		97.7	70-130	3.12	25	
Bromobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.09	25	
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130	0.261	25	
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130	0.0988	25	
Bromoform	9.89	1.0	µg/L	10.0		98.9	70-130	4.55	25	
Bromomethane	6.89	2.0	µg/L	10.0		68.9	40-160	46.1 *	25	R-05, V-20 †
2-Butanone (MEK)	90.4	20	µg/L	100		90.4	40-160	12.3	25	†
tert-Butyl Alcohol (TBA)	85.5	20	µg/L	100		85.5	40-160	19.4	25	V-16 †
n-Butylbenzene	8.58	1.0	µg/L	10.0		85.8	70-130	1.39	25	
sec-Butylbenzene	9.47	1.0	µg/L	10.0		94.7	70-130	1.78	25	
tert-Butylbenzene	9.58	1.0	µg/L	10.0		95.8	70-130	3.29	25	
tert-Butyl Ethyl Ether (TBEE)	9.97	0.50	µg/L	10.0		99.7	70-130	2.96	25	
Carbon Disulfide	8.35	2.0	µg/L	10.0		83.5	70-130	10.8	25	
Carbon Tetrachloride	9.14	5.0	µg/L	10.0		91.4	70-130	4.91	25	
Chlorobenzene	11.8	1.0	µg/L	10.0		118	70-130	2.84	25	
Chlorodibromomethane	9.20	0.50	µg/L	10.0		92.0	70-130	1.19	25	
Chloroethane	9.52	2.0	µg/L	10.0		95.2	70-130	6.11	25	
Chloroform	10.1	2.0	µg/L	10.0		101	70-130	2.92	25	
Chloromethane	5.95	2.0	µg/L	10.0		59.5	40-160	6.50	25	†
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130	3.72	25	
4-Chlorotoluene	11.6	1.0	µg/L	10.0		116	70-130	2.81	25	
1,2-Dibromo-3-chloropropane (DBCP)	7.54	5.0	µg/L	10.0		75.4	70-130	15.0	25	
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130	2.60	25	
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130	3.00	25	
1,2-Dichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	4.31	25	
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	3.08	25	
1,4-Dichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130	3.87	25	
trans-1,4-Dichloro-2-butene	9.52	2.0	µg/L	10.0		95.2	70-130	4.42	25	
Dichlorodifluoromethane (Freon 12)	3.90	2.0	µg/L	10.0		39.0 *	40-160	7.17	25	L-07 †
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	8.65	25	
1,2-Dichloroethane	9.65	1.0	µg/L	10.0		96.5	70-130	4.26	25	
1,1-Dichloroethylene	9.59	1.0	µg/L	10.0		95.9	70-130	5.97	25	
cis-1,2-Dichloroethylene	9.38	1.0	µg/L	10.0		93.8	70-130	1.90	25	
trans-1,2-Dichloroethylene	9.46	1.0	µg/L	10.0		94.6	70-130	6.74	25	
1,2-Dichloropropane	9.70	1.0	µg/L	10.0		97.0	70-130	4.93	25	
1,3-Dichloropropane	9.95	0.50	µg/L	10.0		99.5	70-130	0.101	25	
2,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	40-130	6.40	25	†
1,1-Dichloropropene	9.54	2.0	µg/L	10.0		95.4	70-130	3.70	25	
cis-1,3-Dichloropropene	8.84	0.50	µg/L	10.0		88.4	70-130	2.90	25	
trans-1,3-Dichloropropene	9.18	0.50	µg/L	10.0		91.8	70-130	3.11	25	
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130	4.60	25	
Diisopropyl Ether (DIPE)	13.0	0.50	µg/L	10.0		130	70-130	16.0	25	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072403 - SW-846 5035

LCS Dup (B072403-BSD1)

Prepared & Analyzed: 05/06/13

1,4-Dioxane	95.9	50	µg/L	100		95.9	40-130	24.7	50	V-16 † ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	4.04	25	
Hexachlorobutadiene	9.29	0.50	µg/L	10.0		92.9	70-130	0.857	25	
2-Hexanone (MBK)	99.7	10	µg/L	100		99.7	70-160	11.1	25	†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113	70-130	1.67	25	
p-Isopropyltoluene (p-Cymene)	9.51	1.0	µg/L	10.0		95.1	70-130	3.51	25	
Methyl tert-Butyl Ether (MTBE)	9.71	1.0	µg/L	10.0		97.1	70-130	6.86	25	
Methylene Chloride	8.29	5.0	µg/L	10.0		82.9	70-130	5.74	25	
4-Methyl-2-pentanone (MIBK)	98.8	10	µg/L	100		98.8	70-160	8.94	25	†
Naphthalene	7.21	2.0	µg/L	10.0		72.1	40-130	13.5	25	†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130	2.95	25	
Styrene	11.7	1.0	µg/L	10.0		117	70-130	2.61	25	
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108	70-130	5.13	25	
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130	6.80	25	
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	2.68	25	
Tetrahydrofuran	9.74	10	µg/L	10.0		97.4	70-130	16.9	25	J
Toluene	10.1	1.0	µg/L	10.0		101	70-130	2.53	25	
1,2,3-Trichlorobenzene	7.37	5.0	µg/L	10.0		73.7	70-130	15.3	25	
1,2,4-Trichlorobenzene	8.90	1.0	µg/L	10.0		89.0	70-130	5.15	25	
1,3,5-Trichlorobenzene	8.97	1.0	µg/L	10.0		89.7	70-130	4.79	25	
1,1,1-Trichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130	3.37	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	0.291	25	
Trichloroethylene	9.61	1.0	µg/L	10.0		96.1	70-130	5.56	25	
Trichlorofluoromethane (Freon 11)	9.14	2.0	µg/L	10.0		91.4	70-130	7.38	25	
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106	70-130	6.40	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107	70-130	7.29	25	
1,2,4-Trimethylbenzene	9.66	1.0	µg/L	10.0		96.6	70-130	1.85	25	
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	2.63	25	
Vinyl Chloride	7.05	2.0	µg/L	10.0		70.5	40-160	1.83	25	†
m+p Xylene	22.6	2.0	µg/L	20.0		113	70-130	4.46	25	
o-Xylene	11.5	1.0	µg/L	10.0		115	70-130	2.82	25	
Surrogate: 1,2-Dichloroethane-d4	21.8		µg/L	25.0		87.4	70-130			
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072641 - SW-846 3510C

Blank (B072641-BLK1)

Prepared & Analyzed: 05/09/13

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	10	µg/L							R-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							R-05
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							V-05
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072641 - SW-846 3510C

Blank (B072641-BLK1)

Prepared & Analyzed: 05/09/13

2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	5.0	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							

Surrogate: 2-Fluorophenol	95.2		µg/L	200		47.6	15-110			
Surrogate: Phenol-d6	84.4		µg/L	200		42.2	15-110			
Surrogate: Nitrobenzene-d5	77.9		µg/L	100		77.9	30-130			
Surrogate: 2-Fluorobiphenyl	70.1		µg/L	100		70.1	30-130			
Surrogate: 2,4,6-Tribromophenol	146		µg/L	200		72.9	15-110			
Surrogate: p-Terphenyl-d14	77.8		µg/L	100		77.8	30-130			

LCS (B072641-BS1)

Prepared & Analyzed: 05/09/13

Acenaphthene	69.9	5.0	µg/L	100		69.9	40-140			
Acenaphthylene	69.4	5.0	µg/L	100		69.4	40-140			
Acetophenone	86.0	10	µg/L	100		86.0	40-140			
Aniline	71.3	5.0	µg/L	100		71.3	40-140			
Anthracene	65.2	5.0	µg/L	100		65.2	40-140			
Benzidine	49.0	10	µg/L	100		49.0	40-140			R-05
Benzo(a)anthracene	109	5.0	µg/L	100		109	40-140			
Benzo(a)pyrene	89.7	5.0	µg/L	100		89.7	40-140			
Benzo(b)fluoranthene	110	5.0	µg/L	100		110	40-140			
Benzo(g,h,i)perylene	43.6	5.0	µg/L	100		43.6	40-140			
Benzo(k)fluoranthene	66.9	5.0	µg/L	100		66.9	40-140			
Benzoic Acid	24.0	10	µg/L	100		24.0	10-130			†
Bis(2-chloroethoxy)methane	94.6	10	µg/L	100		94.6	40-140			
Bis(2-chloroethyl)ether	89.8	10	µg/L	100		89.8	40-140			
Bis(2-chloroisopropyl)ether	80.9	10	µg/L	100		80.9	40-140			
Bis(2-Ethylhexyl)phthalate	88.2	10	µg/L	100		88.2	40-140			
4-Bromophenylphenylether	76.7	10	µg/L	100		76.7	40-140			
Butylbenzylphthalate	93.8	10	µg/L	100		93.8	40-140			
Carbazole	81.9	10	µg/L	100		81.9	40-140			
4-Chloroaniline	71.6	10	µg/L	100		71.6	40-140			
4-Chloro-3-methylphenol	76.5	10	µg/L	100		76.5	30-130			
2-Chloronaphthalene	45.0	10	µg/L	100		45.0	40-140			R-05

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072641 - SW-846 3510C										
LCS (B072641-BS1)										
Prepared & Analyzed: 05/09/13										
2-Chlorophenol	84.2	10	µg/L	100		84.2	30-130			
4-Chlorophenylphenylether	65.1	10	µg/L	100		65.1	40-140			
Chrysene	84.0	5.0	µg/L	100		84.0	40-140			
Dibenz(a,h)anthracene	57.8	5.0	µg/L	100		57.8	40-140			
Dibenzofuran	75.3	5.0	µg/L	100		75.3	40-140			
Di-n-butylphthalate	72.9	10	µg/L	100		72.9	40-140			V-05
1,2-Dichlorobenzene	74.5	5.0	µg/L	100		74.5	40-140			
1,3-Dichlorobenzene	71.4	5.0	µg/L	100		71.4	40-140			
1,4-Dichlorobenzene	72.1	5.0	µg/L	100		72.1	40-140			
3,3-Dichlorobenzidine	65.3	10	µg/L	100		65.3	40-140			
2,4-Dichlorophenol	82.2	10	µg/L	100		82.2	30-130			
Diethylphthalate	75.9	10	µg/L	100		75.9	40-140			
2,4-Dimethylphenol	83.1	10	µg/L	100		83.1	30-130			
Dimethylphthalate	80.3	10	µg/L	100		80.3	40-140			
4,6-Dinitro-2-methylphenol	102	10	µg/L	100		102	30-130			
2,4-Dinitrophenol	97.0	10	µg/L	100		97.0	30-130			
2,4-Dinitrotoluene	74.7	10	µg/L	100		74.7	40-140			
2,6-Dinitrotoluene	59.2	10	µg/L	100		59.2	40-140			
Di-n-octylphthalate	91.6	10	µg/L	100		91.6	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	79.7	10	µg/L	100		79.7	40-140			
Fluoranthene	84.0	5.0	µg/L	100		84.0	40-140			
Fluorene	69.8	5.0	µg/L	100		69.8	40-140			
Hexachlorobenzene	74.3	10	µg/L	100		74.3	40-140			
Hexachlorobutadiene	69.4	10	µg/L	100		69.4	40-140			
Hexachlorocyclopentadiene	71.1	10	µg/L	100		71.1	30-140			†
Hexachloroethane	60.9	10	µg/L	100		60.9	40-140			
Indeno(1,2,3-cd)pyrene	61.8	5.0	µg/L	100		61.8	40-140			
Isophorone	83.2	10	µg/L	100		83.2	40-140			
1-Methylnaphthalene	73.2	5.0	µg/L	100		73.2	40-140			
2-Methylnaphthalene	73.2	5.0	µg/L	100		73.2	40-140			
2-Methylphenol	91.4	10	µg/L	100		91.4	30-130			
3/4-Methylphenol	89.5	10	µg/L	100		89.5	30-130			
Naphthalene	68.3	5.0	µg/L	100		68.3	40-140			
2-Nitroaniline	70.0	10	µg/L	100		70.0	40-140			
3-Nitroaniline	85.0	10	µg/L	100		85.0	40-140			
4-Nitroaniline	66.3	10	µg/L	100		66.3	40-140			
Nitrobenzene	77.9	10	µg/L	100		77.9	40-140			
2-Nitrophenol	82.6	10	µg/L	100		82.6	30-130			
4-Nitrophenol	77.8	10	µg/L	100		77.8	10-130			†
N-Nitrosodimethylamine	53.7	5.0	µg/L	100		53.7	40-140			
N-Nitrosodiphenylamine	91.3	10	µg/L	100		91.3	40-140			
N-Nitrosodi-n-propylamine	75.2	10	µg/L	100		75.2	40-140			
Pentachloronitrobenzene	84.4	10	µg/L	100		84.4	40-140			V-16
Pentachlorophenol	101	10	µg/L	100		101	30-130			
Phenanthrene	69.8	5.0	µg/L	100		69.8	40-140			
Phenol	44.6	10	µg/L	100		44.6	20-130			†
Pyrene	93.4	5.0	µg/L	100		93.4	40-140			
Pyridine	44.8	5.0	µg/L	100		44.8	10-140			†
1,2,4,5-Tetrachlorobenzene	69.8	10	µg/L	100		69.8	40-140			
1,2,4-Trichlorobenzene	73.0	5.0	µg/L	100		73.0	40-140			
2,4,5-Trichlorophenol	72.8	10	µg/L	100		72.8	30-130			
2,4,6-Trichlorophenol	91.1	10	µg/L	100		91.1	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072641 - SW-846 3510C

LCS (B072641-BS1)

Prepared & Analyzed: 05/09/13

Surrogate: 2-Fluorophenol	132		µg/L	200		65.8	15-110			
Surrogate: Phenol-d6	90.0		µg/L	200		45.0	15-110			
Surrogate: Nitrobenzene-d5	78.6		µg/L	100		78.6	30-130			
Surrogate: 2-Fluorobiphenyl	72.9		µg/L	100		72.9	30-130			
Surrogate: 2,4,6-Tribromophenol	167		µg/L	200		83.5	15-110			
Surrogate: p-Terphenyl-d14	92.8		µg/L	100		92.8	30-130			

LCS Dup (B072641-BS1)

Prepared & Analyzed: 05/09/13

Acenaphthene	71.5	5.0	µg/L	100		71.5	40-140	2.18	20	
Acenaphthylene	70.3	5.0	µg/L	100		70.3	40-140	1.36	20	
Acetophenone	86.5	10	µg/L	100		86.5	40-140	0.475	20	
Aniline	72.1	5.0	µg/L	100		72.1	40-140	1.14	50	‡
Anthracene	64.2	5.0	µg/L	100		64.2	40-140	1.64	20	
Benzidine	62.6	10	µg/L	100		62.6	40-140	24.3 *	20	R-05
Benzo(a)anthracene	90.1	5.0	µg/L	100		90.1	40-140	19.2	20	
Benzo(a)pyrene	87.9	5.0	µg/L	100		87.9	40-140	2.08	20	
Benzo(b)fluoranthene	96.9	5.0	µg/L	100		96.9	40-140	12.2	20	
Benzo(g,h,i)perylene	39.5	5.0	µg/L	100		39.5 *	40-140	9.84	20	L-07
Benzo(k)fluoranthene	75.3	5.0	µg/L	100		75.3	40-140	11.8	20	
Benzoic Acid	22.6	10	µg/L	100		22.6	10-130	5.71	50	† ‡
Bis(2-chloroethoxy)methane	93.0	10	µg/L	100		93.0	40-140	1.74	20	
Bis(2-chloroethyl)ether	86.0	10	µg/L	100		86.0	40-140	4.28	20	
Bis(2-chloroisopropyl)ether	80.8	10	µg/L	100		80.8	40-140	0.0124	20	
Bis(2-Ethylhexyl)phthalate	80.4	10	µg/L	100		80.4	40-140	9.27	20	
4-Bromophenylphenylether	72.8	10	µg/L	100		72.8	40-140	5.19	20	
Butylbenzylphthalate	81.1	10	µg/L	100		81.1	40-140	14.6	20	
Carbazole	73.4	10	µg/L	100		73.4	40-140	11.0	20	
4-Chloroaniline	64.4	10	µg/L	100		64.4	40-140	10.6	20	
4-Chloro-3-methylphenol	69.5	10	µg/L	100		69.5	30-130	9.62	20	
2-Chloronaphthalene	58.1	10	µg/L	100		58.1	40-140	25.3 *	20	R-05
2-Chlorophenol	84.5	10	µg/L	100		84.5	30-130	0.379	20	
4-Chlorophenylphenylether	65.2	10	µg/L	100		65.2	40-140	0.200	20	
Chrysene	79.8	5.0	µg/L	100		79.8	40-140	5.10	20	
Dibenz(a,h)anthracene	55.5	5.0	µg/L	100		55.5	40-140	4.08	20	
Dibenzofuran	71.3	5.0	µg/L	100		71.3	40-140	5.43	20	
Di-n-butylphthalate	68.4	10	µg/L	100		68.4	40-140	6.33	20	V-05
1,2-Dichlorobenzene	73.6	5.0	µg/L	100		73.6	40-140	1.24	20	
1,3-Dichlorobenzene	70.1	5.0	µg/L	100		70.1	40-140	1.78	20	
1,4-Dichlorobenzene	71.9	5.0	µg/L	100		71.9	40-140	0.194	20	
3,3-Dichlorobenzidine	58.1	10	µg/L	100		58.1	40-140	11.7	20	
2,4-Dichlorophenol	80.2	10	µg/L	100		80.2	30-130	2.41	20	
Diethylphthalate	71.0	10	µg/L	100		71.0	40-140	6.75	20	
2,4-Dimethylphenol	81.6	10	µg/L	100		81.6	30-130	1.85	20	
Dimethylphthalate	76.7	10	µg/L	100		76.7	40-140	4.56	50	‡
4,6-Dinitro-2-methylphenol	85.6	10	µg/L	100		85.6	30-130	17.3	50	‡
2,4-Dinitrophenol	77.9	10	µg/L	100		77.9	30-130	21.9	50	‡
2,4-Dinitrotoluene	71.0	10	µg/L	100		71.0	40-140	5.13	20	
2,6-Dinitrotoluene	61.4	10	µg/L	100		61.4	40-140	3.63	20	
Di-n-octylphthalate	89.5	10	µg/L	100		89.5	40-140	2.24	20	
1,2-Diphenylhydrazine (as Azobenzene)	76.1	10	µg/L	100		76.1	40-140	4.58	20	
Fluoranthene	74.0	5.0	µg/L	100		74.0	40-140	12.6	20	
Fluorene	68.4	5.0	µg/L	100		68.4	40-140	2.04	20	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072641 - SW-846 3510C										
LCS Dup (B072641-BSD1)										
Prepared & Analyzed: 05/09/13										
Hexachlorobenzene	78.2	10	µg/L	100		78.2	40-140	5.06	20	
Hexachlorobutadiene	66.4	10	µg/L	100		66.4	40-140	4.42	20	
Hexachlorocyclopentadiene	68.4	10	µg/L	100		68.4	30-140	3.89	50	† ‡
Hexachloroethane	60.0	10	µg/L	100		60.0	40-140	1.54	50	‡
Indeno(1,2,3-cd)pyrene	55.2	5.0	µg/L	100		55.2	40-140	11.3	50	‡
Isophorone	80.2	10	µg/L	100		80.2	40-140	3.72	20	
1-Methylnaphthalene	70.7	5.0	µg/L	100		70.7	40-140	3.39	20	
2-Methylnaphthalene	68.3	5.0	µg/L	100		68.3	40-140	6.95	20	
2-Methylphenol	91.7	10	µg/L	100		91.7	30-130	0.382	20	
3/4-Methylphenol	88.0	10	µg/L	100		88.0	30-130	1.65	20	
Naphthalene	65.8	5.0	µg/L	100		65.8	40-140	3.71	20	
2-Nitroaniline	68.0	10	µg/L	100		68.0	40-140	2.97	20	
3-Nitroaniline	78.4	10	µg/L	100		78.4	40-140	8.19	20	
4-Nitroaniline	65.7	10	µg/L	100		65.7	40-140	0.879	20	
Nitrobenzene	74.7	10	µg/L	100		74.7	40-140	4.19	20	
2-Nitrophenol	78.8	10	µg/L	100		78.8	30-130	4.78	20	
4-Nitrophenol	67.2	10	µg/L	100		67.2	10-130	14.6	50	† ‡
N-Nitrosodimethylamine	52.5	5.0	µg/L	100		52.5	40-140	2.22	20	
N-Nitrosodiphenylamine	91.2	10	µg/L	100		91.2	40-140	0.142	20	
N-Nitrosodi-n-propylamine	73.9	10	µg/L	100		73.9	40-140	1.74	20	
Pentachloronitrobenzene	81.0	10	µg/L	100		81.0	40-140	4.15	20	V-16
Pentachlorophenol	84.8	10	µg/L	100		84.8	30-130	17.4	50	‡
Phenanthrene	67.8	5.0	µg/L	100		67.8	40-140	2.98	20	
Phenol	44.5	10	µg/L	100		44.5	20-130	0.0449	20	†
Pyrene	79.6	5.0	µg/L	100		79.6	40-140	16.0	20	
Pyridine	44.8	5.0	µg/L	100		44.8	10-140	0.112	50	† ‡
1,2,4,5-Tetrachlorobenzene	71.3	10	µg/L	100		71.3	40-140	2.04	20	
1,2,4-Trichlorobenzene	70.5	5.0	µg/L	100		70.5	40-140	3.55	20	
2,4,5-Trichlorophenol	74.0	10	µg/L	100		74.0	30-130	1.72	20	
2,4,6-Trichlorophenol	85.3	10	µg/L	100		85.3	30-130	6.61	50	‡
Surrogate: 2-Fluorophenol	128		µg/L	200		64.0	15-110			
Surrogate: Phenol-d6	87.0		µg/L	200		43.5	15-110			
Surrogate: Nitrobenzene-d5	74.8		µg/L	100		74.8	30-130			
Surrogate: 2-Fluorobiphenyl	73.0		µg/L	100		73.0	30-130			
Surrogate: 2,4,6-Tribromophenol	150		µg/L	200		75.0	15-110			
Surrogate: p-Terphenyl-d14	77.1		µg/L	100		77.1	30-130			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B072571 - SW-846 7470A Prep										
Blank (B072571-BLK1)				Prepared & Analyzed: 05/08/13						
Mercury	ND	0.00010	mg/L							
LCS (B072571-BS1)				Prepared & Analyzed: 05/08/13						
Mercury	0.00188	0.00010	mg/L	0.00200		93.8	80-120			
LCS Dup (B072571-BSD1)				Prepared & Analyzed: 05/08/13						
Mercury	0.00185	0.00010	mg/L	0.00200		92.4	80-120	1.46	20	
Duplicate (B072571-DUP1)				Source: 13E0159-01		Prepared & Analyzed: 05/08/13				
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B072571-MS1)				Source: 13E0159-01		Prepared & Analyzed: 05/08/13				
Mercury	0.00181	0.00010	mg/L	0.00200	ND	90.3	75-125			
Batch B072721 - SM 3030C										
Blank (B072721-BLK1)				Prepared: 05/09/13 Analyzed: 05/10/13						
Aluminum	ND	0.050	mg/L							
Calcium	ND	0.15	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.15	mg/L							
Potassium	ND	2.0	mg/L							
Sodium	ND	2.0	mg/L							
LCS (B072721-BS1)				Prepared: 05/09/13 Analyzed: 05/10/13						
Aluminum	2.00	0.050	mg/L	2.00		99.8	80-120			
Calcium	2.09	0.15	mg/L	2.00		104	80-120			
Iron	1.97	0.050	mg/L	2.00		98.3	80-120			
Magnesium	2.10	0.15	mg/L	2.00		105	80-120			
Potassium	20.4	2.0	mg/L	20.0		102	80-120			
Sodium	2.01	2.0	mg/L	2.00		100	80-120			
LCS Dup (B072721-BSD1)				Prepared: 05/09/13 Analyzed: 05/10/13						
Aluminum	2.00	0.050	mg/L	2.00		100	80-120	0.162	20	
Calcium	2.10	0.15	mg/L	2.00		105	80-120	0.419	20	
Iron	1.96	0.050	mg/L	2.00		98.2	80-120	0.0863	20	
Magnesium	2.11	0.15	mg/L	2.00		105	80-120	0.102	20	
Potassium	20.4	2.0	mg/L	20.0		102	80-120	0.229	20	
Sodium	2.00	2.0	mg/L	2.00		99.9	80-120	0.396	20	J
Duplicate (B072721-DUP1)				Source: 13E0159-01		Prepared: 05/09/13 Analyzed: 05/10/13				
Aluminum	5.57	0.050	mg/L		5.61			0.830	20	
Calcium	107	0.15	mg/L		108			0.680	20	
Iron	6.48	0.050	mg/L		6.52			0.691	20	
Magnesium	25.1	0.15	mg/L		25.3			0.929	20	
Potassium	7.54	2.0	mg/L		7.59			0.645	20	
Sodium	34.1	2.0	mg/L		34.4			0.849	20	

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072721 - SM 3030C

Matrix Spike (B072721-MS1)

Source: 13E0159-01

Prepared: 05/09/13 Analyzed: 05/10/13

Aluminum	7.71	0.050	mg/L	2.00	5.61	105	75-125			
Calcium	110	0.15	mg/L	2.00	108	110	75-125			
Iron	8.47	0.050	mg/L	2.00	6.52	97.4	75-125			
Magnesium	27.5	0.15	mg/L	2.00	25.3	107	75-125			
Potassium	28.4	2.0	mg/L	20.0	7.59	104	75-125			
Sodium	35.3	2.0	mg/L	2.00	34.4	42.8 *	75-125			MS-19

Batch B072722 - SM 3030C

Blank (B072722-BLK1)

Prepared: 05/09/13 Analyzed: 05/10/13

Antimony	ND	2.0	µg/L							
Arsenic	ND	0.80	µg/L							
Barium	ND	20	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	1.0	µg/L							
Chromium	1.5	2.0	µg/L							J
Cobalt	ND	2.0	µg/L							
Copper	ND	10	µg/L							
Lead	ND	2.0	µg/L							
Manganese	ND	2.0	µg/L							
Nickel	1.1	10	µg/L							J
Selenium	ND	10	µg/L							
Silver	ND	1.0	µg/L							
Thallium	ND	0.40	µg/L							
Vanadium	ND	10	µg/L							
Zinc	ND	20	µg/L							

LCS (B072722-BS1)

Prepared: 05/09/13 Analyzed: 05/10/13

Antimony	503	10	µg/L	500		101	80-120			
Arsenic	490	4.0	µg/L	500		98.1	80-120			
Barium	484	100	µg/L	500		96.8	80-120			
Beryllium	499	4.0	µg/L	500		99.9	80-120			
Cadmium	499	5.0	µg/L	500		99.7	80-120			
Chromium	494	10	µg/L	500		98.8	80-120			
Cobalt	471	10	µg/L	500		94.1	80-120			
Copper	511	50	µg/L	500		102	80-120			
Lead	485	10	µg/L	500		97.1	80-120			
Manganese	478	10	µg/L	500		95.7	80-120			
Nickel	495	50	µg/L	500		99.0	80-120			
Selenium	496	50	µg/L	500		99.2	80-120			
Silver	514	5.0	µg/L	500		103	80-120			
Thallium	466	2.0	µg/L	500		93.3	80-120			
Vanadium	494	50	µg/L	500		98.7	80-120			
Zinc	523	100	µg/L	500		105	80-120			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B072722 - SM 3030C

LCS Dup (B072722-BSD1)

Prepared: 05/09/13 Analyzed: 05/10/13

Antimony	509	10	µg/L	500		102	80-120	1.26	20	
Arsenic	489	4.0	µg/L	500		97.7	80-120	0.388	20	
Barium	482	100	µg/L	500		96.3	80-120	0.494	20	
Beryllium	505	4.0	µg/L	500		101	80-120	1.08	20	
Cadmium	499	5.0	µg/L	500		99.8	80-120	0.0865	20	
Chromium	493	10	µg/L	500		98.5	80-120	0.327	20	
Cobalt	464	10	µg/L	500		92.8	80-120	1.45	20	
Copper	507	50	µg/L	500		101	80-120	0.759	20	
Lead	486	10	µg/L	500		97.1	80-120	0.0329	20	
Manganese	480	10	µg/L	500		95.9	80-120	0.221	20	
Nickel	482	50	µg/L	500		96.4	80-120	2.67	20	
Selenium	493	50	µg/L	500		98.6	80-120	0.579	20	
Silver	513	5.0	µg/L	500		103	80-120	0.105	20	
Thallium	474	2.0	µg/L	500		94.8	80-120	1.62	20	
Vanadium	492	50	µg/L	500		98.3	80-120	0.367	20	
Zinc	526	100	µg/L	500		105	80-120	0.469	20	

Duplicate (B072722-DUP1)

Source: 13E0159-01

Prepared: 05/09/13 Analyzed: 05/10/13

Antimony	5.36	2.0	µg/L		5.42			1.10	20	
Arsenic	84.2	0.80	µg/L		85.0			0.954	20	
Barium	1080	20	µg/L		1100			1.82	20	
Beryllium	1.51	2.0	µg/L		1.56			2.80	20	J
Cadmium	0.153	1.0	µg/L		0.166			8.12	20	J
Chromium	14.3	2.0	µg/L		14.6			2.16	20	
Cobalt	14.4	2.0	µg/L		14.7			1.85	20	
Copper	23.9	10	µg/L		24.6			3.02	20	
Lead	5.81	2.0	µg/L		5.84			0.473	20	
Manganese	7840	100	µg/L		7600			3.07	20	
Nickel	12.1	10	µg/L		12.1			0.264	20	
Selenium	2.26	10	µg/L		2.46			8.46	20	J
Silver	ND	1.0	µg/L		ND			NC	20	
Thallium	1.03	0.40	µg/L		1.04			1.27	20	
Vanadium	38.3	10	µg/L		37.8			1.47	20	
Zinc	49.6	20	µg/L		52.2			5.21	20	

Matrix Spike (B072722-MS1)

Source: 13E0159-01

Prepared: 05/09/13 Analyzed: 05/10/13

Antimony	525	10	µg/L	500	5.42	104	75-125			
Arsenic	587	4.0	µg/L	500	85.0	100	75-125			
Barium	1500	100	µg/L	500	1100	78.5	75-125			
Beryllium	505	4.0	µg/L	500	1.56	101	75-125			
Cadmium	501	5.0	µg/L	500	0.166	100	75-125			
Chromium	511	10	µg/L	500	14.6	99.3	75-125			
Cobalt	485	10	µg/L	500	14.7	94.0	75-125			
Copper	527	50	µg/L	500	24.6	101	75-125			
Lead	500	10	µg/L	500	5.84	98.9	75-125			
Manganese	8020	100	µg/L	500	7600	84.5	75-125			
Nickel	504	50	µg/L	500	12.1	98.3	75-125			
Selenium	494	50	µg/L	500	2.46	98.4	75-125			
Silver	517	5.0	µg/L	500	ND	103	75-125			
Thallium	477	2.0	µg/L	500	1.04	95.2	75-125			
Vanadium	563	50	µg/L	500	37.8	105	75-125			
Zinc	565	100	µg/L	500	52.2	103	75-125			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Aluminum	CT,NH,NY,ME,VA
Calcium	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,NC,VA
Magnesium	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,NC,VA
Sodium	CT,NH,NY,ME,NC,VA
SW-846 6020A in Water	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,NC,ME,VA
Barium	CT,NH,NY,NC,ME,VA
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,NC,ME,VA
Cobalt	CT,NH,NY,NC,ME,VA
Copper	CT,NH,NY,NC,ME,VA
Lead	CT,NH,NY,NC,ME,VA
Manganese	CT,NH,NY,NC,ME,VA
Nickel	CT,NH,NY,NC,ME,VA
Selenium	CT,NH,NY,NC,ME,VA
Silver	CT,NH,NY,NC,ME,VA
Thallium	CT,NH,NY,NC,ME,VA
Vanadium	CT,NC,NH,NY,ME,VA
Zinc	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC,ME
Acrylonitrile	CT,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NC
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NH,NY,NC,ME
n-Butylbenzene	NY,NC,ME
sec-Butylbenzene	NY,NC,ME
tert-Butylbenzene	NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Water</i>	
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	NY,NC,ME
4-Chlorotoluene	NY,NC,ME
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC,ME
1,2-Dichlorobenzene	CT,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
trans-1,4-Dichloro-2-butene	NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NH,NY,NC,ME
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	NY,NC,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,NC,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC,ME
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	CT,NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NH,NY,NC,ME
1,2,4-Trichlorobenzene	CT,NH,NY,NC,ME
1,3,5-Trichlorobenzene	NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Water</i>	
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NY,NC,ME
1,3,5-Trimethylbenzene	NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

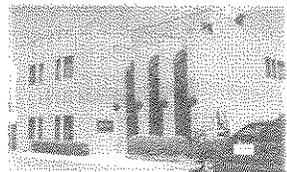
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as Azobenzene)	NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Falcon Eng RECEIVED BY: WK DATE: 5/4/13

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
If not, explain:
- 3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
 Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.3

- 5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19
 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____

- 8) Do all samples have the proper Acid pH: Yes No N/A _____
- 9) Do all samples have the proper Base pH: Yes No N/A _____
- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A _____

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber	2		8 oz amber/clear jar	
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic	1		Plastic Bag / Ziploc	
40 mL Vial - type listed below	3		PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments: _____

40 mL vials: # HCl 3 # Methanol _____
 # Bisulfate _____ # DI Water _____
 # Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Doc# 277

Rev. 3 May 2012



802539697188

Ship (PAU) date :
Fri 5/03/2013 5:21 pm
 COR US



Delivered
 Signed for by: B.FERRARA

Actual delivery :
Sat 5/04/2013 10:00 am
 MA LIS

Travel History

Date/Time	Activity	Location
- 5/04/2013 - Saturday		
10:00 am	Delivered	MA
8:14 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
8:00 am	At local FedEx facility	WINDSOR LOCKS, CT
6:58 am	At destination sort facility	EAST GRANBY, CT
3:37 am	Departed FedEx location	MEMPHIS, TN
- 5/03/2013 - Friday		
10:47 pm	Arrived at FedEx location	MEMPHIS, TN
8:45 pm	Left FedEx origin facility	CONCORD, NC
5:21 pm	Picked up Tendered at FedEx Office	SALISBURY, NC

Local Scan Time

Shipment Facts

Tracking number	802539697188	Service	FedEx Priority Overnight
Weight	20 lbs	Dimensions	16x15x11 in.
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	20 lbs / 9.1 kgs	Packaging	Your Packaging
Special handling section	For Saturday Delivery		

June 24, 2013

Josh Dunbar
Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607

Project Location: 828 MLK, Chapel Hill
Client Job Number:
Project Number: E13026
Laboratory Work Order Number: 13F0722

Enclosed are results of analyses for samples received by the laboratory on June 21, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager

Falcon Engineering
1210 Trinity Road, Suite 110
Raleigh, NC 27607
ATTN: Josh Dunbar

REPORT DATE: 6/24/2013

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E13026

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13F0722

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 828 MLK, Chapel Hill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Well #1	13F0722-01	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
Bolin Creek	13F0722-02	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6020A

Qualifications:

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Zinc

B075429-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: 828 MLK, Chapel Hill

Sample Description:

Work Order: 13F0722

Date Received: 6/21/2013

Field Sample #: Well #1

Sample ID: 13F0722-01

Start Date/Time: 6/20/2013 11:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 6/20/2013 11:25:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16	0.050	0.026	mg/L	1		SW-846 6010C	6/21/13	6/24/13 10:45	OP
Antimony	0.61	2.0	0.30	µg/L	2	J	SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Arsenic	8.3	0.80	0.70	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Barium	1100	200	24	µg/L	20		SW-846 6020A	6/21/13	6/24/13 12:24	KSH
Beryllium	5.5	0.80	0.15	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Cadmium	0.93	1.0	0.059	µg/L	2	J	SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Calcium	260	0.15	0.088	mg/L	1		SW-846 6010C	6/21/13	6/24/13 10:45	OP
Chromium	8.4	2.0	1.3	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Cobalt	23	2.0	0.067	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Copper	1200	100	1.6	µg/L	20		SW-846 6020A	6/21/13	6/24/13 12:24	KSH
Iron	13	0.050	0.026	mg/L	1		SW-846 6010C	6/21/13	6/24/13 10:45	OP
Lead	27	2.0	0.12	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Magnesium	47	0.15	0.037	mg/L	1		SW-846 6010C	6/21/13	6/24/13 10:45	OP
Manganese	1200	20	2.0	µg/L	20		SW-846 6020A	6/21/13	6/24/13 12:24	KSH
Mercury	0.00018	0.00010	0.000048	mg/L	1		SW-846 7470A	6/21/13	6/24/13 12:19	SAJ
Nickel	70	10	0.13	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Potassium	42	2.0	0.46	mg/L	1		SW-846 6010C	6/21/13	6/24/13 10:45	OP
Selenium	18	10	1.5	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Silver	0.27	1.0	0.13	µg/L	2	J	SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Sodium	52	2.0	1.9	mg/L	1		SW-846 6010C	6/21/13	6/24/13 10:45	OP
Thallium	0.48	0.40	0.073	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Vanadium	71	10	1.1	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:15	KSH
Zinc	2200	200	39	µg/L	20		SW-846 6020A	6/21/13	6/24/13 12:24	KSH



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 828 MLK, Chapel Hill

Sample Description:

Work Order: 13F0722

Date Received: 6/21/2013

Field Sample #: Bolin Creek

Sampled: 6/20/2013 11:50

Sample ID: 13F0722-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.29	0.050	0.026	mg/L	1		SW-846 6010C	6/21/13	6/24/13 11:02	OP
Antimony	ND	2.0	0.30	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Arsenic	0.90	0.80	0.70	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Barium	27	20	2.4	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Beryllium	ND	0.80	0.15	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Cadmium	ND	1.0	0.059	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Calcium	16	0.15	0.088	mg/L	1		SW-846 6010C	6/21/13	6/24/13 11:02	OP
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Cobalt	0.37	2.0	0.067	µg/L	2	J	SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Copper	2.6	10	0.16	µg/L	2	J	SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Iron	0.86	0.050	0.026	mg/L	1		SW-846 6010C	6/21/13	6/24/13 11:02	OP
Lead	0.50	2.0	0.12	µg/L	2	J	SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Magnesium	5.3	0.15	0.037	mg/L	1		SW-846 6010C	6/21/13	6/24/13 11:02	OP
Manganese	100	2.0	0.20	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Mercury	ND	0.00010	0.000048	mg/L	1		SW-846 7470A	6/21/13	6/24/13 12:20	SAJ
Nickel	1.2	10	0.13	µg/L	2	J	SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Potassium	2.3	2.0	0.46	mg/L	1		SW-846 6010C	6/21/13	6/24/13 11:02	OP
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Sodium	7.8	2.0	1.9	mg/L	1		SW-846 6010C	6/21/13	6/24/13 11:02	OP
Thallium	ND	0.40	0.073	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Vanadium	ND	10	1.1	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH
Zinc	45	20	3.9	µg/L	2		SW-846 6020A	6/21/13	6/24/13 12:09	KSH

Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13F0722-01 [Well #1]	B075426	50.0	50.0	06/21/13
13F0722-02 [Bolin Creek]	B075426	50.0	50.0	06/21/13

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13F0722-01 [Well #1]	B075429	50.0	50.0	06/21/13
13F0722-02 [Bolin Creek]	B075429	50.0	50.0	06/21/13

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13F0722-01 [Well #1]	B075437	6.00	6.00	06/21/13
13F0722-02 [Bolin Creek]	B075437	6.00	6.00	06/21/13

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B075426 - SW-846 3005A

Blank (B075426-BLK1)

Prepared: 06/21/13 Analyzed: 06/24/13

Aluminum	ND	0.050	mg/L							
Calcium	ND	0.15	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.15	mg/L							
Potassium	ND	2.0	mg/L							
Sodium	ND	2.0	mg/L							

LCS (B075426-BS2)

Prepared: 06/21/13 Analyzed: 06/24/13

Aluminum	2.08	0.050	mg/L	2.00		104	80-120			
Calcium	2.11	0.15	mg/L	2.00		106	80-120			
Iron	2.05	0.050	mg/L	2.00		102	80-120			
Magnesium	2.12	0.15	mg/L	2.00		106	80-120			
Potassium	20.2	2.0	mg/L	20.0		101	80-120			
Sodium	2.05	2.0	mg/L	2.00		103	80-120			

LCS Dup (B075426-BSD2)

Prepared: 06/21/13 Analyzed: 06/24/13

Aluminum	2.03	0.050	mg/L	2.00		101	80-120	2.54	20	
Calcium	2.06	0.15	mg/L	2.00		103	80-120	2.58	20	
Iron	2.01	0.050	mg/L	2.00		101	80-120	1.72	20	
Magnesium	2.07	0.15	mg/L	2.00		104	80-120	2.16	20	
Potassium	19.7	2.0	mg/L	20.0		98.6	80-120	2.22	20	
Sodium	2.01	2.0	mg/L	2.00		101	80-120	2.16	20	

Batch B075429 - SW-846 3005A

Blank (B075429-BLK1)

Prepared: 06/21/13 Analyzed: 06/24/13

Antimony	ND	2.0	µg/L							
Arsenic	ND	0.80	µg/L							
Barium	ND	20	µg/L							
Beryllium	ND	0.80	µg/L							
Cadmium	ND	1.0	µg/L							
Chromium	ND	2.0	µg/L							
Cobalt	ND	2.0	µg/L							
Copper	ND	10	µg/L							
Lead	ND	2.0	µg/L							
Manganese	ND	2.0	µg/L							
Nickel	ND	10	µg/L							
Selenium	ND	10	µg/L							
Silver	ND	1.0	µg/L							
Thallium	ND	0.40	µg/L							
Vanadium	ND	10	µg/L							
Zinc	ND	20	µg/L							

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B075429 - SW-846 3005A

LCS (B075429-BS1)

Prepared: 06/21/13 Analyzed: 06/24/13

Antimony	279	5.0	µg/L	250		112	80-120			
Arsenic	270	2.0	µg/L	250		108	80-120			
Barium	269	50	µg/L	250		108	80-120			
Beryllium	270	2.0	µg/L	250		108	80-120			
Cadmium	279	2.5	µg/L	250		112	80-120			
Chromium	267	5.0	µg/L	250		107	80-120			
Cobalt	262	5.0	µg/L	250		105	80-120			
Copper	269	25	µg/L	250		108	80-120			
Lead	278	5.0	µg/L	250		111	80-120			
Manganese	260	5.0	µg/L	250		104	80-120			
Nickel	264	25	µg/L	250		105	80-120			
Selenium	272	25	µg/L	250		109	80-120			
Silver	284	2.5	µg/L	250		114	80-120			
Thallium	258	1.0	µg/L	250		103	80-120			
Vanadium	264	25	µg/L	250		106	80-120			
Zinc	279	50	µg/L	250		112	80-120			

LCS Dup (B075429-BSD1)

Prepared: 06/21/13 Analyzed: 06/24/13

Antimony	252	5.0	µg/L	250		101	80-120	10.0	20	
Arsenic	245	2.0	µg/L	250		98.2	80-120	9.57	20	
Barium	245	50	µg/L	250		98.0	80-120	9.21	20	
Beryllium	244	2.0	µg/L	250		97.8	80-120	9.87	20	
Cadmium	252	2.5	µg/L	250		101	80-120	10.2	20	
Chromium	247	5.0	µg/L	250		98.7	80-120	7.98	20	
Cobalt	244	5.0	µg/L	250		97.5	80-120	7.06	20	
Copper	252	25	µg/L	250		101	80-120	6.57	20	
Lead	251	5.0	µg/L	250		100	80-120	10.1	20	
Manganese	243	5.0	µg/L	250		97.2	80-120	6.78	20	
Nickel	247	25	µg/L	250		99.0	80-120	6.37	20	
Selenium	251	25	µg/L	250		100	80-120	8.23	20	
Silver	254	2.5	µg/L	250		102	80-120	11.0	20	
Thallium	233	1.0	µg/L	250		93.2	80-120	10.3	20	
Vanadium	240	25	µg/L	250		96.1	80-120	9.53	20	
Zinc	257	50	µg/L	250		103	80-120	8.13	20	

Duplicate (B075429-DUP1)

Source: 13F0722-02

Prepared: 06/21/13 Analyzed: 06/24/13

Antimony	ND	2.0	µg/L		ND			NC	20	
Arsenic	0.827	0.80	µg/L		0.904			8.94	20	
Barium	27.9	20	µg/L		26.9			3.61	20	
Beryllium	ND	0.80	µg/L		ND			NC	20	
Cadmium	ND	1.0	µg/L		ND			NC	20	
Chromium	ND	2.0	µg/L		ND			NC	20	
Cobalt	0.359	2.0	µg/L		0.367			2.22	20	J
Copper	2.57	10	µg/L		2.59			0.793	20	J
Lead	0.483	2.0	µg/L		0.501			3.55	20	J
Manganese	99.9	2.0	µg/L		102			1.74	20	
Nickel	1.03	10	µg/L		1.18			14.0	20	J
Selenium	ND	10	µg/L		ND			NC	20	
Silver	ND	1.0	µg/L		ND			NC	20	
Thallium	ND	0.40	µg/L		ND			NC	20	
Vanadium	ND	10	µg/L		ND			NC	20	
Zinc	7.86	20	µg/L		45.3			141 *	20	R-04, J

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B075429 - SW-846 3005A

Matrix Spike (B075429-MS1)

Source: 13F0722-02

Prepared: 06/21/13 Analyzed: 06/24/13

Antimony	257	5.0	µg/L	250	ND	103	75-125			
Arsenic	253	2.0	µg/L	250	0.904	101	75-125			
Barium	272	50	µg/L	250	26.9	97.9	75-125			
Beryllium	248	2.0	µg/L	250	ND	99.1	75-125			
Cadmium	252	2.5	µg/L	250	ND	101	75-125			
Chromium	246	5.0	µg/L	250	ND	98.2	75-125			
Cobalt	243	5.0	µg/L	250	0.367	96.9	75-125			
Copper	248	25	µg/L	250	2.59	98.0	75-125			
Lead	255	5.0	µg/L	250	0.501	102	75-125			
Manganese	359	5.0	µg/L	250	102	103	75-125			
Nickel	242	25	µg/L	250	1.18	96.4	75-125			
Selenium	253	25	µg/L	250	ND	101	75-125			
Silver	250	2.5	µg/L	250	ND	99.9	75-125			
Thallium	234	1.0	µg/L	250	ND	93.7	75-125			
Vanadium	245	25	µg/L	250	ND	98.1	75-125			
Zinc	261	50	µg/L	250	45.3	86.4	75-125			

Batch B075437 - SW-846 7470A Prep

Blank (B075437-BLK1)

Prepared: 06/21/13 Analyzed: 06/24/13

Mercury	ND	0.00010	mg/L							
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LCS (B075437-BS1)

Prepared: 06/21/13 Analyzed: 06/24/13

Mercury	0.00198	0.00010	mg/L	0.00200		99.2	80-120			
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LCS Dup (B075437-BSD1)

Prepared: 06/21/13 Analyzed: 06/24/13

Mercury	0.00201	0.00010	mg/L	0.00200		100	80-120	1.15	20	
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FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
 - R-04 Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Aluminum	CT,NH,NY,ME,VA
Calcium	CT,NH,NY,ME,NC,VA
Iron	CT,NH,NY,ME,NC,VA
Magnesium	CT,NH,NY,ME,NC,VA
Potassium	CT,NH,NY,ME,NC,VA
Sodium	CT,NH,NY,ME,NC,VA
SW-846 6020A in Water	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,NC,ME,VA
Barium	CT,NH,NY,NC,ME,VA
Beryllium	CT,NH,NY,NC,ME,VA
Cadmium	CT,NH,NY,RI,NC,ME,VA
Chromium	CT,NH,NY,NC,ME,VA
Cobalt	CT,NH,NY,NC,ME,VA
Copper	CT,NH,NY,NC,ME,VA
Lead	CT,NH,NY,NC,ME,VA
Manganese	CT,NH,NY,NC,ME,VA
Nickel	CT,NH,NY,NC,ME,VA
Selenium	CT,NH,NY,NC,ME,VA
Silver	CT,NH,NY,NC,ME,VA
Thallium	CT,NH,NY,NC,ME,VA
Vanadium	CT,NC,NH,NY,ME,VA
Zinc	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012



803285755115

Ship (P/U) date:
Thur 6/20/2013 4:29 pm
RAL US



Delivered

Signed for by: P.BLAKE

Actual delivery:
Fri 6/21/2013 9:14 am
MA US

Travel History

▲ Date/Time	Activity	Location
- 6/21/2013 - Friday		
9:14 am	Delivered	MA
8:08 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:34 am	At local FedEx facility	WINDSOR LOCKS, CT
6:15 am	At destination sort facility	EAST GRANBY, CT
4:39 am	Departed FedEx location	INDIANAPOLIS, IN
12:20 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 6/20/2013 - Thursday		
8:50 pm	Left FedEx origin facility	RALEIGH, NC
4:29 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

Local Scan Time

Shipment Facts

Tracking number	803285755115	Service	FedEx Priority Overnight
Weight	32 lbs	Dimensions	23x13x16 in.
Delivered To	Receptionist/Front Desk	Total pieces	1
Total shipment weight	32 lbs / 14.5 kgs	Shipper reference	80
Packaging	Your Packaging	Special handling section	Deliver Weekday, Additional Handling Surcharge

Chris Collins

From: Lisa Worthington [lisa.worthington@contestlabs.com]
Sent: Thursday, June 20, 2013 3:37 PM
To: 'Login@ContestLabs.com'; 'Chris Collins'; 'Andrea Palpini'
Subject: FW: Falcon 24hr TAT COC
Attachments: photo.JPG; ATT00295.txt

This is arriving tomorrow. Please use 6/21 as the receipt date and log in for a 1 day TAT. The metals list he needs is the TAL 23 list.
Thanks

-----Original Message-----

From: Tiffany Butz [<mailto:tiffany.butz@contestlabs.com>]
Sent: Thursday, June 20, 2013 3:31 PM
To: Lisa Worthington
Subject: Falcon 24hr TAT COC

39 Spruce St.
 East Longmeadow, MA. 01028
 P: 413-525-2332
 F: 413-525-6405
 www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Fallon RECEIVED BY: PB DATE: 6.21.13

- 1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included
- 2) Does the chain agree with the samples? (Yes) (No)
 If not, explain: _____
- 3) Are all the samples in good condition? (Yes) No
 If not, explain: _____
- 4) How were the samples received:
 On Ice Direct from Sampling Ambient In Cooler(s)
- Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A
 Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.9
- 5) Are there Dissolved samples for the lab to filter? Yes (No)
 Who was notified _____ Date _____ Time _____
- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
 Who was notified _____ Date _____ Time _____

- 7) Location where samples are stored: log in
 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved
 Client Signature: _____
- 8) Do all samples have the proper Acid pH: Yes No N/A _____
- 9) Do all samples have the proper Base pH: Yes No N/A _____
- 10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	<u>2</u>	Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: Received Well #2 instead of Well #1
Fed ex # 8032 8575 5115

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen: _____
Doc# 277 # Bisulfate _____	# DI Water _____	
Rev. 3 May 2012 # Thiosulfate _____	Unpreserved _____	

APPENDIX F
RESUMES OF ENVIRONMENTAL PROFESSIONALS

JOSHUA D. DUNBAR, PE



Josh is a registered Professional Engineer (PE) in the State of North Carolina who has over 14 years experience in a variety of consulting and engineering applications. This includes project management and technical experience in environmental due diligence, indoor air quality investigations, multi-media environmental assessments, air quality permitting and dispersion modeling, emission inventories, regulatory compliance support, hazardous waste management, pollution control/prevention projects, preliminary engineering design specifications, and evaluation of various control technologies. Josh has conducted a variety of environmental due diligence assessments, which have included Phase I and Phase II ESAs, UST Closure Assessments, Limited Site Assessments, and Environmental compliance audits. He has also assisted clients in obtaining permits to construct and operate air emission sources at major (Title V/PSD) and minor industrial facilities. He has managed and performed air dispersion

modeling efforts for air toxics impact and risk assessment purposes. Through these efforts he has successfully assisted numerous clients in complying with complex environmental regulations.

In the area of waste management, Josh has managed efforts in assessment and remediation projects involving leaking underground petroleum storage tanks and above ground chemical storage tanks. He has also managed and assisted in efforts to remove Underground Storage Tanks (UST) and perform integrity testing of Aboveground Storage Tank (AST) as part of the Resource Conservation and Recovery Act (RCRA) requirements. Josh has performed Phase I and Phase II environmental site assessments of commercial, residential, and industrial properties in accordance with various ASTM standards, as well as US EPA's All Appropriate Inquiries (AAI) Rule. Facility compliance audits have included a review of multi-media environmental programs, an evaluation of exceptions found, and development of recommendations for achieving compliance.

In the area of compliance assistance, Josh has satisfied the various recordkeeping and reporting requirements associated with Federal and State regulatory programs including SARA Title III/EPCRA, NSPS, NESHAP/MACT, and State VOC and air toxics rules. He has assisted clients in documentation and preparing Title V compliance certifications. As part of these efforts, Josh has been responsible for the development and design of several emission/permit environmental tracking systems that have been used to comply with extensive recordkeeping and reporting requirements. Josh has prepared test plans and managed stack testing efforts in conjunction with NESHAP and NSPS applicability assessment for various industries.

Josh has prepared applications and obtained construction and operating permits for various industries including cement, chemical, personal hygiene products, wood products, construction products (i.e., aggregates, ready mix concrete, and asphalt), and waste management facilities. He has participated in several successful Prevention of Significant Deterioration (PSD) and PSD avoidance projects. He has conducted permitting projects for major industrial facility modifications and prepared Title V and synthetic minor permit applications in various States. In association with permitting efforts, he has conducted dispersion modeling projects for



JOSHUA D. DUNBAR, PE (CONTINUED)

demonstration of compliance with National Ambient Air Quality Standards (NAAQS), PSD increments, and State air toxics standards.

In the area of water pollution prevention and control, Josh has conducted wastewater discharge compliance investigations and storm water evaluations at multiple industrial facilities. These efforts have included managing and assisting in the site design and layout to comply with National Pollution Discharge Elimination Systems (NPDES) permitting requirements for numerous sites. He has assisted in preparing spill prevention, control, and countermeasure (SPCC) plans and oil discharge contingency plans under Federal and State requirements for oil and chemical storage facilities. He has also prepared storm water pollution prevention plans (SWP3) for a number of facilities.

Josh is also experienced in the field of Indoor Air Quality Assessments. He has conducted numerous microbial assessments that involved the identification and recommendations regarding the presence of such molds as *Stachybotrys*, *Apergillus* and *Penicillium*. These assessments were used to improve and identify concerned areas with regard to the Indoor Air Quality within occupied buildings. Assessments have included both commercial and residential properties. Josh has also assisted in the performance assessment of HVAC systems with regard to adequate Indoor Air Quality as described in ASHRAE Standards 62 and overall occupant thermal comfort as outlined in ASHRAE Standard 55. In addition to microbial and HVAC assessments, Josh has assisted in the sampling efforts for the identification of Asbestos containing material used in indoor environments. Josh is an Accredited Asbestos Inspector and Management Planner. He has also been trained in the use and implementation of lead inspections within buildings using portable XRF instrumentation.

EDUCATION

B.S. | Mechanical Engineering | North Carolina State University | 1999
Graphic Communications | North Carolina State University | 1999

REGISTRATION AND CERTIFICATIONS

Professional Engineer (PE), North Carolina Board of Examiners (036969)
OSHA 40-hour HAZWOPER Training
Hazardous Waste Site Supervisor Training
Permit-Required Confined Space Training
AHERA Building Inspector (Accreditation # 12060)
AHERA Management Planner (Accreditation # 20900)
Certified Environmental Inspector, Environmental Assessment Association



ARIC GEDA, PE



Aric is not only a professional engineer, but also a licensed builder with over 26 years of experience. His extensive breadth of experience includes the fields of Special Inspections, materials testing, environmental, geotechnical, and facilities engineering. With this broad based knowledge, Aric is an ideal point of contact for projects requiring several consulting service lines. As Construction Services Manager, Aric's primary responsibilities include the growth and management of the overall construction materials testing and inspections program, which includes supervising a staff consisting of expert project managers, technicians, inspectors, and laboratory technicians.

Aric enjoys a special involvement in the Economic Development of North Carolina. Aric is an active member and participant in numerous Economic Development Groups including NCEDA, Research Triangle Partnership, Pitt County Committee of 100, North Carolina's Northeast Commission, the Kerr Tar Regional Council of Governments, the Upper Coastal Plain Regional Council of Governments, along with the Raleigh and Durham Chambers. Aric has established numerous relationships with private Economic Development consulting firms and County Economic Developers across the region providing consulting services in support of Economic Development.

EDUCATION

B.S., Geological Engineering | Michigan Technological University | 1987
Professional Engineer | North Carolina | 035138
Professional Engineer | Michigan | 39843
Licensed Builder | Michigan
ASTM Technical and Professional Risk-Based Corrective Action Certification

SPECIAL TALENTS

Aric has become heavily involved in the NC Department of Commerce Certified Sites Program. Aric has been involved with Environmental, Wetland, NEPA, and Geotechnical consulting and engineering on 18 Site Certifications across the region. Due to his extensive experience with the program, Aric was appointed as a technical advisor to the Certified Sites Steering Committee by Secretary Crisco and is currently serving a minimum two year term that started in September 2010.

SPOTLIGHT PROJECT

Selma Crossings Certified Rail Site | Selma, NC

Selma Crossings is a 163 acre site that has successfully gone through the 32 step process of the Department of Commerce's Certified Sites Program. The Site is the only "Dual Rail" Certified Site, having a Rail Crossing bounding the Northern and Western Boundaries in addition to extensive I-95 frontage along the southern boundary. Aric teamed with representatives of Sanford Holshouser, CSX, and Norfolk Southern, providing Environmental, Wetland, NEPA, Geotechnical, and Planning services for the proposed project. This challenging project took over 2 years to complete, with Secretary Crisco presenting Site Certification to Selma Town Council in March of 2012.

