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NAS BRUNSWICK  
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LETTER REGARDING SELECTION OF EMPIRICAL LABORATORY TO PERFORM THE  
ANALYTICAL SERVICES FOR THE SAMPLING EFFORTS UNDER CONTRACT TASK  
ORDER 0069 NAS BRUNSWICK ME  
4/24/2007  
TETRA TECH



**TETRA TECH NUS, INC.**

661 Andersen Drive • Pittsburgh, PA 15220  
Tel 412.921.7090 • Fax 412.921.4040 • www.tetrattech.com

PITT-04-7-045

April 24, 2007

Project No. 0645

BRAC PMO Northeast  
Attn: Lonnie Monaco  
4911 South Broad Street  
Philadelphia, PA 19112-1303

Subject: Laboratory Selection for NAS Brunswick, Maine

Dear Mr. Monaco:

Empirical Laboratory was selected to perform the analytical services for the sampling efforts at the NAS Brunswick Contract Task Order (CTO) 0069 under the Navy CLEAN IV Program. The laboratory is a participant in the Navy CLEAN Master Services Agreement (MSA) and is currently approved by the Navy for the requested analyses. All analyses employed for this project are EPA-approved methods.

The Navy has determined that Empirical is capable of compliance with the data quality objectives outlined in the work plan. Attached are (1) the table of analytical methods used, and (2) the Navy Approval letter showing NFESC acceptance of the laboratory to perform most of the requested methods for hazardous waste constituents where acceptance is appropriate.

Sincerely,

Kelly A. Carper  
CLEAN IV Quality Assurance Manager

KAC/mlg  
Attachments

cc: Ms. Linda Klink, TtNUS, Inc.  
Mr. Garth Glenn, TtNUS, Inc.  
Mr. John Trepanowski, TtNUS, Inc.  
Mr. Dan Waddill, NAVFAC Atlantic  
Ms. Bonnie Capito, NAVFAC Atlantic  
Project File – CTO 0069

**NUMBER OF SAMPLES/ANALYTICAL METHODS  
NAVAL AIR STATION (NAS) BRUNSWICK, MAINE  
CTO 069, MRP INVESTIGATION**

Matrix	Parameter	Method	# Samples <sup>(1)</sup>
Aqueous	Explosives	SW-846 8330 or 8330B	47
	Nitroglycerin	SW-846 8332	20
	Nitrocellulose	Lab SOP	20
	Perchlorate*	EPA 331 or SW-846 6850	24
	TAL Metals	SW-846 6010B or 6020	73
	PAHs	SW-846 8270C SIM	44
Solid	Explosives	SW-846 8330	34
	Nitroglycerin	SW-846 8332	34
	Nitrocellulose	Lab SOP	34
	TAL Metals	SW-846 6010B or 6020	120
	PAHs	SW-846 8270C SIM	84
	TCLP Organic and Inorganic	SW-845 1311/8260B, 8270C, 8081A, 8151A, 8330, 6010B, 7470	5

\* Perchlorate analysis is being subcontracted to CAS labs and their navy approval letter is also attached.



**DEPARTMENT OF THE NAVY**

NAVAL FACILITIES ENGINEERING SERVICE CENTER  
1100 23RD AVE  
PORT HUENEME CA 93043-4370

IN REPLY REFER TO:

NFESC 413  
February 20, 2007

Mr. Randy Ward  
QA Manager  
Empirical Laboratory, LLC  
227 French Landing Drive  
Nashville, TN 37228

Dear Mr. Ward,

This correspondence addresses the status of Empirical Laboratory, LLC of Nashville, Tennessee in the Navy Environmental Restoration (ER) Quality Assurance (QA) Program as administered by the Naval Facilities Engineering Service Center (NFESC).

Your laboratory is accepted to perform sample analysis for the methods listed in Table 1. The period of acceptance expires June 12, 2008. This acceptance does not guarantee the delivery of any analytical samples. Acceptance is facility specific and can not be transferred to an affiliated or subcontract laboratory.

The Navy's assessment included a review of the laboratory's QA manual, selected standard operating procedures (SOPs) and SOP master list, list of major analytical instrumentation, performance test (PT) results and onsite assessment documentation<sup>1</sup>.

The Navy reserves the right to conduct additional laboratory assessments or to suspend or revoke acceptance status for any or all of the listed parameters if deemed necessary.

Table 1

METHOD	PARAMETER	MATRIX
9056/300 Series	Anions: Chloride, Fluoride, Sulfate, Nitrate, Nitrite, and Ortho-phosphate	Water
9010B/9014	Total Cyanide	Water/Solid
8051A	Organochlorine Herbicides	Water/Solid
7470A/7471A	Mercury	Water/Solid
8260B	Volatile Organic Compounds	Water/Solid
8270C	Semivolatile Organic Compounds	Water/Solid
8330	Nitroaromatics & Nitramines	Water/Solid
8310	Polyaromatic Hydrocarbons	Water/Solid
8081A	Organochlorine Pesticides	Water/Solid

<sup>1</sup> State of New Jersey (Office of Quality Assurance) conducted an on-site assessment under National Environmental Laboratory Accreditation Conference (NELAC) requirements on March 21-23, 2006.

NFESC 413  
October 24, 2006

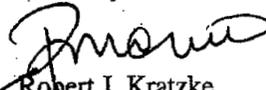
8082	Polychlorinated Biphenyls (PCBs)	Water/Solid
8015B	TPH (GRO/ DRO)	Water/Solid
6010B/7000A	TAL Metals: Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, and Zinc	Water/Solid
7196A	Hexavalent Chromium	Water/Solid

Acceptance for use for parameters not identified on the table will be determined by Navy project personnel.

The laboratory should notify NFESC if there are parameters not presented on Table 1 that the laboratory expects to run on a routine basis in support of Navy installation restoration projects. In these circumstances the laboratory's capability to run the tests will be reviewed and the table will be modified accordingly.

Questions concerning the information provided should be directed to the NFESC IR QA Program coordinator, Ms. Patricia Moreno at (805) 982-1659, or via email at [pati.moreno@navy.mil](mailto:pati.moreno@navy.mil).

Sincerely,

*FOR* 

Robert J. Kratzke  
Supervisor, Consultation/Information  
Management Branch



**DEPARTMENT OF THE NAVY**

NAVAL SEA SYSTEMS COMMAND  
1333 ISAAC HULL AVE SE  
WASHINGTON NAVY YARD DC 20376-0001

IN REPLY TO

5090  
Ser 04XQ(LABS)/125  
29 Jun 06

From: Director, Laboratory Quality and Accreditation Office (LQAO)  
To: Columbia Analytical Services, Inc.  
1 Mustard Street Suite 250  
Rochester, New York 14609

Subj: PERCHLORATE STANDARD OPERATING PROCEDURE REVIEW

Encl: (1) Review of the standard operating procedure (SOP) for perchlorate analysis of  
Columbia Analytical Services (CAS) Inc., Rochester, New York

1. Enclosure (1) provides a documentation review of the SOP for perchlorate analysis using a mass spectrometry method for CAS Inc.- Rochester.
2. If you have any questions, please contact Bill Ingersoll, at (843) 764-7337 Ext. 24 or via e-mail at [ingersollws@navsea.navy.mil](mailto:ingersollws@navsea.navy.mil).

  
E. B. HARTZOG, JR.

**LABORATORY QUALITY AND ACCREDITATION OFFICE (LQAO)  
SEA 04XQ(LABS)/CNO 457L  
1661 Redbank Road, Room 202A  
Goose Creek, SC 29445**

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**Perchlorate Standard Operating  
Procedure Review for  
Columbia Analytical Services, Inc.  
Rochester, New York**

**Prepared for:**  
Naval Facilities Engineering Service Center  
1100 23<sup>rd</sup> Avenue  
Port Hueneme, CA 93043

**Prepared on:**  
29 Jun 06

Enclosure (1)

The purpose of this review is to determine if the laboratory submitted standard operating procedure (SOP) for perchlorate analysis titled, *Perchlorate in Water, Soils, and Solid Wastes Using High Performance Liquid Chromatography/Electrospray Ionization/ Mass Spectrometry (HPLC/ESI/MS) for DoD, Revision 0, (HPLC-6850DoD)*, demonstrates conformance with the method requirements in the *DoD Perchlorate Handbook (March 2006)*.

The laboratory SOP conforms with the requirements in the *DoD Perchlorate Handbook (March 2006)*. For further information, please contact Bill Ingersoll at 843-764-7337 ext. 24 or via email at [ingersollws@navsea.navy.mil](mailto:ingersollws@navsea.navy.mil).