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December 7, 2015

458605.XO.XO

Mr. Matt Aufman
Inactive Hazardous Sites Branch – REC Program
NCDEQ – Division of Waste Management
217 West Jones St.
Raleigh, North Carolina 27603

Subject: *Phase II Remedial Investigation Work Plan Addendum*
IHSB Site Name: Towers Road Disposal Area
IHSB Site ID No.: NONCD0002893

Dear Mr. Aufman:

On behalf of Harvey Point Defense Testing Activity, CH2M is pleased to submit the referenced document for the Towers Road Disposal Area in Hertford, North Carolina. This technical memorandum presents changes in the investigation approach that are necessary because of the discovery of material potentially presenting an explosive hazard (MPPEH) at the 2nd Street Disposal Area during implementation of the remedial action and laboratory quality concerns associated with previously reported volatile organic compound results. Funding to complete this work and authorization to proceed from the Naval Ordnance Safety and Security Activity and Department of Defense Explosives Safety Board has been received. Although there have been project delays resulting from the discovery of MPPEH, efforts are ongoing to identify ways to expedite the schedule to meet the mandatory Remedial Investigation work phase completion deadline (April 2016) outlined in the REC Administrative Agreement. An updated project schedule is provided as part of the attached technical memorandum and will be periodically updated.

Please contact me at 757-671-6231 if you have any questions or comments.

Sincerely,
CH2M

Kim Henderson
Registered Site Manager

cc: Mr. Brian Lee/HPDTA
Mr. Rodger Jackson/NAVFAC
Mr. Kirk Stevens/NAVFAC
Ms. Janna Staszak/CH2M

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME TOWERS ROAD DISPOSAL AREAS
DATE & NAME OF DOCUMENT Phase II Remedial Investigation Work Plan Addendum, October 2015
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Harvey Point Defense Testing Activity
Name of Remediating Party

Signature of Remediating Party

11-30-2015
Date

NOTARIZATION

North Carolina (Enter State)

Perquimans **COUNTY**

I, Deborah Lyman, a Notary Public of said County and State, do hereby certify that Patrick N. Robertson did personally appear and sign before me this day, produced proper identification in the form of Drivers License, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 30 day of NOV, 2015.

Deborah O Lyman
Notary Public (signature)

My commission expires: 24 July 2020

(OFFICIAL SEAL)
DEBORAH O LYMAN
NOTARY
MY COMMISSION EXPIRES
24 July 2020
PUBLIC
PERQUIMANS COUNTY, N.C.

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME TOWERS ROAD DISPOSAL AREAS
DATE & NAME OF DOCUMENT Phase II Remedial Investigation Work Plan Addendum October 2015
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

KIM HENDERSON
Name of Registered Site Manager

Signature of Registered Site Manager

12·7·15
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act N.C.G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

KIM HENDERSON
Name of Registered Site Manager

Signature of Registered Site Manager

12·7·15
Date

NOTARIZATION

VIRGINIA (Enter State)

Virginia Beach COUNTY

I, Rebecca Singleton, a Notary Public of said County and State, do hereby certify that Kim Henderson did personally appear and sign before me this day, produced proper identification in the form of Drivers License, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 7th day of December 2015

(OFFICIAL SEAL)

Notary Public (signature)

My commission expires: 12/31/16

REBECCA S SINGLETON
NOTARY PUBLIC
MY COMMISSION NUMBER 180890
COMMONWEALTH OF VIRGINIA

Document Certification Form No. DC - II
(Revised 8/11)

Phase II Remedial Investigation Work Plan Addendum IHSB Site Name: Towers Road Disposal Area IHSB Site ID No.: NONCD0002893

PREPARED FOR:	North Carolina Department of Environmental Quality, Inactive Hazardous Sites Branch - REC Program
COPIES:	Brian Lee/HPDTA Rodger Jackson/NAVFAC Kirk Stevens/NAVFAC
PREPARED BY:	CH2M
DATE:	October 2015

1 Introduction

This technical memorandum has been prepared to supplement the *Final Phase II Remedial Investigation Work Plan, Towers Road Disposal Areas, Harvey Point Defense Training Activity, Hertford, North Carolina, April 2014* (herein referred to as the Phase II WP). It presents changes in the investigation approach (primarily Phase II WP Section 3) that are necessary because of the discovery of material potentially presenting an explosive hazard (MPPEH) at the 2nd Street Disposal Area during initial implementation of the soil remedial action (RA) as well as laboratory quality concerns associated with previously reported volatile organic compound (VOC) results.

Preparation of this technical memorandum was conducted on behalf of Harvey Point Defense Testing Activity (HPDTA) and Naval Facilities Engineering Command (NAVFAC) in accordance with the Executed Registered Environmental Consultant (REC) Administrative Agreement (North Carolina Department of Environment and Natural Resources, 2013). The overall objectives of the Phase II Remedial Investigation (RI) have not changed, just the investigation approach; therefore, the Phase II WP has not been revised.

2 Background

The Towers Road Disposal Area (TRDA) consists of the 2nd Street Disposal Area and 5th Street Disposal Area within HPDTA (**Phase II WP Figure 1** and **Phase II WP Figure 2**). The Phase II RI was initiated in May 2014 to delineate the lateral and vertical extents of contamination in each area of concern and characterize site conditions sufficiently to conduct a feasibility study to support a proposed remedy. To date, the Phase II RI activities that have been completed consist of mobilization and site setup, utility clearance, background soil and groundwater sampling, and pre-soil RA surface and subsurface sampling. Background and pre-soil RA sampling data were used to define the horizontal and vertical extents of soil contamination before initiating the soil RA. The soil RA, consisting of the excavation and offsite transportation and disposal of waste and impacted soil, was initiated in June 2014 to address potential human health risks associated with exposure to waste and constituents in soil. All onsite activities were stopped in August 2014 because of the discovery of MPPEH, determined to be whole and parts of 3.5-inch M29 Practice Rockets, in the excavated material at the 2nd Street Disposal Area on August 1, 2014.

For the 5th Street Disposal Area, an Explosives Safety Submission (ESS[1])-Determination Request was developed and submitted to Naval Ordnance Safety and Security Activity (NOSSA) in October 2014 to determine whether an ESS was required to resume work. As a result of MPPEH not being identified within the 5th Street Disposal Area and only a limited amount of RA and Phase II RI activities remaining at that area, NOSSA responded to the ESS Determination Request in November 2014 indicating that an ESS was not required to resume activities.

Because of known MPPEH present, an ESS was developed for the 2nd Street Disposal Area to ensure applicable Department of Defense (DoD) regulations and standards are applied and health and safety procedures are identified and implemented to allow the onsite RA and Phase II RI work to resume safely. The final ESS was approved in September 2015.

3 Phase II Remedial Investigation Changes

The remaining Phase II RI activities consist of post-soil RA groundwater grab sampling, monitoring well installation, groundwater elevation measurement, monitoring well groundwater sampling, site surveying, and investigation-derived waste management.

Munitions response support is required due to the changes in site conditions encountered. Additionally, data quality concerns were recently identified associated with VOCs analysis previously performed by Environmental Conservation Laboratories Inc. As a result, there is uncertainty with the detected constituents and reported concentrations of VOCs in soil and groundwater at TRDA. Uncertainties in the soil data are being addressed as part of the soil RA confirmation sampling as described in the RA Work Plan Addendum (CH2M HILL, 2015c). The following changes will be made to the Phase II RI activities:

- Unexploded Ordnance (UXO) Support Staffing

All staff will receive Recognize, Retreat, and Report (RRR) training before working onsite.

  - At a minimum, one UXO technician will be onsite to provide anomaly avoidance support for intrusive activities at the 2nd Street Disposal Area in accordance with the procedures outlined in the ESS. The UXO technician will use visual observations aided by a handheld geophysical detection instrument, as necessary, to screen sample locations for the potential presence of munitions and explosives of concern (MEC) or MPPEH before initiating intrusive activities. If the potential for MEC or MPPEH is identified, an alternate sample location will be selected and screened.
  - Although anomaly avoidance will be practiced during activities at the 2nd Street Disposal Area, the ESS allows for the movement, transportation, and storage of MEC/MPPEH. Therefore, if at any point during the field investigation an MEC/MPPEH item is suspected to be present, work will be temporarily stopped and UXO construction support will be mobilized in accordance with the ESS. At a minimum, one senior UXO supervisor (SUXOS) and one UXO quality control specialist (UXOQCS)/UXO safety officer (UXOSO) will be mobilized to the site to provide construction support in accordance with the procedures outlined in the ESS. The SUXOS directly controls any intrusive activities in order to achieve maximum operational safety and efficiency. The UXOQCS/ UXOSO will be onsite to oversee the UXO-related health and safety and quality control operations in accordance with the ESS.
  - During work at the 5th Street Disposal Area, UXO-qualified support will be on call to provide support, if needed. If the field team encounters suspected MEC/MPPEH, the field team will retreat from the area and report the suspected items to the UXO technician and project

[1] An ESS is a document required for intentional physical content with MEC and/or MPPEH and to conduct intrusive activities at sites known or suspected to contain MEC and/or MEC to ensure applicable Department of Defense regulations and standards are applied and health and safety procedures are identified and implemented to allow the work to be conducted safely.

manager. The UXO technician will mobilize to the site to assess the suspected item(s). If MEC/MPPEH are encountered, NOSSA will be notified and work will not proceed until direction is received from NOSSA.

  - Only onsite UXO technicians will have the ability to determine whether any items discovered are considered MEC or MPPEH. MEC/MPPEH identified will be addressed in accordance with the ESS.

- Grab Groundwater Sampling
  - The analytical laboratory identified in the Phase II WP quality assurance project plan (QAPP) will not be used, as the work is being conducted under a different contract. Empirical Laboratories, LLC (Empirical) has been procured. Empirical is a DoD Environmental Laboratory Accreditation Program (ELAP)-certified laboratory (**Attachment 1**) capable of achieving the project quantitation limit goals identified in the Phase II WP QAPP.
  - The groundwater grab samples collected at 2nd Street Disposal Area and 5th Street Disposal Area will be analyzed for total compound list VOCs rather than the select VOCs identified in the Phase II WP QAPP. Details of the quality concerns and resolution of the uncertainty will be provided in the upcoming Phase II RI report.
- Monitoring Well Groundwater Sampling
  - The analytical laboratory identified in the Phase II WP QAPP will not be used, as the work is being conducted under a different contract. Empirical has been procured. Empirical is a DoD ELAP-certified laboratory (**Attachment 1**) capable of achieving the project quantitation limit goals identified in the Phase II WP QAPP.
  - Because of the presence of MEC/MPPEH at the 2nd Street Disposal Area, explosives residues (nitroaromatics/nitroamines plus pentaerythritol tetranitrate, nitroglycerin, and perchlorate) will be added to the analyte list for groundwater samples from that area. If explosives residues are detected in groundwater, additional sampling may be performed for delineation. Data will be evaluated with consideration of the type and magnitude of detections, and a decision will be made as to whether additional sampling for explosive residue analysis is warranted.
  - The groundwater samples collected from the monitoring wells installed at the 2nd Street Disposal Area and 5th Street Disposal Area will be analyzed for those VOCs detected in groundwater grab samples collected from the respective disposal area rather than the select VOCs identified in the Phase II WP QAPP, as well as 1,4-dioxane.
- Waste Characterization, Transportation, and Disposal
  - Although anomaly avoidance will be practiced at the 2nd Street Disposal Area, if MEC/MPPEH is suspected to be present, the suspect item will be recovered and disposed of in accordance with the ESS, as applicable. If surfaces of MPPEH cannot be inspected, inspection of MPPEH may require cutting of items with a chop saw and/or perforation of items with explosives to break open the cavities for inspection.
  - If MEC is encountered, it will be disposed of onsite via controlled detonation. Because the work is being conducted under G.S. 130A-310.3(e), it is assumed a waiver for permitting would be granted.

The updated schedule for the Phase II RI (**Phase II WP Figure 10, updated**) is provided and the remaining activities are pending completion of the RA. Although there have been project delays resulting from the discovery of MPPEH, efforts are ongoing to identify ways to expedite the schedule to meet the mandatory Remedial Investigation work phase completion deadline (April 2016) outlined in the REC Administrative Agreement. The project schedule will be periodically updated.

5 References

This section lists the documents consulted in the preparation of this report; not all references included herein are specifically cited in the text.

CH2M HILL. 2014. *Explosives Safety Submission Determination Request for Towers Road Disposal Areas 5th Street Disposal Area, Harvey Point Defense Training Activity, Hertford, North Carolina.* November.

CH2M HILL. 2015a. *Accident Prevention Plan, Towers Road Disposal Areas, Towers Road Disposal Areas, Harvey Point Defense Testing Activity, Hertford, North Carolina*. August.

CH2M HILL. 2015b. *Explosives Safety Submission for Towers Road Disposal Areas 2nd Street Disposal Area, Harvey Point Defense Training Activity, Hertford, North Carolina.* September.

CH2M HILL. 2015c. *Remedial Action Plan and Preconstruction Report Addendum.* October.

North Carolina Department of Environment and Natural Resources (NCDENR). 2013. *Registered Environmental Consultant Program Implementation Guidance*. December.

Figures

12-112-005

Legend

HPDTA Boundary

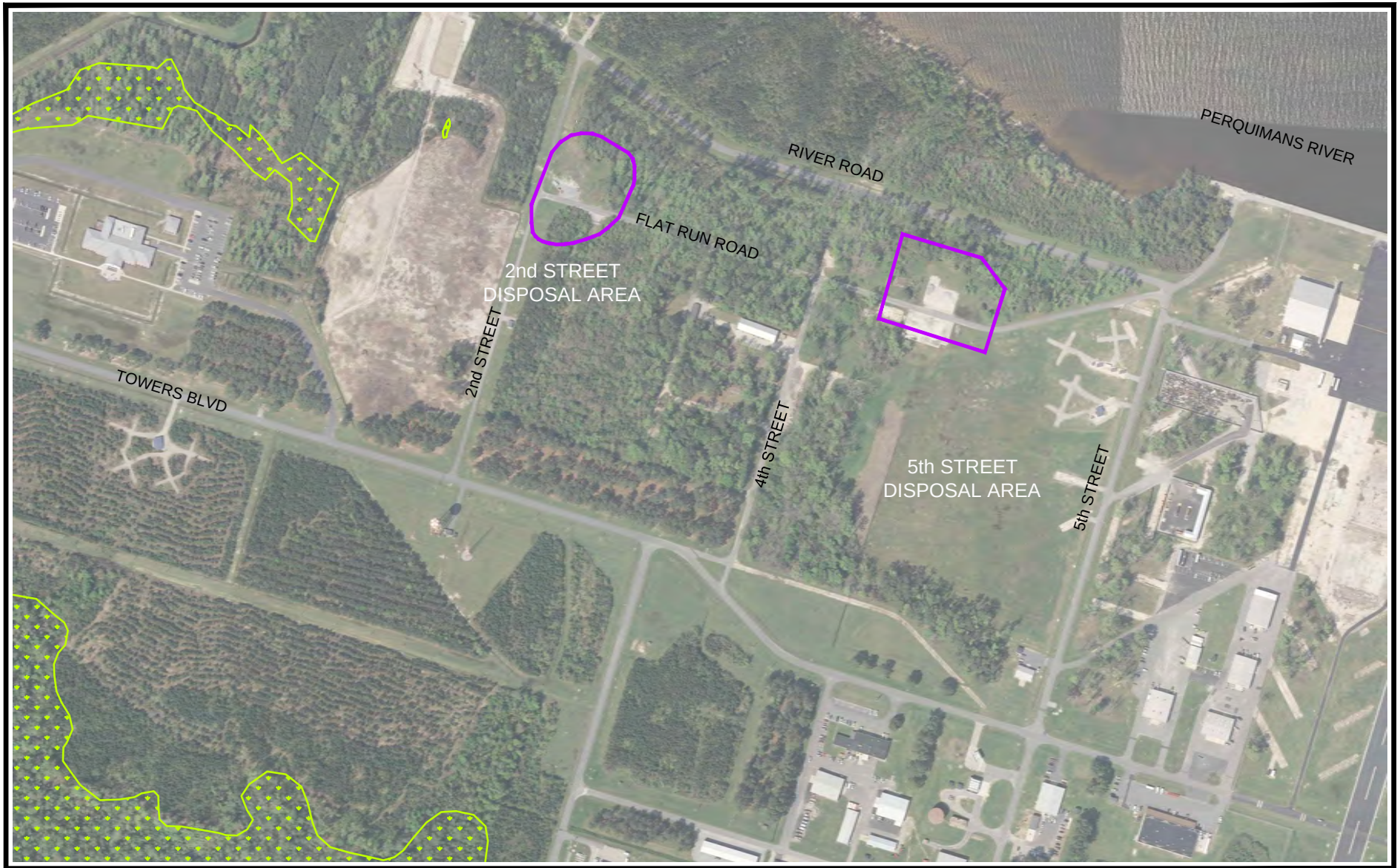
N
W E
S

0 6000 12000 Feet

Figure 1
HPDTA Location
Harvey Point Defense Testing Activity
Hertford, North Carolina

CUES MappingServices

12-112-003



Legend

Investigation Area

Wetland

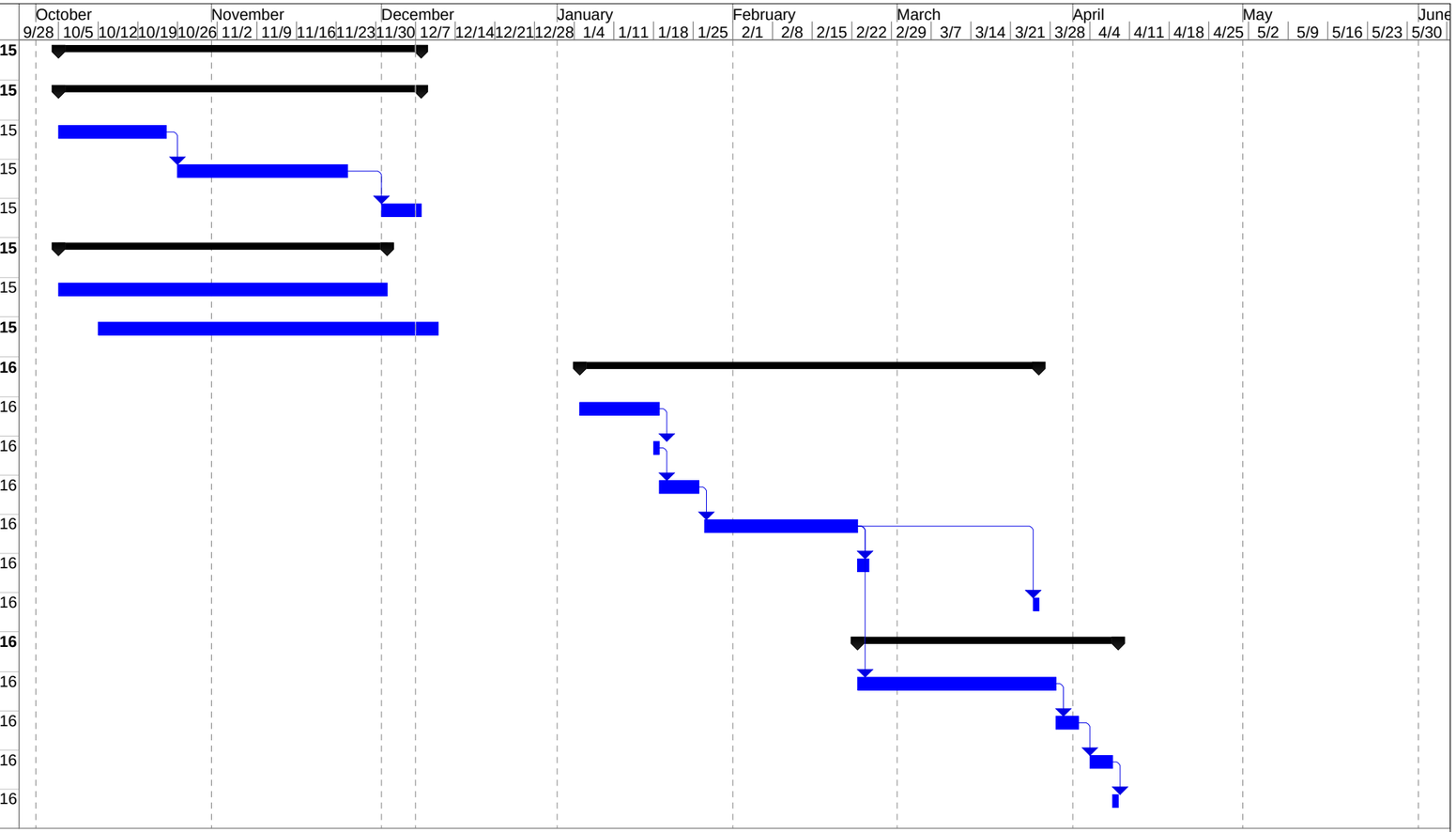
N
W E
S

0 250 500 Feet

Figure 2
Site Location Map
Harvey Point Defense Testing Activity
Hertford, North Carolina

CUES MappingServices

ID	Task Name	Duration	Start	Finish
1	**Phase II RI Planning**	**46 days**	**Mon 10/5/15**	**Mon 12/7/15**
2	**Work Plan**	**46 days**	**Mon 10/5/15**	**Mon 12/7/15**
3	Complete Work Plan Addendum (Excludes QAPP)	15 days	Mon 10/5/15	Fri 10/23/15
4	NAVFAC/HPDTA Review	22 days	Mon 10/26/15	Tue 11/24/15
5	Endorsement & Submittal to NCDEQ	5 days	Tue 12/1/15	Mon 12/7/15
6	**Contracting/Subcontracting**	**42 days**	**Mon 10/5/15**	**Tue 12/1/15**
7	Subcontractor Procurement	42 days	Mon 10/5/15	Tue 12/1/15
8	**Remedial Action (RA) [separate plan]**	**44 days**	**Mon 10/12/15**	**Thu 12/10/15**
9	**Post-RA Fieldwork**	**59 days**	**Tue 1/5/16**	**Fri 3/25/16**
10	Grab Groundwater Sampling & Analysis	10 days	Tue 1/5/16	Mon 1/18/16
11	Measurement of Groundwater Levels	1 day	Mon 1/18/16	Mon 1/18/16
12	Monitoring Well Installation	5 days	Tue 1/19/16	Mon 1/25/16
13	Groundwater Sampling & Analysis	19 days	Wed 1/27/16	Mon 2/22/16
14	Site Survey	2 days	Tue 2/23/16	Wed 2/24/16
15	IDW Disposal	1 day	Fri 3/25/16	Fri 3/25/16
16	**Phase II RI Report**	**34 days**	**Tue 2/23/16**	**Fri 4/8/16**
17	Draft Phase II RI Report	25 days	Tue 2/23/16	Mon 3/28/16
18	Navy/HPDTA Review	4 days	Tue 3/29/16	Fri 4/1/16
19	Final Phase II RI Report	4 days	Mon 4/4/16	Thu 4/7/16
20	Endorsement & Submittal to NCDEQ	1 day	Fri 4/8/16	Fri 4/8/16



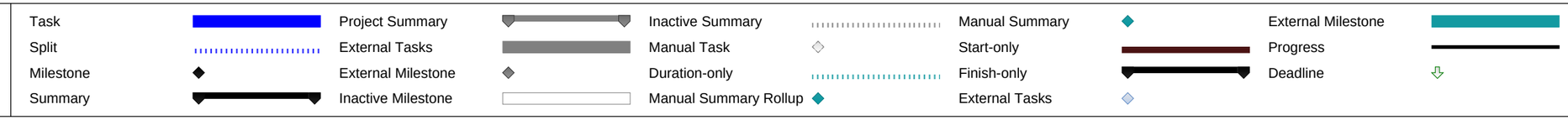


Figure 10
Project Schedule
Harvey Point Defense Testing Activity
Hertford, North Carolina

Attachment 1
Laboratory ELAP Accreditation

LABORATORY ACCREDITATION BUREAU®

Certificate of Accreditation

ISO/IEC 17025:2005 **Certificate Number L2226**

Empirical Laboratories, LLC

621 Mainstream Drive, Suite 270
Nashville TN 37228

has met the requirements set forth in L-A-B's policies and procedures, all requirements of ISO/IEC 17025:2005 "General Requirements for the competence of Testing and Calibration Laboratories" and the U.S. Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP).*

The accredited lab has demonstrated technical competence to a defined "Scope of Accreditation" and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Accreditation valid through: November 30, 2015

R. Douglas Leonard, Jr., President, COO
Laboratory Accreditation Bureau
Presented the 30th of January 2013

*See the laboratory's Scope of Accreditation for details of accredited parameters
**Laboratory Accreditation Bureau is found to be in compliance with ISO/IEC 17011:2004 and recognized by ILAC (International Laboratory Accreditation Cooperation) and NACLA (National Cooperation for Laboratory Accreditation).

LABORATORY ACCREDITATION BUREAU

Certificate # L2226

Scope of Accreditation
For
Empirical Laboratories, LLC

621 Mainstream Drive, Suite 270
Nashville, TN 37228
Marcia K. McGinnity
877-345-1113

In recognition of a successful assessment to ISO/IEC 17025:2005 and the requirements of the DoD Environmental Laboratory Accreditation Program (LABPR 403 DoD ELAP) as detailed in the DoD Quality Systems Manual for Environmental Laboratories (DoD QSM V5) based on the TNI Standard - Environmental Laboratory Sector, Volume 1 – Management and Technical Requirements for Laboratories Performing Environmental Analysis, Sept 2009 (EL-V1-2009); accreditation is granted to **Empirical Laboratories, LLC** to perform the following tests:

Accreditation granted through: **November 30, 2015**

Testing - Environmental

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C; EPA 624	1,1,1,2-Tetrachloroethane
GC/MS	EPA 8260B/C; EPA 624	1,1,1-Trichloroethane (1,1,1-TCA)
GC/MS	EPA 8260B/C; EPA 624	1,1,2,2-Tetrachloroethane
GC/MS	EPA 8260B/C; EPA 624	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113; Freon 113)
GC/MS	EPA 8260B/C; EPA 624	1,1,2-Trichloroethane
GC/MS	EPA 8260B/C; EPA 624	1,1-Dichloroethane (1,1-DCA)
GC/MS	EPA 8260B/C; EPA 624	1,1-Dichloroethene (1,1-DCE)
GC/MS	EPA 8260B/C; EPA 624	1,1-Dichloropropene
GC/MS	EPA 8260B/C; EPA 624	1,2,3-Trichlorobenzene
GC/MS	EPA 8260B/C; EPA 624	1,2,3-Trichloropropane
GC/MS	EPA 8260B/C; EPA 624	1,2,4-Trichlorobenzene
GC/MS	EPA 8260B/C; EPA 624	1,2,4-Trimethylbenzene
GC/MS	EPA 8260B/C; EPA 624	1,2-Dibromo-3-chloropropane (DBCP)
GC/MS	EPA 8260B/C; EPA 624	1,2-Dibromoethane (EDB)
GC/MS	EPA 8260B/C; EPA 624	1,2-Dichlorobenzene

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C; EPA 624	1,2-Dichloroethane (EDC)
GC/MS	EPA 8260B/C; EPA 624	1,2-Dichloropropane
GC/MS	EPA 8260B/C; EPA 624	1,3,5- Trichlorobenzene
GC/MS	EPA 8260B/C; EPA 624	1,3,5-Trimethylbenzene
GC/MS	EPA 8260B/C; EPA 624	1,3-Dichlorobenzene
GC/MS	EPA 8260B/C; EPA 624	1,3-Dichloropropane
GC/MS	EPA 8260B/C; EPA 624	1,4-Dichlorobenzene
GC/MS	EPA 8260B/C; EPA 624	1,4-Dioxane
GC/MS	EPA 8260B/C; EPA 624	1-Chlorohexane
GC/MS	EPA 8260B/C; EPA 624	2,2-Dichloropropane
GC/MS	EPA 8260B/C; EPA 624	2-Butanone (Methyl ethyl ketone; MEK)
GC/MS	EPA 8260B/C; EPA 624	2-Chloroethyl vinyl ether
GC/MS	EPA 8260B/C; EPA 624	2-Chlorotoluene
GC/MS	EPA 8260B/C; EPA 624	2-Hexanone (Methyl butyl ketone; MBK)
GC/MS	EPA 8260B/C; EPA 624	4-Chlorotoluene
GC/MS	EPA 8260B/C; EPA 624	4-Methyl-2-pentanone (Methyl isobutyl ketone; MBK)
GC/MS	EPA 8260B/C; EPA 624	Acetone
GC/MS	EPA 8260B/C; EPA 624	Acetonitrile
GC/MS	EPA 8260B/C; EPA 624	Acrolein
GC/MS	EPA 8260B/C; EPA 624	Acrylonitrile
GC/MS	EPA 8260B/C; EPA 624	Allyl chloride
GC/MS	EPA 8260B/C; EPA 624	Benzene
GC/MS	EPA 8260B/C; EPA 624	Bromobenzene
GC/MS	EPA 8260B/C; EPA 624	Bromochloromethane
GC/MS	EPA 8260B/C; EPA 624	Bromodichloromethane
GC/MS	EPA 8260B/C; EPA 624	Bromoform
GC/MS	EPA 8260B/C; EPA 624	Bromomethane
GC/MS	EPA 8260B/C; EPA 624	Carbon Disulfide
GC/MS	EPA 8260B/C; EPA 624	Carbon Tetrachloride
GC/MS	EPA 8260B/C; EPA 624	Chlorobenzene

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C; EPA 624	Chloroethane
GC/MS	EPA 8260B/C; EPA 624	Chloroform
GC/MS	EPA 8260B/C; EPA 624	Chloromethane
GC/MS	EPA 8260B/C; EPA 624	Chloroprene
GC/MS	EPA 8260B/C; EPA 624	cis-1,2-Dichloroethene (cis-1,2-DCE)
GC/MS	EPA 8260B/C; EPA 624	cis-1,3-Dichloropropene
GC/MS	EPA 8260B/C; EPA 624	cis-1,4-Dichloro-2-butene
GC/MS	EPA 8260B/C; EPA 624	Cyclohexane
GC/MS	EPA 8260B/C; EPA 624	Dibromochloromethane
GC/MS	EPA 8260B/C; EPA 624	Dibromomethane
GC/MS	EPA 8260B/C; EPA 624	Dichlorodifluoromethane (CFC-12)
GC/MS	EPA 8260B/C; EPA 624	Diethyl ether
GC/MS	EPA 8260B/C; EPA 624	Di-isopropyl ether
GC/MS	EPA 8260B/C; EPA 624	Ethyl tert-butyl ether (ETBE)
GC/MS	EPA 8260B/C; EPA 624	Ethyl methacrylate
GC/MS	EPA 8260B/C; EPA 624	Ethylbenzene
GC/MS	EPA 8260B/C; EPA 624	Hexachlorobutadiene
GC/MS	EPA 8260B/C; EPA 624	Hexane
GC/MS	EPA 8260B/C; EPA 624	Iodomethane
GC/MS	EPA 8260B/C; EPA 624	Isobutyl alcohol
GC/MS	EPA 8260B/C; EPA 624	Isopropylbenzene (Cumene)
GC/MS	EPA 8260B/C; EPA 624	m,p-Xylenes
GC/MS	EPA 8260B/C; EPA 624	Methacrylonitrile
GC/MS	EPA 8260B/C; EPA 624	Methyl Acetate
GC/MS	EPA 8260B/C; EPA 624	Methyl methacrylate
GC/MS	EPA 8260B/C; EPA 624	Methyl tert-Butyl Ether (MTBE)
GC/MS	EPA 8260B/C; EPA 624	Methylcyclohexane
GC/MS	EPA 8260B/C; EPA 624	Methylene Chloride, or Dichloromethane
GC/MS	EPA 8260B/C; EPA 624	Naphthalene
GC/MS	EPA 8260B/C; EPA 624	n-Butylbenzene

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C; EPA 624	n-Propylbenzene
GC/MS	EPA 8260B/C; EPA 624	o-Xylene
GC/MS	EPA 8260B/C; EPA 624	p-Isopropyltoluene
GC/MS	EPA 8260B/C; EPA 624	Propionitrile
GC/MS	EPA 8260B/C; EPA 624	sec-Butylbenzene
GC/MS	EPA 8260B/C; EPA 624	Styrene
GC/MS	EPA 8260B/C; EPA 624	tert-Amyl alcohol
GC/MS	EPA 8260B/C; EPA 624	tert-Butyl alcohol
GC/MS	EPA 8260B/C; EPA 624	tert-Amyl methyl ether
GC/MS	EPA 8260B/C; EPA 624	tert-Butylbenzene
GC/MS	EPA 8260B/C; EPA 624	Tetrachloroethene (PCE; PERC)
GC/MS	EPA 8260B/C; EPA 624	Tetrahydrofuran
GC/MS	EPA 8260B/C; EPA 624	Toluene
GC/MS	EPA 8260B/C; EPA 624	trans-1,2-Dichloroethene (trans-1,2-DCE)
GC/MS	EPA 8260B/C; EPA 624	trans-1,3-Dichloropropene
GC/MS	EPA 8260B/C; EPA 624	trans-1,4-Dichloro-2-butene
GC/MS	EPA 8260B/C; EPA 624	Trichloroethene (TCE)
GC/MS	EPA 8260B/C; EPA 624	Trichlorofluoromethane (CFC-11)
GC/MS	EPA 8260B/C; EPA 624	Vinyl acetate
GC/MS	EPA 8260B/C; EPA 624	Vinyl Chloride (VC)
GC/MS	EPA 8260B/C; EPA 624	Xylenes (Total)
GC/MS	EPA 8270C/D; EPA 625	1,1'-Biphenyl
GC/MS	EPA 8270C/D; EPA 625	1,2,4,5-Tetrachlorobenzene
GC/MS	EPA 8270C/D; EPA 625	1,2,4-Trichlorobenzene
GC/MS	EPA 8270C/D; EPA 625	1,2-Dichlorobenzene
GC/MS	EPA 8270C/D; EPA 625	1,2-Diphenylhydrazine
GC/MS	EPA 8270C/D; EPA 625	1,3-Dichlorobenzene
GC/MS	EPA 8270C/D; EPA 625	1,4-Dichlorobenzene
GC/MS	EPA 8270C/D; EPA 625	1,4-Dioxane
GC/MS	EPA 8270C/D; EPA 625	1-Methylnaphthalene

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/MS	EPA 8270C/D; EPA 625	2,3,4,6-Tetrachlorophenol
GC/MS	EPA 8270C/D; EPA 625	2,4,5-Trichlorophenol
GC/MS	EPA 8270C/D; EPA 625	2,4,6-Trichlorophenol (TCP)
GC/MS	EPA 8270C/D; EPA 625	2,4-Dichlorophenol (DCP)
GC/MS	EPA 8270C/D; EPA 625	2,4-Dimethylphenol
GC/MS	EPA 8270C/D; EPA 625	2,4-Dinitrophenol
GC/MS	EPA 8270C/D; EPA 625	2,4-Dinitrotoluene (DNT)
GC/MS	EPA 8270C/D; EPA 625	2,6-Dichlorophenol
GC/MS	EPA 8270C/D; EPA 625	2,6-Dinitrotoluene
GC/MS	EPA 8270C/D; EPA 625	2-Chloronaphthalene
GC/MS	EPA 8270C/D; EPA 625	2-Chlorophenol
GC/MS	EPA 8270C/D; EPA 625	2-Methylnaphthalene
GC/MS	EPA 8270C/D; EPA 625	2-Methylphenol (o-Cresol)
GC/MS	EPA 8270C/D; EPA 625	2-Nitroaniline
GC/MS	EPA 8270C/D; EPA 625	2-Nitrophenol (ONP)
GC/MS	EPA 8270C/D; EPA 625	3,3'-Dichlorobenzidine (DCB)
GC/MS	EPA 8270C/D; EPA 625	3-Methylphenol/4-Methylphenol
GC/MS	EPA 8270C/D; EPA 625	3-Nitroaniline
GC/MS	EPA 8270C/D; EPA 625	4,6-Dinitro-2-methylphenol (DNOC)
GC/MS	EPA 8270C/D; EPA 625	4-Bromophenyl phenyl ether
GC/MS	EPA 8270C/D; EPA 625	4-Chloro-3-methylphenol
GC/MS	EPA 8270C/D; EPA 625	4-Chloroaniline
GC/MS	EPA 8270C/D; EPA 625	4-Chlorophenyl phenyl ether
GC/MS	EPA 8270C/D; EPA 625	4-Methylphenol (p-Cresol)
GC/MS	EPA 8270C/D; EPA 625	4-Nitroaniline (PNA)
GC/MS	EPA 8270C/D; EPA 625	4-Nitrophenol (PNP)
GC/MS	EPA 8270C/D; EPA 625	Acenaphthene
GC/MS	EPA 8270C/D; EPA 625	Acenaphthylene
GC/MS	EPA 8270C/D; EPA 625	Acetophenone
GC/MS	EPA 8270C/D; EPA 625	Aniline

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/MS	EPA 8270C/D; EPA 625	Anthracene
GC/MS	EPA 8270C/D; EPA 625	Atrazine
GC/MS	EPA 8270C/D; EPA 625	Benzaldehyde
GC/MS	EPA 8270C/D; EPA 625	Benzidine
GC/MS	EPA 8270C/D; EPA 625	Benzo(a)anthracene
GC/MS	EPA 8270C/D; EPA 625	Benzo(a)pyrene
GC/MS	EPA 8270C/D; EPA 625	Benzo(b)fluoranthene
GC/MS	EPA 8270C/D; EPA 625	Benzo(g,h,i)perylene
GC/MS	EPA 8270C/D; EPA 625	Benzo(k)fluoranthene
GC/MS	EPA 8270C/D; EPA 625	Benzoic Acid
GC/MS	EPA 8270C/D; EPA 625	Benzyl Alcohol
GC/MS	EPA 8270C/D; EPA 625	bis(2-Chloroethoxy)methane
GC/MS	EPA 8270C/D; EPA 625	bis(2-Chloroethyl)ether (BCEE)
GC/MS	EPA 8270C/D; EPA 625	bis(2-chloroisopropyl)ether, or 2,2'-oxybis (1-Chloropropane)
GC/MS	EPA 8270C/D; EPA 625	bis(2-Ethylhexyl)phthalate (BEHP)
GC/MS	EPA 8270C/D; EPA 625	Butyl benzyl phthalate (BBP)
GC/MS	EPA 8270C/D; EPA 625	Caprolactam
GC/MS	EPA 8270C/D; EPA 625	Carbazole
GC/MS	EPA 8270C/D; EPA 625	Chrysene
GC/MS	EPA 8270C/D; EPA 625	Dibenz(a,h)anthracene
GC/MS	EPA 8270C/D; EPA 625	Dibenzofuran (DBF)
GC/MS	EPA 8270C/D; EPA 625	Diethyl phthalate (DEP)
GC/MS	EPA 8270C/D; EPA 625	Dimethyl phthalate (DMP)
GC/MS	EPA 8270C/D; EPA 625	Di-n-butyl phthalate (DBP)
GC/MS	EPA 8270C/D; EPA 625	Di-n-octyl phthalate (DNOP)
GC/MS	EPA 8270C/D; EPA 625	Fluoranthene
GC/MS	EPA 8270C/D; EPA 625	Fluorene
GC/MS	EPA 8270C/D; EPA 625	Hexachlorobenzene (HCB)
GC/MS	EPA 8270C/D; EPA 625	Hexachlorobutadiene (HCBD)
GC/MS	EPA 8270C/D; EPA 625	Hexachlorocyclopentadiene (HCCPD)

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/MS	EPA 8270C/D; EPA 625	Hexachloroethane (HCE)
GC/MS	EPA 8270C/D; EPA 625	Indeno(1,2,3-cd)pyrene
GC/MS	EPA 8270C/D; EPA 625	Isophorone
GC/MS	EPA 8270C/D; EPA 625	Naphthalene
GC/MS	EPA 8270C/D; EPA 625	Nitrobenzene
GC/MS	EPA 8270C/D; EPA 625	N-Nitrosodimethylamine
GC/MS	EPA 8270C/D; EPA 625	N-Nitroso-di-n-propylamine (NDPA)
GC/MS	EPA 8270C/D; EPA 625	N-nitrosodiphenylamine (NDPHA)
GC/MS	EPA 8270C/D; EPA 625	Pentachlorophenol
GC/MS	EPA 8270C/D; EPA 625	Phenanthrene
GC/MS	EPA 8270C/D; EPA 625	Phenol
GC/MS	EPA 8270C/D; EPA 625	Pyrene
GC/MS	EPA 8270C/D; EPA 625	Pyridine
GC/ECD	EPA 8081A/B	4,4’-DDD
GC/ECD	EPA 8081A/B	4,4’-DDE
GC/ECD	EPA 8081A/B	4,4’-DDT
GC/ECD	EPA 8081A/B	Aldrin
GC/ECD	EPA 8081A/B	alpha-BHC (alpha-HCH)
GC/ECD	EPA 8081A/B	alpha-Chlordane
GC/ECD	EPA 8081A/B	beta-BHC (beta-HCH)
GC/ECD	EPA 8081A/B	delta-BHC (delta-HCH)
GC/ECD	EPA 8081A/B	Dieldrin
GC/ECD	EPA 8081A/B	Endosulfan I
GC/ECD	EPA 8081A/B	Endosulfan II
GC/ECD	EPA 8081A/B	Endosulfan sulfate
GC/ECD	EPA 8081A/B	Endrin
GC/ECD	EPA 8081A/B	Endrin aldehyde
GC/ECD	EPA 8081A/B	Endrin ketone
GC/ECD	EPA 8081A/B	gamma-BHC (Lindane; gamma-HCH)
GC/ECD	EPA 8081A/B	gamma-Chlordane

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/ECD	EPA 8081A/B	Heptachlor
GC/ECD	EPA 8081A/B	Heptachlor epoxide
GC/ECD	EPA 8081A/B	Methoxychlor
GC/ECD	EPA 8081A/B	Chlordane (n.o.s.)
GC/ECD	EPA 8081A/B	Toxaphene
GC/ECD	EPA 8082A	Aroclor-1016
GC/ECD	EPA 8082A	Aroclor-1221
GC/ECD	EPA 8082A	Aroclor-1232
GC/ECD	EPA 8082A	Aroclor-1242
GC/ECD	EPA 8082A	Aroclor-1248
GC/ECD	EPA 8082A	Aroclor-1254
GC/ECD	EPA 8082A	Aroclor-1260
GC/ECD	EPA 8082A	Aroclor-1262
GC/ECD	EPA 8082A	Aroclor-1268
GC/ECD	EPA 8151A	2,4,5-T
GC/ECD	EPA 8151A	2,4,5-TP (Silvex)
GC/ECD	EPA 8151A	2,4-D
GC/ECD	EPA 8151A	2,4-DB
GC/ECD	EPA 8151A	Dalapon
GC/ECD	EPA 8151A	Dicamba
GC/ECD	EPA 8151A	Dichlorprop
GC/ECD	EPA 8151A	Dinoseb
GC/ECD	EPA 8151A	MCPA
GC/ECD	EPA 8151A	MCPP (Mecoprop)
HPLC/UV	EPA 8330A/B	1,3,5-Trinitrobenzene
HPLC/UV	EPA 8330A/B	1,3-Dinitrobenzene
HPLC/UV	EPA 8330A/B	2,4,6-Trinitrophenylmethylnitramine (Tetryl)
HPLC/UV	EPA 8330A/B	2,4,6-Trinitrotoluene (TNT)
HPLC/UV	EPA 8330A/B	2,4-Dinitrotoluene (DNT)
HPLC/UV	EPA 8330A/B	2,6-Dinitrotoluene

Non-Potable Water		
Technology	**Method**	**Analyte**
HPLC/UV	EPA 8330A/B	2-Amino-4,6-dinitrotoluene
HPLC/UV	EPA 8330A/B	2-Nitrotoluene (ONT)
HPLC/UV	EPA 8330A/B	3,5-Dinitroaniline
HPLC/UV	EPA 8330A/B	3-Nitrotoluene
HPLC/UV	EPA 8330A/B	4-Amino-2,6-dinitrotoluene
HPLC/UV	EPA 8330A/B	4-Nitrotoluene (PNT)
HPLC/UV	EPA 8330A/B	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
HPLC/UV	EPA 8330A/B	Nitrobenzene
HPLC/UV	EPA 8330A/B	Nitroglycerin
HPLC/UV	EPA 8330A/B	Nitroguanidine
HPLC/UV	EPA 8330A/B	Octahydro-1,3,5,6-tetranitro-1,3,5,7-tetrazocine (HMX)
HPLC/UV	EPA 8330A/B	3,5-Dinitroaniline
HPLC/UV	EPA 8330A/B	PETN
GC/FID	FL PRO	Petroleum Range Organics
GC/FID	EPA 8015B/C	TPH DRO
GC/FID	EPA 8015B/C	TPH ORO
GC/FID	EPA 8015B/C	TPH GRO
GC/FID	RSK-175	Methane
GC/FID	RSK-175	Ethane
GC/FID	RSK-175	Ethene
GC/ECD	EPA 8011	1,2-Dibromoethane (EDB)
GC/ECD	EPA 8011	1,2-Dibromo-3-chloropropane (DBCP)
HPLC/MS	EPA 6850	Perchlorate
ICP	EPA 6010B/C; EPA 200.7	Aluminum
ICP	EPA 6010B/C; EPA 200.7	Antimony
ICP	EPA 6010B/C; EPA 200.7	Arsenic
ICP	EPA 6010B/C; EPA 200.7	Barium
ICP	EPA 6010B/C; EPA 200.7	Beryllium

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP	EPA 6010B/C; EPA 200.7	Boron
ICP	EPA 6010B/C; EPA 200.7	Cadmium
ICP	EPA 6010B/C; EPA 200.7	Calcium
ICP	EPA 6010B/C; EPA 200.7	Chromium, total
ICP	EPA 6010B/C; EPA 200.7	Cobalt
ICP	EPA 6010B/C; EPA 200.7	Copper
ICP	EPA 6010B/C; EPA 200.7	Iron
ICP	EPA 6010B/C; EPA 200.7	Lead
ICP	EPA 6010B/C; EPA 200.7	Magnesium
ICP	EPA 6010B/C; EPA 200.7	Manganese
CVAA	EPA 7470A; EPA 245.1	Mercury
ICP	EPA 6010B/C; EPA 200.7	Molybdenum
ICP	EPA 6010B/C; EPA 200.7	Nickel
ICP	EPA 6010B/C; EPA 200.7	Potassium
ICP	EPA 6010B/C; EPA 200.7	Selenium
ICP	EPA 6010B/C; EPA 200.7	Silver
ICP	EPA 6010B/C; EPA 200.7	Sodium
ICP	EPA 6010B/C; EPA 200.7	Strontium
ICP	EPA 6010B/C; EPA 200.7	Thallium
ICP	EPA 6010B/C; EPA 200.7	Tin
ICP	EPA 6010B/C; EPA 200.7	Titanium

Non-Potable Water		
Technology	**Method**	**Analyte**
ICP	EPA 6010B/C; EPA 200.7	Vanadium
ICP	EPA 6010B/C; EPA 200.7	Zinc
ICP	SM 2340 B-2011; EPA 200.7; EPA 6010C	Hardness
IC	EPA 300.0	Bromide
IC	EPA 300.0	Chloride
IC	EPA 300.0	Fluoride
IC	EPA 300.0	Nitrate
IC	EPA 300.0	Nitrite
IC	EPA 300.0	Sulfate
IC	EPA 9056A	Bromide
IC	EPA 9056A	Chloride
IC	EPA 9056A	Fluoride
IC	EPA 9056A	Nitrate
IC	EPA 9056A	Nitrite
IC	EPA 9056A	Sulfate
Titration	SM 2320 B-2011	Alkalinity
Colorimetric	SM 4500 NH3 G-2011	Ammonia
Probe	SM 5210 B-2011	BOD
Probe	SM 5210 B-2011	CBOD
Colorimetric	EPA 410.4	COD
Colorimetric	EPA 9012A/B SM 4500 CN G-2011	Cyanide
UV/Vis	EPA 7196A SM 3500 Cr B-2011	Hexavalent Chromium
Physical	EPA 1010A	Ignitability / Flashpoint
Colorimetric	EPA 353.2	Nitrate/Nitrite
Colorimetric	EPA 353.2 MOD	Nitrocellulose
Colorimetric	SM 4500 NO2 B-2011	Nitrite as N
Gravimetric	EPA 1664A	Oil and Grease
Physical	EPA 9095B	Paint Filter

Non-Potable Water		
Technology	**Method**	**Analyte**
Probe	EPA 9040B/C SM 4500 H+ B-2011	pH(Corrosivity)
Titration	Chap.7, Sect. 7.3.4 Mod.	Reactive Sulfide
Titration	SM 4500 S2 F-2011	Sulfide
UV/Vis	SM 4500 P B5-2011	Total Phosphorus (as P)
UV/Vis	SM 4500 P E-2011	Ortho-Phosphate (as P)
TOC	EPA 9060A; SM 5310 C-2011	Total Organic Carbon
Gravimetric	SM 2540 C-2011	TDS
Gravimetric	SM 2540 D-2011	TSS
Preparation	**Method**	**Type**
Preparation	EPA 1311	TCLP
Preparation	EPA 3005A	Metals digestion
Preparation	EPA 3010A	Metals digestion
Preparation	EPA 3510C	Organics Liquid Extraction
Preparation	EPA 5030A/B	Purge and Trap Water

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C	1,1,1-Trichloroethane (1,1,1-TCA)
GC/MS	EPA 8260B/C	1,1,1,2-Tetrachloroethane
GC/MS	EPA 8260B/C	1,1,2,2-Tetrachloroethane
GC/MS	EPA 8260B/C	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113; Freon 113)
GC/MS	EPA 8260B/C	1,1,2-Trichloroethane
GC/MS	EPA 8260B/C	1,1-Dichloroethane (1,1-DCA)
GC/MS	EPA 8260B/C	1,1-Dichloroethene (1,1-DCE)
GC/MS	EPA 8260B/C	1,1-Dichloropropene
GC/MS	EPA 8260B/C	1,2,3-Trichlorobenzene
GC/MS	EPA 8260B/C	1,2,3-Trichloropropane
GC/MS	EPA 8260B/C	1,2,4-Trichlorobenzene

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C	1,2,4-Trimethylbenzene
GC/MS	EPA 8260B/C	1,2-Dibromo-3-chloropropane (DBCP)
GC/MS	EPA 8260B/C	1,2-Dibromoethane (EDB)
GC/MS	EPA 8260B/C	1,2-Dichlorobenzene
GC/MS	EPA 8260B/C	1,2-Dichloroethane (EDC)
GC/MS	EPA 8260B/C	1,2-Dichloropropane
GC/MS	EPA 8260B/C	1,3,5-Trichlorobenzene
GC/MS	EPA 8260B/C	1,3,5-Trimethylbenzene
GC/MS	EPA 8260B/C	1,3-Dichlorobenzene
GC/MS	EPA 8260B/C	1,3-Dichloropropane
GC/MS	EPA 8260B/C	1,4-Dichlorobenzene
GC/MS	EPA 8260B/C	1,4-Dioxane
GC/MS	EPA 8260B/C	1-Chlorohexane
GC/MS	EPA 8260B/C	2,2-Dichloropropane
GC/MS	EPA 8260B/C	2-Butanone (Methyl ethyl ketone; MEK)
GC/MS	EPA 8260B/C	2-Chloroethyl vinyl ether
GC/MS	EPA 8260B/C	2-Chlorotoluene
GC/MS	EPA 8260B/C	2-Hexanone (Methyl butyl ketone; MBK)
GC/MS	EPA 8260B/C	4-Chlorotoluene
GC/MS	EPA 8260B/C	4-Methyl-2-pentanone (Methyl isobutyl ketone; MIBK)
GC/MS	EPA 8260B/C	Acetone
GC/MS	EPA 8260B/C	Acetonitrile
GC/MS	EPA 8260B/C	Acrolein
GC/MS	EPA 8260B/C	Acrylonitrile
GC/MS	EPA 8260B/C	Allyl chloride
GC/MS	EPA 8260B/C	Benzene
GC/MS	EPA 8260B/C	Bromobenzene
GC/MS	EPA 8260B/C	Bromochloromethane
GC/MS	EPA 8260B/C	Bromodichloromethane
GC/MS	EPA 8260B/C	Bromoform

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C	Bromomethane
GC/MS	EPA 8260B/C	Carbon Disulfide
GC/MS	EPA 8260B/C	Carbon Tetrachloride
GC/MS	EPA 8260B/C	Chlorobenzene
GC/MS	EPA 8260B/C	Chloroethane
GC/MS	EPA 8260B/C	Chloroform
GC/MS	EPA 8260B/C	Chloromethane
GC/MS	EPA 8260B/C	Chloroprene
GC/MS	EPA 8260B/C	cis-1,2-Dichloroethene (cis-1,2-DCE)
GC/MS	EPA 8260B/C	cis-1,3-Dichloropropene
GC/MS	EPA 8260B/C	cis-1,4-Dichloro-2-butene
GC/MS	EPA 8260B/C	Cyclohexane
GC/MS	EPA 8260B/C	Dibromochloromethane
GC/MS	EPA 8260B/C	Dibromomethane
GC/MS	EPA 8260B/C	Dichlorodifluoromethane (CFC-12)
GC/MS	EPA 8260B/C	Diethyl ether
GC/MS	EPA 8260B/C	Di-isopropyl ether
GC/MS	EPA 8260B/C	Ethyl methacrylate
GC/MS	EPA 8260B/C	Ethyl tert-butyl ether (ETBE)
GC/MS	EPA 8260B/C	Ethylbenzene
GC/MS	EPA 8260B/C	Hexachlorobutadiene
GC/MS	EPA 8260B/C	Hexane
GC/MS	EPA 8260B/C	Iodomethane
GC/MS	EPA 8260B/C	Isobutyl alcohol
GC/MS	EPA 8260B/C	Isopropylbenzene (Cumene)
GC/MS	EPA 8260B/C	m,p-Xylenes
GC/MS	EPA 8260B/C	Methacrylonitrile
GC/MS	EPA 8260B/C	Methyl Acetate
GC/MS	EPA 8260B/C	Methyl methacrylate
GC/MS	EPA 8260B/C	Methyl Tert-Butyl Ether (MTBE)

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/MS	EPA 8260B/C	Methylcyclohexane
GC/MS	EPA 8260B/C	Methylene Chloride, or Dichloromethane
GC/MS	EPA 8260B/C	Naphthalene
GC/MS	EPA 8260B/C	n-Butylbenzene
GC/MS	EPA 8260B/C	n-Propylbenzene
GC/MS	EPA 8260B/C	o-Xylene
GC/MS	EPA 8260B/C	p-Isopropyltoluene
GC/MS	EPA 8260B/C	Propionitrile
GC/MS	EPA 8260B/C	sec-Butylbenzene
GC/MS	EPA 8260B/C	Styrene
GC/MS	EPA 8260B/C	tert-Amyl alcohol
GC/MS	EPA 8260B/C	Tert-Amyl ethyl ether
GC/MS	EPA 8260B/C	tert-Amyl methyl ether
GC/MS	EPA 8260B/C	tert-Butyl alcohol
GC/MS	EPA 8260B/C	tert-Butylbenzene
GC/MS	EPA 8260B/C	Tetrachloroethene (PCE; PERC)
GC/MS	EPA 8260B/C	Tetrahydrofuran
GC/MS	EPA 8260B/C	Toluene
GC/MS	EPA 8260B/C	trans-1,2-Dichloroethene (tans-1,2-DCE)
GC/MS	EPA 8260B/C	trans-1,3-Dichloropropene
GC/MS	EPA 8260B/C	trans-1,4-Dichloro-2-butene
GC/MS	EPA 8260B/C	Trichloroethene (TCE)
GC/MS	EPA 8260B/C	Trichlorofluoromethane (CFC-11)
GC/MS	EPA 8260B/C	Vinyl acetate
GC/MS	EPA 8260B/C	Vinyl Chloride (VC)
GC/MS	EPA 8260B/C	Xylenes (Total)
GC/MS	EPA 8270C/D	1,1’-Biphenyl
GC/MS	EPA 8270C/D	1,2,4,5-Tetrachlorobenzene
GC/MS	EPA 8270C/D	1,2,4-Trichlorobenzene
GC/MS	EPA 8270C/D	1,2-Dichlorobenzene

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/MS	EPA 8270C/D	1,2-Diphenylhydrazine
GC/MS	EPA 8270C/D	1,3-Dichlorobenzene
GC/MS	EPA 8270C/D	1,4-Dichlorobenzene
GC/MS	EPA 8270C/D	1,4-Dioxane
GC/MS	EPA 8270C/D	1-Methylnaphthalene
GC/MS	EPA 8270C/D	2,3,4,6-Tetrachlorophenol
GC/MS	EPA 8270C/D	2,4,5-Trichlorophenol
GC/MS	EPA 8270C/D	2,4,6-Trichlorophenol (TCP)
GC/MS	EPA 8270C/D	2,4-Dichlorophenol (DCP)
GC/MS	EPA 8270C/D	2,4-Dimethylphenol
GC/MS	EPA 8270C/D	2,4-Dinitrophenol
GC/MS	EPA 8270C/D	2,4-Dinitrotoluene (DNT)
GC/MS	EPA 8270C/D	2,6-Dichlorophenol
GC/MS	EPA 8270C/D	2,6-Dinitrotoluene
GC/MS	EPA 8270C/D	2-Chloronaphthalene
GC/MS	EPA 8270C/D	2-Chlorophenol
GC/MS	EPA 8270C/D	2-Methylnaphthalene
GC/MS	EPA 8270C/D	2-Methylphenol (o-Cresol)
GC/MS	EPA 8270C/D	2-Nitroaniline
GC/MS	EPA 8270C/D	2-Nitrophenol (ONP)
GC/MS	EPA 8270C/D	3,3’-Dichlorobenzidine (DCB)
GC/MS	EPA 8270C/D	3-Methylphenol/4-Methylphenol
GC/MS	EPA 8270C/D	3-Nitroaniline
GC/MS	EPA 8270C/D	4,6-Dinitro-2-methylphenol (DNOC)
GC/MS	EPA 8270C/D	4-Bromophenyl phenyl ether
GC/MS	EPA 8270C/D	4-Chloro-3-methylphenol
GC/MS	EPA 8270C/D	4-Chloroaniline
GC/MS	EPA 8270C/D	4-Chlorophenyl phenyl ether
GC/MS	EPA 8270C/D	4-Methylphenol (p-Cresol)
GC/MS	EPA 8270C/D	4-Nitroaniline (PNA)

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/MS	EPA 8270C/D	4-Nitrophenol (PNP)
GC/MS	EPA 8270C/D	Acenaphthene
GC/MS	EPA 8270C/D	Acenaphthylene
GC/MS	EPA 8270C/D	Acetophenone
GC/MS	EPA 8270C/D	Aniline
GC/MS	EPA 8270C/D	Anthracene
GC/MS	EPA 8270C/D	Atrazine
GC/MS	EPA 8270C/D	Benzaldehyde
GC/MS	EPA 8270C/D	Benzidine
GC/MS	EPA 8270C/D	Benzo(a)anthracene
GC/MS	EPA 8270C/D	Benzo(a)pyrene
GC/MS	EPA 8270C/D	Benzo(b)fluoranthene
GC/MS	EPA 8270C/D	Benzo(g,h,i)perylene
GC/MS	EPA 8270C/D	Benzo(k)fluoranthene
GC/MS	EPA 8270C/D	Benzoic Acid
GC/MS	EPA 8270C/D	Benyl alcohol
GC/MS	EPA 8270C/D	bis(2-Chloroethoxy)methane
GC/MS	EPA 8270C/D	bis(2-Chloroethyl)ether (BCEE)
GC/MS	EPA 8270C/D	bis(2-chloroisopropyl)ether, or 2,2'-oxybis (1-Chloropropane)
GC/MS	EPA 8270C/D	bis(2-Ethylhexyl)phthalate (BEHP)
GC/MS	EPA 8270C/D	Butyl benzyl phthalate (BBP)
GC/MS	EPA 8270C/D	Caprolactam
GC/MS	EPA 8270C/D	Carbazole
GC/MS	EPA 8270C/D	Chrysene
GC/MS	EPA 8270C/D	Dibenz(a,h)anthracene
GC/MS	EPA 8270C/D	Dibenzofuran (DBF)
GC/MS	EPA 8270C/D	Diethyl phthalate (DEP)
GC/MS	EPA 8270C/D	Dimethyl phthalate (DMP)
GC/MS	EPA 8270C/D	Di-n-butyl phthalate (DBP)

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/MS	EPA 8270C/D	Di-n-octyl phthalate (DNOP)
GC/MS	EPA 8270C/D	Fluoranthene
GC/MS	EPA 8270C/D	Fluorene
GC/MS	EPA 8270C/D	Hexachlorobenzene (HCB)
GC/MS	EPA 8270C/D	Hexachlorobutadiene (HCBD)
GC/MS	EPA 8270C/D	Hexachlorocyclopentadiene (HCCPD)
GC/MS	EPA 8270C/D	Hexachloroethane (HCE)
GC/MS	EPA 8270C/D	Indeno(1,2,3-cd)pyrene
GC/MS	EPA 8270C/D	Isophorone
GC/MS	EPA 8270C/D	Naphthalene
GC/MS	EPA 8270C/D	Nitrobenzene
GC/MS	EPA 8270C/D	N-Nitrosodimethylamine
GC/MS	EPA 8270C/D	N-Nitroso-di-n-propylamine (NDPA)
GC/MS	EPA 8270C/D	N-nitrosodiphenylamine (NDPHA)
GC/MS	EPA 8270C/D	Pentachlorophenol
GC/MS	EPA 8270C/D	Phenanthrene
GC/MS	EPA 8270C/D	Phenol
GC/MS	EPA 8270C/D	Pyrene
GC/MS	EPA 8270C/D	Pyridine
GC/ECD	EPA 8081A/B	4,4’-DDD
GC/ECD	EPA 8081A/B	4,4’-DDE
GC/ECD	EPA 8081A/B	4,4’-DDT
GC/ECD	EPA 8081A/B	Aldrin
GC/ECD	EPA 8081A/B	alpha-BHC (alpha-HCH)
GC/ECD	EPA 8081A/B	alpha-Chlordane
GC/ECD	EPA 8081A/B	beta-BHC (beta-HCH)
GC/ECD	EPA 8081A/B	delta-BHC (delta-HCH)
GC/ECD	EPA 8081A/B	Chlordane (n.o.s.)
GC/ECD	EPA 8081A/B	Dieldrin
GC/ECD	EPA 8081A/B	Endosulfan I

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/ECD	EPA 8081A/B	Endosulfan II
GC/ECD	EPA 8081A/B	Endosulfan sulfate
GC/ECD	EPA 8081A/B	Endrin
GC/ECD	EPA 8081A/B	Endrin aldehyde
GC/ECD	EPA 8081A/B	Endrin ketone
GC/ECD	EPA 8081A/B	gamma-BHC (Lindane; gamma-HCH)
GC/ECD	EPA 8081A/B	gamma-Chlordane
GC/ECD	EPA 8081A/B	Heptachlor
GC/ECD	EPA 8081A/B	Heptachlor epoxide
GC/ECD	EPA 8081A/B	Methoxychlor
GC/ECD	EPA 8081A/B	Toxaphene
GC/ECD	EPA 8082A	Aroclor-1016
GC/ECD	EPA 8082A	Aroclor-1221
GC/ECD	EPA 8082A	Aroclor-1232
GC/ECD	EPA 8082A	Aroclor-1242
GC/ECD	EPA 8082A	Aroclor-1248
GC/ECD	EPA 8082A	Aroclor-1254
GC/ECD	EPA 8082A	Aroclor-1260
GC/ECD	EPA 8082A	Aroclor-1262
GC/ECD	EPA 8082A	Aroclor-1268
HPLC/UV	EPA 8330A	1,3,5-Trinitrobenzene
HPLC/UV	EPA 8330A	1,3-Dinitrobenzene
HPLC/UV	EPA 8330A	2,4,6-Trinitrophenylmethylnitramine (Tetryl)
HPLC/UV	EPA 8330A	2,4,6-Trinitrotoluene (TNT)
HPLC/UV	EPA 8330A	2,4-Dinitrotoluene (DNT)
HPLC/UV	EPA 8330A	2,6-Dinitrotoluene
HPLC/UV	EPA 8330A	2-Amino-4,6-dinitrotoluene
HPLC/UV	EPA 8330A	2-Nitrotoluene (ONT)
HPLC/UV	EPA 8330A	3-Nitrotoluene
HPLC/UV	EPA 8330A	3,5-Dinitroaniline

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
HPLC/UV	EPA 8330A	4-Amino-2,6-dinitrotoluene
HPLC/UV	EPA 8330A	4-Nitrotoluene (PNT)
HPLC/UV	EPA 8330A	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
HPLC/UV	EPA 8330A	Nitroglycerin
HPLC/UV	EPA 8330A	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
HPLC/UV	EPA 8330A	Nitrobenzene
HPLC/UV	EPA 8330A	Nitroguanidine
HPLC/UV	EPA 8330A	PETN
HPLC/UV	EPA 8330B	1,3,5-Trinitrobenzene
HPLC/UV	EPA 8330B	1,3-Dinitrobenzene
HPLC/UV	EPA 8330B	2,4,6-Trinitrophenylmethylnitramine (Tetryl)
HPLC/UV	EPA 8330B	2,4,6-Trinitrotoluene (TNT)
HPLC/UV	EPA 8330B	2,4-Dinitrotoluene (DNT)
HPLC/UV	EPA 8330B	2,6-Dinitrotoluene
HPLC/UV	EPA 8330B	2-Amino-4,6-dinitrotoluene
HPLC/UV	EPA 8330B	2-Nitrotoluene (ONT)
HPLC/UV	EPA 8330B	3-Nitrotoluene
HPLC/UV	EPA 8330B	3,5-Dinitroaniline
HPLC/UV	EPA 8330B	4-Amino-2,6-dinitrotoluene
HPLC/UV	EPA 8330B	4-Nitrotoluene (PNT)
HPLC/UV	EPA 8330B	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
HPLC/UV	EPA 8330B	Nitroglycerin
HPLC/UV	EPA 8330B	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
HPLC/UV	EPA 8330B	Nitrobenzene
HPLC/UV	EPA 8330B	Nitroguanidine
HPLC/UV	EPA 8330B	PETN
GC/FID	FL PRO	Petroleum Range Organics
GC/FID	EPA 8015B/C	TPH DRO
GC/FID	EPA 8015B/C	TPH ORO

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC/FID	EPA 8015B/C	TPH GRO
HPLC/MS	EPA 6850	Perchlorate
ICP	EPA 6010B/C	Aluminum
ICP	EPA 6010B/C	Antimony
ICP	EPA 6010B/C	Arsenic
ICP	EPA 6010B/C	Barium
ICP	EPA 6010B/C	Beryllium
ICP	EPA 6010B/C	Boron
ICP	EPA 6010B/C	Cadmium
ICP	EPA 6010B/C	Calcium
ICP	EPA 6010B/C	Chromium, total
ICP	EPA 6010B/C	Cobalt
ICP	EPA 6010B/C	Copper
ICP	EPA 6010B/C	Iron
ICP	EPA 6010B/C	Lead
ICP	EPA 6010B/C	Magnesium
ICP	EPA 6010B/C	Manganese
ICP	EPA 6010B/C	Molybdenum
ICP	EPA 6010B/C	Nickel
ICP	EPA 6010B/C	Potassium
ICP	EPA 6010B/C	Selenium
ICP	EPA 6010B/C	Silver
ICP	EPA 6010B/C	Sodium
ICP	EPA 6010B/C	Strontium
ICP	EPA 6010B/C	Tin
ICP	EPA 6010B/C	Titanium
ICP	EPA 6010B/C	Thallium
ICP	EPA 6010B/C	Vanadium
ICP	EPA 6010B/C	Zinc
CVAA	EPA 7471A/B	Mercury

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
IC	EPA 9056A	Bromide
IC	EPA 9056A	Chloride
IC	EPA 9056A	Fluoride
IC	EPA 9056A	Nitrate
IC	EPA 9056A	Nitrite
IC	EPA 9056A	Sulfate
Colorimetric	EPA 9012A/B	Cyanide
UV/Vis	EPA 7196A	Hexavalent Chromium
Physical	EPA 1010A	Ignitability/Flashpoint
Colorimetric	EPA 353.2 MOD	Nitrocellulose
Probe	EPA 9045C/D	pH (Corrosivity)
Titration	Chap.7, Sect. 7.3.4 Mod.	Reactive Sulfide
Titration	EPA 9034	Sulfide
TOC	Lloyd Kahn	Total Organic Carbon
Preparation	**Method**	**Type**
Preparation	EPA 1311	TCLP
Preparation	EPA 1312	SPLP
Preparation	NJ Modified 3060A	Hexavalent Chromium
Preparation	EPA 3050B	Metals Digestion
Preparation	EPA 3546	Organics Microwave Extraction
Preparation	EPA 3550B/C	Organics Sonication
Preparation	SM 2540 B-1997	Percent Solids (Percent Moisture)
Preparation	EPA 5035 /A	Purge and Trap Solid

Notes:

1) This laboratory offers commercial testing service.

Approved by: _____ Date: November 26, 2014

R. Douglas Leonard
Chief Technical Officer

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