

Issued Date: June 15, 2011

REQUEST FOR PROPOSALS
FOR
EPD LABORATORY INFORMATION SYSTEM SOFTWARE AND IMPLEMENTATION
RFP #Y11-621-GJ

The Orange County Board of County Commissioners, Orange County, Florida, invites interested parties to submit proposals **no later than 2:00 PM, Thursday, July 7, 2011**, for the Environmental Protection Division's (EDP) Laboratory Information System Software and Implementation for the Board of County Commissioners.

Sealed proposals will be accepted at and copies of the Request for Proposals may be obtained from: Orange County Purchasing and Contracts Division, Internal Operations Centre II, 400 E. South Street, 2nd Floor, Orlando, FL 32801.

Copies may be requested by phoning (407) 836-5635 or faxing a request to (407) 836-5899. Solicitations are also available for downloading from the Internet at orangecountyfl.net. Email gale.johnson@ocfl.net for excel format of Section 4 functional requirements. The completed Section 4 CD **MUST** be returned with proposal.

Johnny Richardson, CPPO, CACM
Manager, Purchasing and Contracts Division

NOTICE TO PROPOSERS

To ensure that your proposal is responsive, you are urged to request clarification or guidance on any issues involving this solicitation before submission of your response. Your point-of-contact for this solicitation is Gale Johnson, Purchasing Agent, at (407) 836-5636, whose email address is gale.johnson@ocfl.net. **You may contact Gale Johnson at any time during this process, including during the Black Out Period.**

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REQUEST FOR PROPOSALS

FOR

EPD LABORATORY INFORMATION SYSTEM SOFTWARE AND IMPLEMENTATION

RFP #Y11-621-GJ

PURPOSE:

The Orange County Board of County Commissioners, Orange County, Florida, is soliciting for a Laboratory Information System for the Environmental Protection Division (EPD).

INSTRUCTIONS TO PROPOSERS:

Firms or companies desiring to provide services, as described in the Scope of Work, shall submit sealed proposals in an original and eight (8) copies not later than **2:00 PM local time Thursday, July 7, 2011**, to the Orange County Purchasing and Contracts Division, Internal Operations Centre II, 400 E. South Street, 2nd Floor, Orlando, Florida 32801, (407) 836-5635.

Offers by telephone or telegram shall not be accepted. Also, proposers are instructed **NOT** to fax their proposal. **Faxed proposal shall be rejected as non-responsive regardless of where the fax is received.**

It is the sole responsibility of the proposer to ensure that his or her proposal reaches the Purchasing and Contracts Division. **Proposals received after the specified time and date shall be returned unopened.** The time/date stamp clock located in the Purchasing and Contracts Division shall serve as the official authority to determine lateness of any proposal. **The decision to refuse to consider a proposal that was received beyond the date/time established in the solicitation shall not be the basis for a protest pursuant to the Orange County Code (Procurement Ordinance).**

Respondents are cautioned that they are responsible for delivery to the specific location cited above. Therefore, if your proposal is delivered by an express mail carrier or by any other means, it is your responsibility to ensure delivery to the above address. This office will not be responsible for deliveries made to any place other than the specified address.

All proposals will be opened publicly and the names of all proposers shall be read aloud.

TERMS AND CONDITIONS:

1. The County reserves the right to accept or reject any or all proposals, with or without cause, to waive technicalities, or to accept the proposal which, in its sole judgment, best serves the interest of the County, or to award a contract to the next most qualified proposer if a successful proposer does not execute a contract within thirty (30) days after approval of the selection by the Board of County Commissioners or other competent authority.

Orange County reserves the right, and the Manager of Purchasing and Contracts Division has absolute and sole discretion, to cancel a solicitation at any time prior to approval of the award by the Board of County Commissioners when such approval is required. The decision to cancel a solicitation cannot be the basis for a protest pursuant to the Orange County Code.

2. The County reserves the right to request clarification of information submitted and to request additional information of one or more applicants.
3. Any proposal may be withdrawn until the date and time set above for the submission of the proposals. Any proposals not so withdrawn shall constitute an irrevocable offer, for a period of ninety (90) days, to provide to the County the services set forth in this Request for Proposals, or until one or more of the proposals have been awarded.
4. Proposals shall be sealed and proposers should indicate on their proposal the following:
 - A. Request for Proposal Number
 - B. Date of Opening
 - C. Name of Proposer
5. Costs of preparation of a response to this request for proposals are solely those of the proposer. The County assumes no responsibility for any such costs incurred by the proposer. The proposer also agrees that the County bears no responsibility for any costs associated with any administrative or judicial proceedings resulting from the solicitation process.
6. The proposer receiving the award will obtain or possess the following insurance coverages, and will provide Certificates of Insurance to the County, with the Certificate Holder listed as Orange County Board of County Commissioners, to verify such coverage.

Consultant agrees to maintain on a primary basis and at its sole expense, at all times throughout the duration of this contract the following types of insurance coverage with limits and on forms (including endorsements) as described herein. These requirements, as well as the County's review or acceptance of insurance maintained by Consultant is not intended to and shall not in any manner limit or qualify the liabilities or obligations assumed by Consultant under this contract.

The Consultant shall require and ensure that each of its sub-contractors/consultants providing services hereunder (if any) procures and maintains until the completion of their respective services, insurance of the types and to the limits specified herein.

Insurance carriers providing coverage required herein must be licensed to conduct business in the State of Florida and must possess a current A.M. Best's Financial Strength Rating of A- Class VIII or better.

(Note: State licenses can be checked via www.floir.com/companysearch/ and A.M. Best Ratings are available at www.ambest.com)

Required Coverage:

- A. Workers' Compensation - The Consultant shall maintain coverage for its employees with statutory workers' compensation limits, and no less than \$100,000 each incident of bodily injury or disease for Employers' Liability. Said coverage shall include a waiver of subrogation in favor of the County. **Elective exemptions as defined in Florida Statute 440 will be considered on a case-by-case basis. Any Consultant using an employee leasing company shall complete the Leased Employee Affidavit (Exhibit A).**
- B. Commercial General Liability - The Consultant shall maintain coverage issued on **the most recent version of the ISO form as filed for use in Florida or its equivalent**, with a limit of liability of not less than \$500,000 per occurrence. Consultant further agrees coverage shall not contain any endorsement(s) excluding or limiting Product/Completed Operations, Contractual Liability, or Separation of Insureds. The General Aggregate limit shall either apply separately to this contract or shall be at least twice the required occurrence limit.
- C. Business Automobile Liability - The Consultant shall maintain coverage for all owned; non-owned and hired vehicles issued on **the most recent version of the ISO form as filed for use in Florida or its equivalent**, with limits of not less than \$500,000 per accident. In the event the Consultant does not own automobiles the Consultant shall maintain coverage for hired and non-owned auto liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

By entering into this contract, Consultant agrees to provide a waiver of subrogation in favor of the County for the workers' compensation and a waiver of transfer of rights of recovery in favor of the County for general liability policies as required herein. When required by the insurer or should a policy condition not permit the Consultant to enter into a pre-loss agreement to waive subrogation without an endorsement, then Consultant agrees to notify the insurer and request the policy be endorsed with a Waiver of Subrogation or a Waiver of Transfer of Rights of Recovery Against Others endorsement.

Consultant agrees to endorse the County as an Additional Insured with a CG 20 26 Additional Insured – Designated Person or Organization endorsement, or its equivalent to all commercial general liability policies. The additional insured shall be listed in the name of Orange County Board of County Commissioners.

Any request for an exception to these insurance requirements must be submitted in writing to the County for approval.

Prior to execution and commencement of any operations/services provided under this contract the Consultant shall provide the County with current certificates of insurance evidencing all required coverage. **In addition to the certificate(s) of insurance the Consultant shall also provide a blanket**

(Exhibit B) or specific (Exhibit C) Additional Insured Endorsement and all Waiver of Subrogation (Exhibit D) or Waiver of Transfer of Rights of Recovery (Exhibit E) endorsements for each policy as required above. For continuing service contracts renewal certificates shall be submitted upon request by either the County or its certificate management representative. The certificates shall clearly indicate that the Consultant has obtained insurance of the type, amount and classification as required for strict compliance with this insurance section. No material change or cancellation of the insurance shall be effective without thirty (30) days prior written notice to the County. Certificates shall specifically reference the respective contract number.

The certificate holder shall read:
Orange County Board of County Commissioners
Purchasing & Contracts Division
400 E. South Street
Orlando, Florida 32801

Provided, however, if the contract between the County and the Contractor is deemed by a court of competent jurisdiction to be a construction contract for purposes of Section 725.06, Florida Statutes, any obligation of the Contractor to defend, indemnify or hold harmless the County, shall be limited to an obligation to indemnify or hold harmless the County, its officers and employees from liability damages, losses, and costs, including but not limited to reasonable attorneys fees, to the extent caused by the negligence, recklessness or intentionally wrongful conduct of the contractor and persons employed or utilized by the Contractor in the performance of the contract.

7. **DRAFT CONTRACT**

The contract that the County intends to use for award is enclosed for reference. Any exceptions to this standard contract must be clearly indicated by return of the standard contract with the proposal, with exceptions clearly noted. The County has the right to require the selected respondent to sign the attached contract or to negotiate revisions to the contract language prior to execution of the contract, at its sole discretion.

Modification or alteration of the documents contained in the solicitation or contract shall only be valid if mutually agreed to in writing by the parties.

8. The awarded contractor shall establish and maintain a reasonable accounting system, which enables ready identification of contractor's cost of goods and use of funds. Such accounting system shall also include adequate records and documents to justify all prices for all items invoiced as well as all charges, expenses and costs incurred in providing the goods for at least five (5) years after completion of this contract. The County or its designee shall have access to such books, records, subcontract(s), financial operations, and documents of the contractor or its subcontractors as required to comply with this section for the purpose of inspection or audit anytime during normal business hours at the

contractor's place of business. This right to audit shall include the contractor's subcontractors used to procure goods or services under the contract with the County. Contractor shall ensure the County has these same rights with subcontractor(s) and suppliers.

9. **Shortlists, Protests and Lobbying:** The recommended short list of firms, in high to low order, will be posted for review by interested parties at the Purchasing and Contracts Division and also on the internet at **<http://apps.ocfl.net/OrangeBids/AwardsRec/default.asp>** prior to submission through the appropriate approval process and will remain for a period of five full business days. Failure to file a protest to the Purchasing and Contracts Manager by 5:00 PM on the fifth full business day after posting date shall constitute a waiver of protest proceedings. **Additional information relative to lobbying and protests can be found at the following site:**

Orange County Lobbyist Regulations General Information–

<http://www.ocfl.net/Portals/0/Resources/Internet/govern/Lobbying/docs/200814.pdf> and **<http://www.ocfl.net/protest>**

A lobbying blackout period shall commence upon issuance of the solicitation until the Board selects the successful proposer. For procurements that do not require Board approval, the blackout period commences upon solicitation issuance and concludes upon contract award.

The Board of Commissioners may void any contract where the County Mayor, one or more County Commissioners, or a County staff person has been lobbied in violation of the black-out period restrictions of Ordinance No. 2002-15.

10. Information regarding Procurement Committee scheduling and Board approvals are available by calling the Purchasing and Contracts Reception Desk at (407) 836-5635.
11. **PUBLIC ENTITY CRIME**

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal on a contract to provide any goods or services to a public entity, may not submit a proposal on a contract with a public entity for the construction or repair of a public building or public work, may not submit proposals on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under a contract with any public entity and may not transact business with any public entity in excess of the threshold amount provided in Florida Statute Section 287.017, for CATEGORY TWO for a period of thirty-six (36) months from the date of being placed on the convicted vendor list.

12. **AVAILABILITY OF FUNDS**

The County's performance and obligation to pay under this contract is contingent upon an annual appropriation for its purpose by the Board of County Commissioners.

13. **TOBACCO FREE CAMPUS**

All Orange County operations under the Board of County Commissioners shall be tobacco free. This policy shall apply to parking lots, parks, break areas and worksites. It is also applicable to contractors and their personnel during contract performance on county-owned property. Tobacco is defined as tobacco products including, but not limited to, cigars, cigarettes, pipes, chewing tobacco and snuff. Failure to abide by this policy may result in civil penalties levied under Chapter 386, Florida Statutes and/or contract enforcement remedies.

14. **SCHEDULE OF SUBCONTRACTING**

Proposers shall list **all** proposed sub-consultants to be used, regardless of racial or gender grouping. Include names, addresses, phone numbers, type of work subcontracted (discipline, trade or commodity), proposed percentage of work, and the M/WBE or Majority designation (M/WBE or Non-M/WBE).

15. **EQUAL OPPORTUNITY**

It is hereby declared that equal opportunity and nondiscrimination shall be the County's policy intended to assure equal opportunities to every person, regardless of race, religion, sex, sexual orientation and gender expression/identity, color, age, disability or national origin, in securing or holding employment in a field of work or labor for which the person is qualified, as provided by Section 17-314 of the Orange County Code and the County Administrative Regulations.

Further, the Consultant shall abide by the following provisions:

- A. The Consultant shall represent that the Consultant has adopted and maintains a policy of nondiscrimination as defined by applicable County ordinance throughout the term of this contract.
- B. The Consultant shall allow reasonable access to all business and employment records for the purpose of ascertaining compliance with the non-discrimination provision of the contract.
- C. The provisions of the prime contract shall be incorporate by the Consultant into the contracts of any applicable subcontractors.

16. **SOURCE AND OBJECT CODE**

Upon final system acceptance, a copy of the complete source code programs of the entire System shall be placed in escrow, along with any updated version of the software.

QUESTIONS REGARDING THIS RFP:

Proposers shall not direct any queries or statements concerning their proposal to the Orange County Procurement Committee or County staff during the selection process, from the time of submission of a proposal until the execution of a contract. Any proposer who initiates any discussions with staff in any manner other than that described below is subject to disqualification from this procurement.

All questions or concerns regarding this Request for Proposals must be submitted in writing, faxed to (407) 836-5899 or by email to Gale.Johnson@ocfl.net or mailed to the Purchasing and Contracts Division, Internal Operations Centre II, 400 E. South Street, Orlando, FL 32801, no later than 5:00 PM Friday, June 24, 2011 to the attention of Gale Johnson, Purchasing and Contracts Division, referencing the RFP number. When required the Purchasing and Contracts Division will issue an addendum to the Request for Proposals. The addendum will be available on the Internet for access by potential proposers. Proposers are instructed not to contact the initiating division directly. No oral interpretation of this Request for Proposal shall be considered binding. The County shall be bound by information and statements only when such statements are written and executed under the authority of the Manager of the Purchasing and Contracts Division. **You may contact Gale Johnson at any time during this process, including during the Black Out Period.**

This provision exists solely for the convenience and administrative efficiency of Orange County. No proposer or other third party gains any rights by virtue of this provision or the application thereof, nor shall any proposer or third party have any standing to sue or cause of action arising there from.

DEBRIEFING OF PROPOSERS:

Not later than thirty (30) days after Board approval of a selection or shortlist, a proposer may submit a written request to the applicable contract administrator or purchasing agent for a debriefing on the evaluation of their proposal. The contract administrator/purchasing agent will schedule a meeting with the proposer for the debriefing. However, at the proposer's request, the debriefing may be conducted via telephone conference or the proposer may request a copy of the digital recording of the selection on CD for a \$30.00 fee per CD. The debriefing shall include the following minimum information:

1. Key requirements of the solicitation.
2. The overall ranking of all proposals.
3. The significant weaknesses or deficiencies in the proposal in response to the requirements of the solicitation.
4. If requested, an explanation of the score received for each evaluation criteria will be provided, including costs, if applicable.
5. If applicable, a summary of the rationale for award.

6. Responses to any relevant questions of the proposer.

Untimely debriefing requests will also be considered.

REFERENCE CHECKS:

The contact person listed as a reference shall be someone who has personal knowledge of the Proposer's performance during the referenced contract. Contact persons must have been informed that they are being used as a reference and that the County may be calling them. More than one person can be listed but all must have knowledge of the project. DO NOT list principals or officers who will not be able to answer specific questions regarding the project.

Failure of references listed to respond to the County's inquiries may negatively impact the evaluation of the Proposal. The reference shall be the owner or a representative of the owner.

PROPOSAL FORMAT:

The County reserves the right to award a contract pursuant to this RFP without further discussion with Proposers. Therefore, it is important that each proposal is complete, adheres to the format and instructions contained herein, and is submitted in the most favorable manner possible.

Proposers must respond in the format delineated below and tabbed as applicable.

The following information shall be submitted with your proposal. Failure to submit this information in its entirety will negatively impact the evaluation of your proposal.

1. **Proposers are required to provide responses in writing on 8½" x 11" paper with a type size no less than 10 point and in electronic format (MS Word or Adobe .pdf) on CD. Specifically the Excel formatted requirements table distributed with this RFP must be completed and returned on the CD.**
2. Hard copy proposals shall be clearly organized with a divider for each section, presented in the specific order. Submit one original and eight copies.
3. The proposer shall limit explanations to one (1) page or less per question. **Do not attach manuals or other documentation in lieu of written explanations.** Explanation response pages shall indicate section number, subsection number and question number. Each section and subsection shall start on a new page, but multiple questions may appear on the same page. Explanation response pages shall follow the question response forms for each section in the proposal response binder.
4. **COST PROPOSAL: Each Proposer must complete and submit the Cost Proposal included herein as per the instructions and on the forms provided in Section 5. Do not submit these at time of submission of the initial RFP response. The County will only request Cost Proposals from proposers who advance to the final stage of the evaluation process.**

The following information (Items 5 through 11) should be submitted to insure that your proposal is adequately evaluated. Failure to provide this information will negatively impact the score of your proposal.

5. **MINORITY/WOMEN OWNED BUSINESS ENTERPRISE:**

- A. Proposers must address how they intend to comply with the Orange County M/WBE Ordinance, No. 94-02 and amended by Ordinance No. 2009-21. The goal of 24% utilization of certified minority/women business enterprise is applicable to this project. The Ordinance also addresses minority/women group employment levels setting goals to encourage each Proposer to maintain 24% minority and women employee workforce levels in specific categories.
- B. All participating M/WBE firms must be **currently certified by Orange County**. The Business Development Division's most recent M/WBE directory is available by e-mail or through the Orange County web site at OrangeCountyfl.net. **Only firms having established offices in the Orlando MSA (Orange, Lake, Seminole and Osceola Counties) are eligible for Orange County certification. All firms must be Orange County certified at time of submittal of the Proposal and must be certified in the area(s) for which they will be used.** If a firm claims to be certified, but is not listed in the Directory the Proposer should obtain a copy of their Orange County Certificate and/or contact the Business Development Division at (407) 836-7317 for verification of certification.
- C. Effective August 1, 2003, the County has implemented a graduation program whereby M/WBE firms designated as graduates can participate in the M/WBE program only on specified projects. All professional service solicitations for which the County has estimated the overall contractual fees to be awarded to the prime in excess of \$500,000 are eligible for graduate M/WBE participation. The prime Consultant will receive full M/WBE credit for the use of graduate M/WBE's that meet all other requirements. The contract solicited through this RFP is estimated to be valued under \$500,000 and therefore, graduate M/WBE's are ineligible to participate. It is the proposing firm's responsibility to insure that graduate M/WBE's are not listed in proposals to meet M/WBE participation requirements on projects in which they are not eligible to participate.
- D. The County has established a **credit program** whereby Proposers are awarded credits to be applied toward meeting the M/WBE goals on certain County projects. Emphasis will be placed on credits for non-County utilization and first-time M/WBE utilization. Proposers are encouraged to contact the Business Development Division for information on acquiring and applying the credits.
- E. Proposers **must submit signed Letter of Intent** with their Proposal for all **current Orange County certified M/WBE sub-consultants** identified on the **SCHEDULE OF SUBCONTRACTING - M/WBE PARTICIPATION**

FORM. These Letters of Intent must indicate the scope of work to be performed by every M/WBE plus the percentage of the contract fees to be contracted to the listed sub-consultant.

- F. The awarded prime Consultant's responsibilities and requirements are itemized below:
- i. Incorporate a 72-hour prompt payment assurance provision and payment schedule in all contracts between the prime and sub-consultants.
 - ii. File copies of **all executed sub-consultant agreement/contracts** between the **prime and all M/WBE sub-consultants on the project** to Orange County Business Development Division.
 - iii. The awarded prime Consultant shall furnish written documentation evidencing actual dollars paid to each sub-consultant utilized by the prime Consultant on the project. This will include, but not limited to: copies of cancelled checks, approved invoices, and signed affidavits certifying the accuracy of payments so that the County may determine actual participation achieved by the prime Consultant prior to the issuance of final payment.
 - iv. The prime Consultant shall submit an updated quarterly MWBE utilization report and the "Employment Data, Schedule of Minorities And Women" report for all professional service contracts. The required reports are to be submitted to the Business Development Division no later than the fifth day after end of reporting period.
 - v. The awarded prime Consultant shall not substitute, replace or terminate any M/WBE firm without prior written authorization of the County, nor shall the prime reduce the scope of work or monetary value of a sub-consultant without written authorization of the County. The prime Consultant shall notify the Business Development Division of any additional awards to the M/WBE firm on the prime Consultant's team and the addition of any new M/WBE firm to the prime Consultant's team on that project.
 - vi. The prime Consultant shall expeditiously advise all M/WBE's and the Business Development Division of all change orders, contract modifications, additions and deletions to any and all contracts issued to the M/WBE firm on their team.

Execution of the contract between Orange County and the Proposer shall be contingent upon the filing of executed contracts between the Proposer and the M/WBE subs listed on the SCHEDULE OF SUBCONTRACTING - M/WBE PARTICIPATION FORM with the Business Development Division.

Proposers are expressly prohibited from substituting sub-consultants projected to perform five percent (5%) or more of the overall work as stated in the written Proposal. Such substitution, for any reason, after opening of the Proposal, and prior to award by the County, shall result in disqualification of the Proposal from

further consideration for award, except in extraordinary circumstances. Examples of such circumstances are the sub-consultants' firm going out of business; death of the owner of the firm; or the inability of the sub-consultant to perform the work specified. Should such an occurrence arise, it must be substantiated, and the sub- substitution approved, by the County prior to contact execution.

Requests for substitution of sub-consultants who are cumulatively scheduled to perform less than five percent (5%) of the over-all scope of services may be considered only prior to final scoring of Proposals by the Procurement Committee. Such requests for substitution must be in writing accompanied by a written withdrawal from the originally listed sub-consultant. Failure to comply with these requirements shall result in disqualification of the Proposal from further consideration for award. The Procurement Committee shall be the sole determinant regarding acceptance/rejection of requested substitutions.

The proposer understands that this RFP does not constitute an agreement or contract with the Proposers.

Any Proposers who submits a Proposal to the County with any information that is determined by the County, in its sole opinion, to be substantially inaccurate, misleading, exaggerated, or incorrect may be disqualified from consideration.

6. **Complete the attached Conflict/Non-Conflict of Interest and Litigation Statement (with attachments) as necessary.**
7. **ETHICS COMPLIANCE**

The following forms are included in this solicitation and shall be completed and submitted as indicated below:

- A. **Orange County Specific Project Expenditure Report -The purpose of this form is to document any expenses incurred by a lobbyist for the purposes described in Section 2-351, Orange County Code.** This form shall be completed and submitted with any bid, proposal or other response to an Orange County solicitation. The bidder, proposer or responder to the solicitation shall not be awarded a contract unless this form has been completed and submitted. Any questions concerning this form shall be addressed to the purchasing agent or contract administrator identified in the applicable solicitation. Also, a listing of the most frequently asked questions concerning this form is attached for your information.
- B. **Relationship Disclosure Form – The purpose of this form is to document any relationships between a bidder, proposer or responder to an Orange County solicitation and the Mayor or any other member of the Orange County Board of County Commissioners.** This form shall be completed and submitted with the applicable bid, proposal or response to an Orange County solicitation.

No contract award will be made unless this form has been completed and submitted. Any questions concerning this form shall be addressed to the purchasing agent or contract administrator identified in the applicable solicitation. Also, a listing of the most frequently asked questions concerning this form is attached for your information.

8. Complete the Authorized Signatories/Negotiators Form.
9. The Drug-Free Workplace Form, attached hereto, must be submitted prior to award of the proposal. **Failure to submit this form prior to award of the proposal shall be cause for rejection/disqualification of your proposal. Failure to certify the firm has a drug-free workplace in accordance with Florida Statutes 287.087 shall result in rejection/disqualification of your proposal.**

10. **VERIFICATION OF EMPLOYMENT STATUS**

Prior to the employment of any person under this contract, the contractor shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the contractor to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the contractor to perform work pursuant to the contract with Orange County. Please refer to USCIS.gov for more information on this process.

Only those employees determined eligible to work within the United States shall be employed under the contract.

Therefore, by submission of a bid or proposal in response to this solicitation, the contractor confirms that all employees in the above categories will undergo e-verification before placement on this contract. The contractor further confirms his commitment to comply with this requirement by completing the E- Verification certification.

11. **BONUS POINTS FOR HIRING OF WELFARE RECIPIENTS**

Proposers may be awarded a maximum of five (5) bonus points for a commitment to hire welfare recipients residing in Orange County, Florida as fulltime employees. One point will be awarded for each new fulltime hire up to and including a maximum of five (5) points. To be eligible for bonus points, Proposers must complete Form WR- Section I (attached) listing the number of welfare recipients to be hired fulltime and submit with the Proposal. Bonus points shall only be awarded once for any one individual hired. Individuals hired may be employed in any position within the firm but must be hired on a fulltime basis.

Within five (5) days after the contract award, the Proposer shall contact the BDD Liaison at (407) 836-7317 to assist with meeting this requirement.

The failure of the consultant to comply with these hiring commitments after contract award shall be grounds for termination of the contract for default.

During performance of the contract, the Consultant will take appropriate steps to ensure that individuals hired under this program are retained. However, if it becomes necessary to replace an employee, the Consultant shall contact the BDD Liaison. At its discretion, the County may periodically request submission of certified payrolls to confirm the employment status of program participants.

12. **SELECTION CRITERIA:**

A. **PURPOSE**

The purpose of this RFP is to purchase, install and maintain an electronic Laboratory Information Management System (LIMS) that captures pertinent data, allows reporting from that data and is flexible enough to accommodate County operations and procedures. This system will automate the laboratory processes of the Orange County Environmental Protection Division's laboratory. The County anticipates requiring approximately five (5) user licenses for use on networked desktop personal computers. This RFP requests technical and non-technical information in regard to such a software application and implementation. The purpose of the RFP is to identify software packages that meet the County's requirements.

The County will contract with only one contractor to provide the product(s) and implement the LIMS. **Proposals from firms who may require the County to enter into separate agreements for various components of their solution shall not be accepted.** The County requires a prime contractor or single point of responsibility for the entire implementation of all products and services provided under this proposal.

The contractor shall also provide maintenance, support and training services for all products and software included in the contract. The maintenance services offered by the proposer shall be in addition to any and all warranties normally offered. Proposers shall include the first year of software maintenance, and standard support (during normal business hours) as part of their fee proposal.

B. **SCORING WEIGHT**

The Company Profile and Technical Requirements below, refer to the weighted scoring from Section 3. The Functionality below refers to the weighted scoring from Section 4.

SCORING CRITERIA	WEIGHT
Company Profile and Technical Requirements	300
Functionality	400
M/WBE Compliance	100
Cost	200
TOTAL	1000

SECTION 1

EVALUATION

Proposals will be evaluated in a three-phase approach. Phase 1 will focus on the written proposals addressing vendor information, functionality, design and compliance issues. Phase 2 will focus on product demonstrations and methodology. Phase 3 will be cost proposal and M/WBE participation. The County retains the right to ask for additional information during any phase to aid in the evaluation process. County staff will make a recommendation to the Board of County Commissioners (BCC) for final selection.

PHASE 1 – Evaluation of the Qualification Response

Proposals will be evaluated in this phase based on the written proposal. County staff will evaluate system functionality and design found in Sections 3 and 4. The evaluation score for Phase 1 will be calculated based on the weighted criteria in the table below. Only those proposers whose responses are judged to substantially meet the County's requirements as outlined in the RFP document shall be selected to continue to Phase 2 of the evaluation process.

Written Response

The written response portion for Phase I will be calculated based on the following weighted criteria.

<u>SECTION</u>	<u>SELECTION CRITERIA</u>	<u>WEIGHT</u>
3 A,B,C,D,E,F,G	Vendor Information, Security Standards, Systems Implemented, Product Profile, and Regulatory Requirements	50
3 H,I,J,K,L,M,N,O,P	Product Direction, Implementation, Training, Maintenance and Support, Technical Environment, Performance, Application Features, Documentation, and General Questions	250
4 (all items)	Functional Requirements	400
	TOTAL	700

The formula for calculating an evaluation score is as follows: Each section has a maximum number of points assigned based on the number and type of questions asked. The total number of points the proposer receives for each section will be divided by the maximum number of possible points for the section to obtain a percentage. These percentages will be carried to one (1) decimal place (standard rounding procedures will be followed) and applied to the weights above to reach a score (rounded to a whole number) for each section.

Section 3 will be evaluated using a score of 1 to 5 for each question with 1 being the lowest score and 5 being the highest score.

EXAMPLE: Section 3G contains 10 questions with a possible total of 50 points. The proposer receives 37 points giving them a rating of 74% (37 divided by 50). The % derived will be applied to the maximum available points for that section (74%x50=37).

Section 4 will be evaluated using the following scoring criteria. Responses to the questions shall be based on the contractor's ability to ensure each requirement will be delivered to the client in the Production environment fully functional once the client is Live on the new system and after rigorous testing and acceptance in the pre-Production environment.

AS A REMINDER, PROPOSERS SHALL PROVIDE THEIR ANSWERS TO SECTION 4 REQUIREMENTS USING THE EXCEL FILE ON THE CD PROVIDED BY THE COUNTY. FAILURE TO DO SO SHALL RENDER YOUR PROPOSAL NON-RESPONSIVE.

Each requirement has been assigned a priority code as defined below:

- | | | |
|---|------------|---|
| 3 | Critical | Orange County Environmental Protection Division "requires" this feature and cannot fully accomplish its business objectives without this feature. |
| 2 | Important | Orange County Environmental Protection Division will realize significant benefits from this feature in accomplishing its business objectives. |
| 1 | Beneficial | Orange County Environmental Protection Division will realize some benefits from this feature in accomplishing its business objectives. |

The columns for your response represent the possible responses that the proposer can make for each requirement. Proposers are to indicate the proper response code in the space provided to the right of the priority code. Definitions are listed below:

- | | |
|---|---|
| A | This requirement is implemented without the use of plug ins, configuration, etc. to meet the needs of Orange County. |
| B | This requirement is available using configuration to meet the needs of Orange County Environmental Protection Division and will be implemented at no additional charge as part of the baseline product. |
| C | This requirement is not part of the "Baseline" functionality but can be provided as a plug in, algorithm, etc. A description of the work and pricing will be included with the RFP response included. |
| D | The proposer will not be able to deliver this requirement and it will not be included in the proposal. |

REF The proposer is to provide an explanation for each and every functional requirement that has restrictions, limitations or needs clarification. Further, the proposer is to provide an explanation of each item that is not a part of the “Baseline” and requires a plug-in, configuration, algorithm, etc. by referencing the item number and describing the work to be completed in “detail”. Do not copy technical material or attach canned documentation. Explanations should be concise including work to be performed, purpose of work, and risks associated with the work. Use a separate sheet of paper for explanations if needed and simply indicate on the “REF” line a Reference Item Number corresponding to the item on your additional sheet(s) so that it can be easily found during the scoring process. **Any additional work or additional time needed for configuration of complex items should also be reflected in the project plan time line as requested in Section 3.**

Your response to these items will be evaluated and scored as indicated below:

YOUR RESPONSE	OUR PRIORITY	YOUR SCORE ON THIS ITEM
A	3	9
A	2	6
A	1	3
B	3	6
B	2	4
B	1	2
C	3	3
C	2	2
C	1	1
D	0	0
D	0	0
D	0	0

PHASE 2 – On Site Product Demonstrations with review of Phase I Responses and Fact Finding

Only those proposers whose written proposals are judged to substantially meet the County’s Phase 1 requirements shall be allowed to participate in Phase 2 of the evaluation process, product demonstrations and fact finding.

1. During the product demonstrations, proposers will be asked to make an oral, onsite or WEBEX or GoToMeeting type presentation and provide a demonstration of their proposed solution. The presentation will provide proposers with an opportunity to explain the functional and technical capabilities of their product. Proposers shall also be prepared to answer detailed questions regarding their response to the County’s functional requirements identified in the RFP including required custom modifications, data conversion and interface requirements. All demonstrations must be presented by staff that are familiar with the technical aspects and design constraints of the product. This presentation shall either be conducted in Orlando, Florida or from the vendor location via WEBEX or GoTo Meeting or similar web conferencing platform that will allow the County to view the full functionality of the product. The County may videotape the demonstrations at its discretion.

2. The fact finding portion of the presentation is to follow the product demonstration. The fact finding provides the opportunity for the proposer to hear/view and understand County existing systems, processes and procedures, and gather all of the necessary information, details and clarifications that will assist the proposer in the preparation and finalization of their cost proposal.
3. The specific place and time for the product presentation and fact finding will be determined after the preliminary evaluation of the proposals has been completed. Qualified proposers shall be notified of their scheduled demonstration date as soon as possible. The County anticipates that the length of demonstrations and fact finding combined will be limited to one eight-hour business day. Therefore, each vendor that qualifies for Phase 2 shall have one day to provide both the product demonstration and fact finding.
4. The County's technical committee will evaluate each proposer's demonstration using the same criteria and methods shown in Phase 1 of the evaluation process.

PHASE 2 – On Site Product Demonstration with review of Phase 1 and Fact Finding Scoring

<u>SECTION</u>	<u>SELECTION CRITERIA</u>	<u>WEIGHT</u>
3 A,B,C,D,E,F,G	Vendor Information, Security Standards, Systems Implemented, Product Profile, and Regulatory Requirements	50
3 H,I,J,K,L,M,N,O,P	Product Direction, Implementation, Training, Maintenance and Support, Technical Environment, Performance, Application Features, Documentation, and General Questions	250
4 (all items)	Functional Requirements	400
	TOTAL	700

Each product demonstration/fact finding will be evaluated in all categories with the weight listed above being a maximum score.

The formula for calculating an evaluation score is as follows: Each section has a maximum number of points assigned based on the number and type of questions asked. The total number of points the proposer receives for each section will be divided by the maximum number of possible points for the section to obtain a percentage. These percentages will be carried to one (1) decimal place (standard rounding procedures will be followed) and applied to the weights above to reach a score (rounded to a whole number) for each section.

The Technical Committee will determine those proposers recommended for Phase 3 based on the functional requirements as stated in Sections 3, 4 and 5 of this RFP and scopes of work for custom modifications, data conversion, and interface requirements.

PHASE 3 – Cost and M/WBE Participation

Only those proposers whose responses are judged to substantially meet the County's Phase 2 requirements shall be allowed to participate in Phase 3 of the evaluation process, cost and M/WBE participation.

The cost and M/WBE participation portion for Phase 3 will be calculated based on the following weighted criteria.

<u>SECTION</u>	<u>SELECTION CRITERIA</u>	<u>WEIGHT</u>
	M/WBE Compliance	100
5	Cost	200

M/WBE will be calculated by the Orange County Business Development Division based on proposer responses.

Each proposer's cost proposal, Section 5 of this RFP, will be due seven (7) calendar days from the day of notification by the County. The points for cost will be determined through a cost analysis to include the following total submitted costs, timeliness of delivery and installation, and additional projected costs to the County as a result of implementation of the proposer's system.

COST ANALYSIS EXAMPLE: Proposer X, bids \$50,000 in Phase 3 and receives 200 points, the maximum number of points available for the cost. Proposer Y, bids \$60,000. The ratio of the lowest bidder to the highest bidder is \$50,000 / \$60,000 which equal 83.3%. Proposer Y receives the ratio, 83.3%, times the maximum, 200, which is 166 points for the cost portion of Phase 3.

The short list shall be determined based on the cumulative scores of Phase 1, 2 and 3.

CONTRACT

It is the County's intent to enter into a single contract with the most qualified proposer. **During Phase 2 of the fact finding meeting with the proposer, the County will discuss the draft contract and articles. Proposers selected to continue to Phase 3 are instructed to submit, with the "Section 5, Cost Proposal", any contract Article exceptions. It is the County's intent the contract will have been reviewed with proposer's counsel PRIOR to the reaching Phase 3 and submission.**

ALTERNATE PROPOSAL

The proposer may offer an alternate proposal for the services required by this solicitation which may include:

- A. Alternate technical solutions to the requirements of the scope of service.
- B. Alternate pricing structures.

The alternate proposal shall be clearly identified under a separate tab with associated pricing structure changes as appropriate. It shall be submitted with the basic proposal that is in response to the specific requirements of the solicitation.

Consideration of an alternate proposal shall be at the sole discretion of the County.

SECTION 2

PROJECT INTRODUCTION

A. ORANGE COUNTY PROFILES

Orange County exercises the rights and privileges conveyed to it by the State of Florida, and the Orange County Charter. It presently operates with an elected chief executive officer, the County Mayor, and six elected district commissioners, who together comprise the Board of County Commissioners. The Board sets policies, fees, and rates, and approves the Environmental Protection Division's budget. The County Mayor is responsible for overseeing the administration of the day-to-day operations of Orange County Government.

1. **Orange County Environmental Protection Division (OCEPD) Laboratory**

The OCEPD laboratory is housed within the EPD and falls under the Community and Environmental Services Department of Orange County government.

It serves unincorporated Orange County. The office performs various environmental testing for the entire county. During a calendar year, the laboratory handles the processing of 75,000 analytes on average. The laboratory houses several million data points encompassing thirty years of data collection.

The office is currently staffed and uses the following number of desktop devices:

Number of office/laboratory staff: 6
Number of Field Staff: 4
Number of PCs: 12

Overview of OCEDP Operations - The OCEPD laboratory section of the Environmental Protection Division is responsible for any environmental sampling and analysis that is needed by the division or other areas of County government. The majority of the sampling and analysis is scheduled surface water (non-potable) sampling on lakes and streams within the county boundary. Other sampling may consist of emergency, facility inspections, sewage overflows, soil contamination, petroleum cleanups, groundwater contamination, volunteer or any other environmental matrix. Many sub-contracted laboratories are utilized due to the nature of our work.

The daily operation of the laboratory typically includes scheduled and non-scheduled sampling events. **The following list is the operational daily routine of the lab:**

- a. Pre-login scheduled sample sites into the LIMS (includes sampler and contact info, date/time, site location, matrix, parameters, bottles, method numbers, number of samples, container lot numbers)
- b. Print out chain of custody and bottle labels for that jobs sampling (includes sampler and contact info, site location, matrix, parameters, bottles, method numbers, number of samples, parameters to be subcontracted and subcontractor info)
- c. Previous day's samples are prepped, batched, analyzed and entered into LIMS:
 - 1) Includes import of data from subcontractors
 - 2) Includes manual transcription of data from spectrophotometer and field multi-probes
- d. Several reports may be generated from LIMS on a daily basis for any of the data fields in LIMS such as Dates, Times, Result Values, Parameter names, Site Names, Method Numbers, Sampler, Geographic Location, etc.
- e. Several data queries may be needed on a daily basis for any of the data fields in LIMS such as Dates, Times, Result Values, Parameter names, Site Names, Method Numbers, Sampler, Geographic Location, etc.
- f. Login of unscheduled samples may happen at any time during the day (includes sampler and contact info, site location, matrix, parameters, bottles, method numbers, number of samples, subcontractor info)
- g. Export to various formats required by external clients (State Agencies, FDEP STORET, Municipalities, WaterAtlas website www.orange.wateratlas.org).

3. Division of Information System & Services (ISS)

The Information System & Services Division serves the County as a whole and is not part of the Environmental Protection Division. ISS provides practical technologies to enable all Departments and most constitutional officers to exploit the efficiencies derived from well-designed and supported systems for voice, data and image processing, and communication.

4. Purchasing and Contracts Division

The Purchasing and Contracts Division is a separate division of Orange County who manage the procurement of all goods and services for the County.

B. SUMMARY OF CURRENT DATA PROCESSING ENVIRONMENT

All applications proposed must comply with Orange County ISS Computing and Security Standards found in Exhibits Z – EE attached to this RFP.

1. Summary of existing environment

The current system is a full LIMS but it is utilized simply as a repository of raw data that has been analyzed only within the EPD laboratory. Due to lack of existing functionality, we must export the LIMS data into a separate repository, as well as, historical and sub-contracted data. To do this, we utilize two Microsoft Access databases: One for Pre-login and Receiving, and one for report generation, data filtering, trend analysis, and export data deliveries (EDD) to state data repositories. The trending analysis is currently all done outside of the LIMS environment. Thus several separate databases must be employed, resulting in an inefficient work flow. The system also lacks the ability to store Meta data or “data about the data”. This creates duplicate data entry processes for staff on a daily basis.

The current LIMS is comprised of Chemware Horizon and NuGenesis applications, versions 10.1. The database backend is an Oracle 10G database running on UNIX AIX 5.3.10. As of 2/10/11, the Oracle database is 1.74GB, and the MS Access databases are 3GB and 25MB.

The County database standard allows only Oracle Relational Database Management Systems (running on the UNIX (AIX) operating system platform), or Microsoft SQL Server (running on Microsoft Windows).

The Client architecture consists of Microsoft Windows XP or Windows 7, and Microsoft Office Suite 2003 and 2007.

2. Future Direction

Proposed Environment: The County is moving in the direction of Web architecture or Client/Server as allowed or required by the migration/replacement of legacy or outdated software applications. Oracle Relational Database Management System running on a UNIX (AIX) operating system or Microsoft SQL Server running under a Microsoft Windows operating system is the database standard with a Client architecture that supports Microsoft operating systems and office products. All new applications must comply with Orange County ISS Computing and Security Standards as identified in the exhibits attached to this RFP.

Client PCs: The County client PCs run using Microsoft Windows XP or Windows 7. The Microsoft Office suite software provides word processing and spreadsheet functionality.

Scanners: The County intends to add the capacity to scan documents for storage and retrieval purposes.

Software: The County’s direction is towards Web based applications, or client server with a Graphical User Interface (GUI).

3. Required Functionality of the LIMS System

The new LIMS shall be the only point of data entry for the Laboratory and Field staff. The new system shall be capable of receiving data from all functions of daily sampling, then reporting that data or making it available for queries or analysis.

Specific goals of the new system shall be:

- a. Ability to manage samples using a job or work order number hierarchy
- b. Work order or Job number is assigned to a day's sampling events; sample or lab id # assigned to specific site within that Work order or Job number, then bottle numbers for specific bottles collected
- c. Ability to pre-login daily samples prior to the sampling event
- d. Including, but not limited to: project type, sampler and contact info, date/time, site locations, matrix, parameters, bottles, method numbers, number of samples, chain of custodies, labels, preservatives, and electronic signatures Ability to perform ad hoc login of samples
- e. Including, but not limited to: sampler and contact info, date/time, site location, matrix, parameters, bottles, method numbers, preservatives, ancillary data input, electronic transfer of chain of custody, and electronic signatures
- f. Ability to track status of logged samples
- g. Ability to batch samples in a run
- h. Ability to inventory and track reagents and standards
- i. Ability to import data from instrument analysis
- j. Ability to track QC on all analysis including, but not limited to: Blanks, RPD's, duplicates, surrogates, spikes
- k. Ability to import historical data and/or subcontracted data to reside with data analyzed by our laboratory
- l. Access to all data sources in one dataset is critical for analysis
- m. Ability to allow user configurable custom reporting and querying interfaces (e.g. SQL building tools)
- n. Ability to export data into various formats required by external clients (State Agencies, FDEP STORET, Municipalities, WaterAtlas website www.orange.wateratlas.org)

SECTION 3

COMPANY PROFILE AND TECHNICAL REQUIREMENTS

Proposers shall provide a response to every numbered line item in this Section. Failure to do so may result in the proposal response being deemed non-responsive. Please provide comparable information for all subcontractors and application software providers utilized in your proposal. If an item does not apply please indicate so with an “N/A” (not applicable).

A. COMPANY PROFILE

Please provide:

- A brief history of company(s) including a summary of all products and services offered.
- How many years has the organization(s) been in business as a LIMS software vendor/implementer?
- The address and phone number of the U.S. based corporate office.
- A full client list including name, address, information technology contact and phone number, and a functional project contact and phone number.
- Two potential site visit locations of comparable size to Orange County EPD including name, address, version number of product, point of contact, and phone number.

B. ORGANIZATIONAL INFORMATION

Please provide:

An organizational chart for the division of the company(s) directly responsible for the product or services proposed in this RFP. Indicate total employees in the sales, support and service departments. Indicate the total number of employees and their distribution by function. Please indicate total employee head count by year for the last five years. Identify, with an asterisk, those categories comprised of people serving multiple roles.

- Total Employees.
- Sales.
- Technical Support.
- Research and Development.
- Maintenance.
- Management.

C. USER GROUP INFORMATION

Please provide the following information regarding user groups:

- How many members belong to the group?
- How often does the user group meet?
- Provide name, phone number and email address of the group president
- Name, address, phone number and email addresses of all members
- Are there membership fees?
- Does the user group have a bulletin board / newsgroup on the Internet?
- Does the user group provide input concerning product enhancements?
- Please provide two (2) examples of enhancements as a result of user group input.
- Is the user group a national organization or are there regional chapters?

D. SECURITY STANDARDS

Orange County Technical Security Standards are not negotiable. Please review for compliance as respondents who cannot comply with these standards will be disqualified.

1. Respondents shall have their technical staff carefully review Orange County's Enterprise Security **Antivirus** Standard found in Exhibit Z and confirm proposed product complies with these standards.
2. Respondents shall have their technical staff carefully review Orange County's Enterprise Security **Encryption** Standard found in Exhibit AA and confirm proposed product complies with these standards.
3. Respondents shall have their technical staff carefully review Orange County's Enterprise Security **Web** Standard found in Exhibit BB and confirm proposed product complies with these standards.
4. Respondents shall have their technical staff carefully review Orange County's Enterprise Security **External Data Hosting** Standard in Exhibit CC and, if your product is self-hosted, confirm proposed product complies with these standards. If not, respondents shall receive full points for an Orange County hosted product.
5. Respondents shall have their technical staff carefully review Orange County's **Desktop** Computing Standards Exhibit DD and confirm proposed product complies with these standards.

6. Respondents shall have their technical staff carefully review Orange County's Enterprise **Security Standards Summary** in Exhibit EE and confirm proposed product complies with these standards.
7. In addition, please note that the County Standard in regard to Relational Database Management Systems (**RDBMS**) includes only Oracle running on Unix AIX 5.X or higher and Microsoft SQL Server 2005/2008. Respondent shall confirm proposed product complies with these standards.

E. NUMBER OF SYSTEMS IMPLEMENTED:

Please provide:

The number of implementations performed on the version being proposed. Include each application implemented where your company was the prime contractor responsible for the project. List only the number of implementations on the version being proposed.

For each implementation, include:

1. The application and version implemented
2. The number of installations contracted in the last twelve (12) months
3. Total number contracted to date
4. Total number of live sites to date including site contact name, email address, phone number, mailing address

F. PRODUCT LINE PROFILE:

For each application release, please provide:

1. The application developed
2. The original development date
3. The date and version number of the last two (2) releases (#1 most current) for each application.

G. POLICIES REGARDING REGULATORY REQUIREMENTS:

Please describe how you would support Orange County ordinances and industry directives and best practice changes.

H. R&D ACTIVITIES/STRATEGIC PRODUCT DIRECTION

Please provide:

1. Your current research and development activities. Include percentage of total revenue reinvested in product development annually and provide the dollar figure.
2. A statement of your strategic direction for each of the product lines being proposed.

3. A statement indicating whether your product complies with the International Organization for Standardization (ISO) 9000 series of quality standards; specifically the ISO 9001:2008 version which contains the actual requirements an organization must comply with to become ISO 9001 registered? (These process standards are a set of international quality management system standards and guidelines utilized in the global market).
4. A statement indicating whether your product is compliant to NELAP quality assurance standards for environmental laboratories? (NELAP is the National Environmental Laboratory Accreditation Program housed within the NELAC Institute (TNI), a 501c3 non-profit organization. NELAP adopts standards (e.g. rules) that are based on the International Organization for Standardization (ISO) and are developed through a consensus process.

Oversight is provided by the NELAP Board which consists of one representative and one alternate from each of the 13 currently recognized accreditation bodies).

I. IMPLEMENTATION ASSISTANCE AND SUPPORT:

The County will provide management, technical, and user resources to support the project effort in accordance with the vendor's installation approach and associated activities. The successful Proposer will provide Orange County on-site implementation assistance. The County requires completion of implementation tasks and acceptance testing no more than twelve months after contract execution.

The successful Proposer will:

- Provide a pilot project or prototype (testing environment) to test functionality of the LIMS prior to full implementation.
- Provide a comprehensive installation plan complete with all activities and resources required for successful product implementation.
- Provide a comprehensive list of deliverables, including projected deadlines for supplying each item.
- Assist the project team with the loading of all static data tables.
- Create, initialize, load, and correct any or all system databases which provide management controls, security, data domains, use codes, fees, rates and other system information necessary for the successful system operation. Orange County staff will work with the contractor and will participate in this process to better understand and support the system once operational.

- Meet Orange County standards.
- Describe specific security requirements and establish table rules with the project team that implements the requirements especially for sensitive information or automated signatures. The software shall have no embedded passwords.
- Assist the project team with the implementation of all appropriate business rules.
- Work with the project team at Orange County's designated location during the project and especially during the first four to six weeks of full production. It is critical that day-to-day operations be reviewed very closely. The successful Proposer may suggest various ways to adjust system parameters for optimum performance.

Please provide:

1. The names of your proposed implementation team. Include a resume for each team member showing qualifications and experience, including the name and contact phone number for the last two sites worked.
2. Each individual (name and title) and the tasks your personnel will perform during implementation.
3. Explain the typical delivery lead-time from contract execution to (a) the delivery of the Application Documentation and (b) the onsite installation of the base Application Software.
4. The County will require all historical data to be converted to the new software application. Explain the process Data Conversion/Data Migration which shall include:
 - a. Data scrubbing: detect and eliminate errors on legacy data, add necessary delimiters.
 - b. Data conversion/migration: convert/migrate existing data to the proper format to be imported into the new system.
 - c. Data operability: make sure migrated data will be able to operate on new system.
 - d. Data convergence: compare files to identify and document any discrepancies between them.
5. A suggested implementation schedule for the proposed system (e.g., a time-phased Gantt chart). Include installation, planning, fit analysis, conversion, training, testing, interfaces, and system modifications noted in the functional requirements, critical milestones, and data conversion tasks.
6. The County's responsibilities and client manpower requirements for each implementation task.

7. The type of implementation support to be provided as part of the proposed implementation services. Include site preparation, system testing, user training, data conversion, parallel running, and any other implementation items.
8. A Software Specification/Requirements Document outline that will be used in the custom **modification** process. Also provide a description of your standard requirements definition/approval procedures used for custom work.
9. A Software Specification/Requirements Document outline that will be used in the custom **interface** process. Also provide a description of your standard requirements definition/approval procedures used for custom work.
10. Submit a document describing how the proposed technological solutions meet the business processes and best business practices for Orange County.

J. VENDOR SUPPLIED TRAINING

Based on the County's training requirements as detailed below in Items 1 through 4, proposers shall specifically describe the training courses, environment and materials they commit to providing the County with in this project. Include the extent of the on-site training included in your proposed implementation and a suggested schedule for user training.

Orange County expects that training will be in specific product training sessions. Training will use a phased approach for the three types of training required below.

At a minimum, a total of 15-17 Orange County staff shall be trained.

Functional training shall be supplied for up to 10 Orange County staff, and Technical and System Administration training will be required for 5 Information Systems and Services staff.

Specific product training should be adequate to prepare functional staff and Information Systems and Services staff to go live with the product with the support of the core team. The successful vendor should be prepared to allocate adequate time and resources for training to ensure a successful deployment given the expected transaction volumes.

Note: Onsite training of County staff shall be conducted Monday through Friday between the hours of 9:00 am and 4:00 pm. The County will provide a suitable training facility.

1. Three Types of Training Required
 - a. Technical Training (technical training plan approved by the project management team).
 - b. Systems Administration Training (Both Technical and Functional as required).
 - c. Product Functional Training (i.e., LIMS Administrator, LIMS Analyst, LIMS General Users, etc.).
2. The training must be comprehensive enough to ensure that the County's staff and systems personnel can effectively use and maintain the system, even in the event of future significant upgrades. Training shall include the following areas:
 - a. Overview of the system.
 - b. Technical System administration and Functional System Administration, operations, and maintenance systems programming.
 - c. Record inquiry, data entry, and similar routine operations.
 - d. Routine and ad hoc report generation.
 - e. Periodic report generation.
 - f. Interfacing with other systems and programs.
2. Training Materials and Environment
 - a. Training materials such as manuals, videos, and online training. The contractor shall provide the County with the rights to a soft copy of the training manual or presentation and to make an unlimited number of copies of the documentation for internal training.
 - b. Implementation of a training environment separate from production.
3. A list of available training courses. Provide the following details for each course:
 - a. Target Audience.
 - b. Course contents.
 - c. Prerequisites.
 - d. Instructional Medium (class room, self-study, computer tutorial, on-the-job instruction).
 - e. Duration.
 - f. Materials required other than manuals (e.g., audiovisual equipment).
 - g. List training facility requirements by course type. Include both for our own facility (computer lab/conference Room) and outside vendor facility - Specify location.

K. MAINTENANCE AND TECHNICAL SUPPORT

Please provide:

1. A description of what personnel and qualifications the County will need to support and operate the system.

Verification that the proposer will provide product corrections/patches, without charge, for any implementation/conversion errors including but not limited to programs, data, objects, etc. discovered after installation of the application. Will this support continue for the life of the system?
2. Verification that the proposer will maintain current product version through-out the implementation of the system so that when the County goes live with the product, the County's version will be current and in compliance with product's licensing and support requirements.
3. A description of how customer requested enhancements to the system are handled. Include any applicable pricing structure.
4. The date you anticipate the next update of your current release. How long do you support each version? How often do you provide new product version releases? Is this on a scheduled basis?
5. A description of the policy for updating and/or certifying the application when new releases of third party software become available (i.e., new releases of Oracle, Windows).
6. An explanation of how existing customers receive a new version or release of the product. Please provide a brief explanation of the upgrading process.
7. An explanation of procedures to retrofit all customizations made by the vendor for the County into new releases of the application.
8. Describe regression-testing procedures used to ensure previous changes are not impacted by the new release.
9. Verification that your company provides telephone support on an on-going basis. What are the times during the day that it is available? Is the cost of this support included in the Maintenance costs?
10. Your company's Web site capabilities. What customer service/support features are available at this site?
11. Verification that all point releases, service packs, and patches are made available to all customers.

12. Verification that all modifications performed for all customers are made available to all customers.
13. Verification of on-site support if there is a “production down” situation and the remote diagnostics prove inconclusive. Please provide your procedures for this situation.
14. Verification that the proposer shall supply scripts to support initial database creation, as well as, any repetitive database or OS functions.

L. TECHNICAL ENVIRONMENT REQUIREMENTS

Proposers shall include the software and hardware component specifications that are most effective to utilize the proposed system software. Proposer's solutions must comply with all existing Orange County ISS Computing Standards (included in this RFP), for both hardware and software. Information relating to the communications capacity of the proposed system must be provided by the vendor (e.g. how many concurrent users will generate what levels of communication traffic). The vendor must identify any additional network wiring, disk space, hardware or software required to implement the proposed solution.

1. Database Server

Based on the County's size and complexity, and the recommended hardware/software configuration for the server, provide the following:

Hardware Requirements:

- a. Processor type: Intel, RISC, Alpha, Other (specify).
- b. Processor/MHZ.
- c. RAM capacity needed for initial application execution.
- d. Hard Disk capacity needed for initial application programs/data.
- e. The detail of any other hardware requirements.

Software Requirements:

- a. The Server Operating System and minimum version required: AIX or Windows 2005/2008 Server.
- b. Network Protocols Supported: TCP/IP.
- c. Database Server products and minimum required versions (e.g. DB Replication, monitoring tool/s).
- d. Other software requirements.

2. Application Server:

Based on the County's size and complexity, and the recommended hardware/software configuration for the application server(s), provide the following:

Hardware Requirements:

- a. Processor type: Intel, RISC, Alpha, Other (specify).
- b. Processor/MHZ.
- c. Minimum performance requirements.
- d. RAM capacity needed for initial application execution.
- e. Hard Disk capacity needed for initial application programs/data.
- f. All clients and servers should connect to the network using Ethernet.
- g. The detail of any other hardware requirements.

Software Requirements:

- a. The Server Operating System and minimum version required: AIX or Windows 2005/2008 Server.
- b. Network Protocols Supported: TCP/IP.
- c. Other software requirements.

Network Operating System Requirements:

- a. Network Operating System and minimum version if required: AIX or Windows 2005/2008 Server. Network Protocols Supported: TCP/IP.
- b. Other Network requirements.

3. Web Server(s):

Based on the County's size and complexity, the recommended hardware/software configuration for the Web Server(s), provide the following:

Hardware Requirements:

- a. Processor type: Intel, RISC, Alpha, Other (specify).
- b. Processor/MHZ.
- c. RAM capacity needed for initial application execution.
- d. Hard Disk capacity needed for initial application programs/data.
- e. The detail of any other hardware requirements.

Network Operating System Requirements:

- a. Network Operating System and minimum version if required: AIX or Windows 2005/2008 Server.
- b. Network Protocols Supported: TCP/IP.
- c. Other Network requirements.

4. Client PCs/Workstations

Based on the County's size and complexity the recommended hardware/software configuration for Client workstations, provide the following:

Hardware Requirements:

- a. Processor type: Intel, Other.
- b. Processor/MHZ.
- c. RAM capacity needed for application execution.
- d. Hard Disk capacity needed for initial application programs.
- e. Other Hardware requirements.

Software Requirements:

- a. Operating System and minimum version. List all compatible (e.g., Windows XP, Windows 7).
- b. Network Protocols Supported: TCP/IP.
- c. The software required for the client workstation (e.g., Activex, run-time libraries, DLL's required, Oracle/SQL Server client version, license fees for the run-time environment).

Other Software Requirements:

- a. The middleware used between the Client and the Database server.
- b. Your adherence to SAA/CUA standards.
- c. Confirmation that your product supports distributed processing in a client/server environment.

Required Modifications to Client PC's:

- a. The changes required to the existing Client PC's control files (e.g., config.sys, autoexec.bat, win.ini). Provide examples if possible.
- b. A description of the Client PC installation (initial and new release) procedures.
- c. The list of required drivers and their memory requirements.
- d. Activex plug-ins required.

5. Other Hardware/Software Requirements:

Please provide:

- a. A description of the recommended back up and recovery procedures for all servers, including recommended hardware, configuration, software, and frequency.
- b. A list of all platforms, operating systems, RDBMS, and other appropriate hardware/software which you certify your application to run on.
- c. Verification that your product uses Active Server Pages or JAVA Server Pages with 3rd party JAVA Servlets. If your product uses 3rd party JAVA Servlets, do you support the JAVA Servlet and Java Engine?
- d. Information relating to the communications capacity of the proposed system (e.g. how many concurrent users will generate what levels of communication traffic).

- e. Identify any additional network wiring, disk space, hardware or software required to implement the proposed solution.

M. PERFORMANCE AND AVAILABILITY

Please provide:

1. A description of your product's typical on-line transaction response times. Assume staff is both physically located in county buildings and also working through VPN are accessing the system.
2. An explanation of full backup procedures for OS & Database levels.
3. The successful Proposer shall describe its DISASTER RECOVERY plans for the proposed system. These methods should be able to preserve the integrity of applications, and data, and provide immediate system and data recovery with minimal downtime according to industry standards. At a minimum the system should include:
 - a. Software crash tolerance: Server and client software should maintain its integrity in case of power failures and abrupt shutdowns.
 - b. Restart/Recovery: The system must be capable of restart and recovery after system failure with no loss of data or software components.
 - c. Integrity checking feature: Must provide the capability to limit the types of operations (e.g. read, write, delete, data dictionary modification) that can be performed by individual users on given data or program files.
 - d. Hardware redundancy: Implementing backup drives and Raid configurations for database, application, and network servers.

N. APPLICATION SOFTWARE CHARACTERISTICS AND FEATURES

Please provide:

1. What programming language(s) is your product written in?
2. What development tools are required to support configuration and/or modifications to the system?
3. Is your product based on a 2 or 3-tiered or N-tiered architecture? Describe in detail.
4. Is your product a 32-bit or 64-bit application?
5. A description of how RDBMS security is used as well as security provided with the application.

6. A description of how data integrity is enforced (e.g., application code and/or RDBMS functions like RI (Referential Integrity) rules, stored procedures or triggers).
7. A description of how the application takes advantage of the native RDBMS transaction logging, commits, rollbacks, and recovery capabilities.
8. A list of any additional responsibilities for the WAN/LAN Administrator and Systems Administrators and/or DBA's, which are required to support this application (e.g., security).
9. Does your product support:
 - a. XML?
 - b. Web Services?
10. Can your product provide standard interfaces (API's) to other information systems? Please explain options available.
11. Does your product provide wireless interfaces (either directly or using a third party solution) for hand-held devices? Ie, for sample logging and tracking.

O. DOCUMENTATION

1. Is documentation provided in hard copy and electronic format for each of the following documents:
 - a. Major system overviews for all components?
 - b. System flowcharts and/or Data Flow Diagrams?
 - c. Entity Relationship Diagrams?
 - d. Work Flow Diagrams?
 - e. Data Dictionary?
 - f. Program documentation?
 - g. Installation and configuration procedure manuals for servers & workstations including the setting of the server environment. (These define ports to be defined, space limitations)?
 - h. Manuals describing the use of the application software (User's Manual)?
 - i. Training materials (two complete sets, including one reproduction-ready copy)?
 - j. Screen documentation with data entry explanations?

- k. Samples of all standard reports with narrative descriptions of all fields displayed on the report, input parameters and an explanation of how to execute each report?
 - l. System Administration and Security Manuals?
 - m. Procedures for updating documentation for new releases?
 - n. Standardized user exits/plugin-ins for custom enhancements?
 - o. Provide detailed installation documentation for the purpose of restoring the system in case of a disaster.
2. Is all updated system documentation available concurrent with the release of new software updates?
 3. Is all the documentation available in Microsoft Word or Adobe Acrobat? Will the County be authorized to make or print additional copies of the documentation for their own use without incurring any additional fees?
 4. Will Orange County be provided all software CD's and license keys for Disaster Recovery Purposes?
 5. Will Orange County be required to purchase additional licensing for Disaster Recovery Testing?

P. GENERAL QUESTIONS

1. With our current product, data archiving is required. While this increases performance, it affects our ability to utilize archived data in trending and analysis. Please explain your product's archiving requirements, and options available to mitigate this issue with your product.
2. With our current product, analytical batch creation is done manually as an incremental step, when the laboratory technician is satisfied that enough work exists to run a method batch. The QC tests required for the method batch are placed in a random order by the LIMS product and you cannot easily change their number, selection, or order placement. Sometimes it is necessary to move the QC tests order, or omit, or add tests to the batch run. This is currently an arduous task. Please explain when the analytical batches are created, how they are created, and how your product supports the ad hoc movement, addition, or omission of QC tests for a method, and explain how your product manages templates for QC tests to be included per method batch.
3. When a QC test in a batch fails, explain how your product resolves the failure, and include how the batch is treated; what type of status indicators and or qualifier codes are placed on the batch and data values? How these resolution measures are tracked, reviewed, and approved for auditing before submission of qualified data?

4. If your product can capture continuous data from remote sensing devices, explain how this data would be stored, when the majority of the discrete data in the system is associated by job and laboratory number.
5. Is your product licensed by number of concurrent users? (Today, our product is licensed by named user, so we have to manage user access manually by activating/de-activating users so they can obtain access to the application. This is very cumbersome). Please explain.

SECTION 4

EPD LABORATORY INFORMATION SYSTEM

Proposers shall submit their responses for this Section on CD-ROM (Excel version)

Scoring Instructions: Answer each question according to the following legend:

A – Requirement is currently met in existing version of product that is in production use in a similar environment and can be demonstrated

B- Will be available for production use prior to unit testing at Orange County or is available using customization features currently available in the product and will be incorporated in baseline product as no additional charge

C – Requirement not currently available, but can be provided as an enhancement or modification to the baseline product or by custom development and integration with product

D – Requirement not included in this proposal

REF – Provide an explanation for each requirement that has restrictions, limitations or requires clarification.

Mark REF column and provide an explanation of each enhancement or modification by referencing the item number and describing in detail on a separate page.

Definition of County's Priorities as described in Evaluation section of RFP:

3 = High Impact 2= Medium Impact 1= Low Impact

Requirement Description

PLACE AN "X" IN THE APPROPRIATE BOX

Laboratory Information System Functionality

Ref #	Functional Requirement	Priority	A	B	C	D	REF
	1. General Functionality						
1.1	Does your product support sample tracking with pre-login, login, and receiving?	3					
1.2	Does your product support analytical batching of Laboratory samples?	3					
1.3	Does your product support QA/QC for all laboratory analyses?	3					

1.4	Does your product support electronic data transfer for outsourced testing?	3					
1.5	Does your product support chemical inventory and laboratory supplies tracking?	2					
1.6	Does your product support instrument calibration and standards scheduling?	2					
1.7	Does your product allow authorizations and passwords to be administered according to a pre-defined client profile or user-role that determines which tables, screens, and processes, a person is permitted to access?	3					
1.8	Does your product have the ability to handle mass data changes for common data items?	3					
1.9	Does your product include a query tool in its baseline application? If so, which one?	3					
1.10	If not, does your product support a third-party query tool such as, Crystal Reports?	3					
	2. Lab Operations						
	Pre-Login: The structure of our business model requires the product to support an unscheduled Pre-login process.						
2.1	Does your product support a Pre-Login process without requiring the use of a scheduler?	3					
2.2	Does your product generate unique job order numbers according to a user-defined sequence?	3					
2.3	Does your product generate unique laboratory numbers according to a user-defined sequence?	3					
2.4	Does your product generate unique field-id numbers according to a user-defined sequence?	1					
2.5	Does your product have a scheduler to pre-login jobs?	1					
	Business design model: It is critical for the job number and laboratory number to reflect a multiple sampling team program/client business design.						
2.6	Can your laboratory number representation be configured to reflect a single site sampling event?	3					
2.7	Can your laboratory number representation be configured as a multi-digit extension of the parent job number?	3					
2.8	Can your product be configured so the laboratory number is the key field of reference in the data storage?	3					

2.9	Can your client representation be configured to resemble a program type?	3					
2.10	Can your clients (Programs) be pre-assigned sites based on lookup table attributes?	3					
2.11	Does your product allow predefined client types to lookup site information from an external process? Explain path definition/data exchange.	3					
2.12	Do your clients (Programs) have pre-defined test batteries?	3					
2.13	Does your product allow user to pre-define which test parameters are outsourced for a client?	3					
2.14	Does your product allow for the situational addition or omission of tests for a single job in an Ad hoc fashion?	3					
2.15	Does your product support automated preparation of user designed chain of custodies and labels (Exhibit Q)?	3					
2.16	Does your product prepare and print user designed chain of custodies?	3					
2.17	Does your product feature multiple types of chain of custody for different client/programs?	3					
2.18	Does your product feature an Ad hoc Chain of custody designer?	2					
2.19	Does your product feature an electronic form of Chain of custody?	2					
2.20	Does your product support electronic signatures in said form of chain of custody?	2					
2.21	Can the product support access to a lookup table containing hyperlinks to pdfs or an electronic version of the chain of custody?	2					
2.22	Does your product print user designed labels for each site (Corresponding to Laboratory Number)?	3					
2.23	Does your product print user designed labels for each container (Subset of Tests)?	3					
2.24	Does your product track containers?	3					
2.25	Does your product print bar codes?	1					
2.26	Does your product track container lot numbers?	2					
	3. Receiving/Ad Hoc Login						
	The product must allow for reception of samples received from other entities and population of field readings and ancillary field data from sites visited by our sampling teams that day.						

3.1	Does your product support Ad Hoc login for reception of unanticipated field work samples?	3					
3.2	Does the Ad Hoc login function allow for the situational addition or omission of tests for a single site/job?	3					
3.3	Does the Ad Hoc login function support free-form entry in the drop down menu selection (Unrestricted combo box)?	3					
3.4	Does the Ad Hoc login function support assignment of pre-determined test batteries by client type received?	3					
3.5	Does the Receiving function use a configurable Electronic Data Deliverables to read from a file created by field sondes to auto-populate result fields?	3					
3.6	Does the Receiving function use a configurable Electronic Data Deliverables to read directly from YSI field sonde and Hydrolab field sonde?	1					
3.7	Does the Receiving function have pop-up forms to manually enter ancillary field data from the COC at receiving?	3					
3.8	Does the Receiving function use a configurable Electronic Data Deliverables to read data directly from electronic COC?	2					
	4. Laboratory						
	The product must allow the laboratory technician to pickup existing jobs from pre-login, receiving, or ad hoc login without re-entering information. The laboratory function must include all aspects of results entry of a normal batching run complete with QA/QC tests, and qualifier codes for methods run in the laboratory.						
4.1	Can your product allow users to pickup existing jobs for batching without re-entering client/job information?	3					
4.2	Does your product permit on demand batch creation?	2					
4.3	Does your product feature random placement of QA/QC tests within a batch?	2					
4.4	Can the product follow a user designed method template for placement of QA/QC tests within a batch?	3					
4.5	Does your product allow user to add, delete, and move QA/QC tests within a batch, in an ad hoc fashion?	2					
4.6	Does your product feature two levels of Analyst Review prior to completion of batch processing?	3					

4.7	Does your product feature automatic attachment of qualifier codes for result values that fall in respective ranges?	3					
4.8	Does your product allow user defined qualifier codes to be accessed through a lookup table (Exhibit S)?	2					
4.9	Does your product allow authorized user to modify logic applied to attachment of qualifier codes?	2					
4.10	Does your product permit an additional comment field for qualifier codes?	2					
4.11	Does your product allow for management of case-narratives? Explain procedure?	2					
4.12	Can your product allow for access to a lookup table containing hyperlinks to pertinent case narratives or critical associated data files?	2					
4.13	Does your product print the ordered batch schedule for the technician?	2					
4.14	Can your product print batch schedules using user designed templates?	2					
4.15	Can your product export batch schedules to a PDA without restriction to operating system?	2					
	5. Laboratory Precision and QA resolution						
	The product must be able to calculate result precision based on different method types and be able to flag user when range limits are exceeded in a batch for a particular run.						
5.1	Does your product monitor Relative Percent Difference (RPD) precision warning and limit levels?	3					
5.2	Does your product feature multiple precision algorithms for different types of method tests?	3					
5.3	For duplicates of standard analytical methods (Difference over the mean)?	3					
5.4	For duplicates of quantitative methods (Range of Logarithmic differences)?	3					
5.5	For percent recovery of Laboratory fortified blanks?	3					
5.6	For percent recovery of Surrogates?	3					
5.7	For percent recovery of Laboratory matrix spike?	3					
5.8	Does your product provide control limits for sample accuracy (Percent Recovery)?	3					

5.9	Does your product give the user the ability to specify the number of samples to include in the rolling precision calculation per parameter class? (15 vs. 20)?	3					
5.10	Can your product monitor acceptable ranges for state regulatory limits?	2					
5.11	Can your product monitor acceptable ranges against historical limits?	2					
5.12	For tests that do not have an instrument interface, can your product populate fields from a PDA interface without restriction to operating system?	2					
5.13	For tests that do have an instrument interface, can your product auto populate fields from a text file generated by the instrument?	3					
5.14	Can your product auto populate fields directly by the instrument interface?	1					
5.15	Can your product calculate results based on dilutions? (Raw numbers and Calculated results)?	3					
5.16	Can your product calculate results with "standards drift compensation"?	2					
5.17	Can your product calculate results with an instrument drift compensation?	2					
5.18	Does your product track calibration standards information?	2					
5.19	Does your product warn the user when they are close to expiration of standard?	2					
5.20	Does your product alert the user <u>when</u> they are at expiration of a standard?	2					
5.21	Can your product alert user at the start of the batch if the standard will expire before the batch is complete?	2					
5.22	Does your product provide immediate warnings when a QC test is out of range?	3					
5.23	Can your product track chemical inventory quantities <u>automatically</u> each time a laboratory test is analyzed where consumable standards or laboratory supplies are used?	2					
5.24	Can your product allow manual adjustments to inventories when measures of reagents or supplies are used on an ad hoc basis?	2					

	6. Data Management						
	Re-capturing Outsourced Data: The product must be able to easily capture and post test results outsourced to other laboratories, and have a resolution method that allows user to provide edits/modifications to help link up unmatched data caused by external laboratory's transcription errors.						
6.1	Does your product provide user configurable Electronic Data Deliverables to auto post returning outsourced data test results?	3					
6.2	Does your product automatically match outsourced data to logged jobs?	3					
6.3	Does your product provide a data capture routine for unmatched data? (Exclusion file?)	3					
6.4	Does your product allow user to provide edits to unmatched data, in order to match data?	3					
6.5	Does your product allow for migration of historical peer reviewed data into the database, bypassing login and QA processes?	3					
6.6	Upon batch import of historical data, can your product automatically assign lab numbers to data consistent with a user-defined sequence?	3					
6.7	Does your product allow Electronic Data Deliverables tool be configured to check lookup tables to place flags on data that is out of range?	3					
	Automated remote sensing and continuous data sources from devices such as deployed auto-samplers and near-realtime deployed multiparameter field loggers are utilized.						
6.8	Can your product capture continuous data from remote sensing devices?	1					
	Exporting Data: It is imperative for the product be able to export data into numerous formats as required by the user. EDD's are typically designed to read from the database and transform the data, without changing the database, into a proprietary format expected by the vendor receiving the data.						
6.9	Does your product have a user configurable export Electronic Data Deliverables to industry standard formats? (.txt, .csv,) etc.	3					

6.10	Can your product's Export Electronic Data Deliverables check an external lookup table for crosswalk values, such as custom field names and unit definitions of vendor to which we are exporting?	3					
6.11	Can your product's Export Electronic Data Deliverables check an external lookup table for range validation for result values of parameters?	3					
6.12	Does your product allow the user to specify a subset of data to export, selected by any data parameter? eg. (Time, sites, program/client, etc.)	3					
6.13	Can that subset of data be generated by a user-designed GUI?	1					
6.14	Can your product generate an export exclusion file for records found in the export query, but not meeting business rules for export purpose? e.g. (AAL and SP project types do not go to STORET)	3					
6.15	Can your product support multiple export Electronic Data Deliverables?	3					
6.16	Can your product track when a record was exported?	3					
	7. Auditing/Edits						
7.1	Does your product allow an authorized auditor to make changes to the data?	3					
7.2	Does your product contain an audit trail that includes the original data values prior to any edit that is authorized by an auditor?	2					
7.3	Can your product create an audit trail for QA Officer to browse, select, and query?	3					
7.4	Does your product provide a way to delete job numbers?	3					
7.5	Does your product provide a way to track deleted analytical batches?	2					
7.6	Also, can your product feature auditing for a large recordset (ie: generate the results set) as an offline batch process? (i.e., Identifying the global changes needed in state standards, method numbers, migration of standard units of a parameter, etc).	2					
7.7	Using the results set above can your product provide a method to <u>automate</u> the batch backup, update, and posting of audit trails of affected records in the database?	2					

7.8	Does your product allow for SQL Ad Hoc queries to be executed across all tables?	3					
	8. Data Query – Information Retrieval						
	The product must allow users to access data in recordset form via standard SQL queries generated by user's input selection, on user-configurable query forms:						
8.1	Does your product allow users to access data in a query table output? (Exhibit O).	3					
8.2	Does your product allow users to access data in a query table output with access to event controlled application code modules with SQL engine capacity?	3					
8.3	Does your product permit user-designed complex calculations of indices to appear in query results?	3					
8.4	Does your product provide export of data query results to Excel?	3					
8.5	Does your product provide export to parser delimited text file for recordset sizes exceeding Excel's maximum record capability?	3					
8.6	Does your product warn the user when number of records to export exceeds export format capacity?	1					
8.7	Does your product feature a user-configurable data query form? (Exhibit T)?	2					
8.8	Does your product feature command line SQL query?	2					
8.9	Does your product feature or provide access to a SQL query builder tool to generate SQL queries for approved user groups?	2					
	The product must allow for the preservation of ancillary ordinal state data, to control the output of reports, queries, exports and datasets. Ancillary data is useful to mark or flag records for inspection when tested against range limits for parameter values:						
8.10	Does your product allow for direct population and changes of state-data fields within a record structure for status logic? (i.e., date exported, needs edits, checked out, in batch edit).	2					
8.11	Does your product allow for flagging/marking of data based on tests of key fields?	2					
8.12	Does your product allow for flagging/marking of data based on User designed tests?	2					
8.13	Does your product allow for flagging/marking of data based on key fields in <u>external</u> lookup tables (Exhibit M)?	3					

	9. Web & Security						
9.1	Is your product WEB enabled?	2					
9.2	If so, is the application software available with a Browser based front-end?	3					
9.3	If your product supports user access via a browser, does your product require a browser with a Secure Socket Layer and 128bit encryption?	3					
9.4	If so, is your product compatible with browser version IE 7?	3					
9.5	Does your product utilize Internet Information Server (IIS) software?	1					
9.6	If so, does your product ensure that IIS is not installed on the database server? Orange County does not allow IIS to reside on the same server that houses the database.	3					
9.7	Does your product use Active Server Pages?	1					
9.8	Does your product have the ability to establish security for users by a user group?	2					
9.9	Does your product allow System Administrators to establish security for user-defined user groups such as Guest, Technician, Microbiologist, Reviewer, Auditor, and Admin?	2					
	Does your product have the ability to establish security at the following levels:						
9.10	At the menu or selection bar item level?	3					
9.11	At an individual screen level?	3					
9.12	At the function level?	3					
9.13	At the field level?	3					
9.14	At the record level?	3					
9.15	At the system level?	3					
9.16	At the database level?	3					
9.17	Can your product restrict viewing rights at the field level within a specified screen?	3					
9.18	Does your product allow a single user to be assigned to multiple user groups at the same time?	2					
9.19	Does your product have application software security in its baseline product as opposed to utilizing strictly operating system and database security?	3					
9.20	Does your product allow the system administrator to enforce a unique userid and password per user?	3					1
9.21	Does your product enable the County to define the user ID and password structure?	2					

9.22	Does your product utilize password encryption for secured log on?	3					
9.23	Does your product have the ability to control the number of unsuccessful attempts into the system?	2					
9.24	Does your product track through an audit trail all activity performed in the system?	3					
9.25	Can your product provide a daily audit trail report which lists unsuccessful attempts at log-in security?	2					
9.26	Does your product provide audit reporting which shows all changes made to data including a before and after image?	2					
9.27	Does your product provide an audit trail (date/time stamp and user-id) of all transactions which have occurred within the application?	2					
9.28	If your product allows the user to create screens, can security on user-defined screens be attached to all the delivered security options?	3					
	10. System To System Interfaces						
10.1	Does your product support interfaces with other systems?	3					
10.2	Does your product support or interface to other Oracle based or Microsoft SQL Server based systems using standard application programming interfaces (API)?	3					
10.3	Does your product support an application programming interface (API) or user exits that will allow the user to add modules or subroutines without modifying the system's source code?	3					
10.4	More specifically, can your product provide user exit points in the software to an API for custom iterative calculations of indices?	3					
10.5	Does your product ensure that existing API functionality is migrated into new releases?	3					
10.6	Does your product support interfaces to other databases through standard protocols, such as ODBC?	3					
10.7	Does your product provide for user configuration of screens and tables without the need for source code changes?	2					
	If so, does your product support the following:						
10.8	Views?	2					
10.9	Stored Procedures?	2					
10.10	Database Triggers?	2					
10.11	Oracle Replication?	2					
10.12	Predefined integration tables (staging tables) that can be populated by another system?	2					

10.13	Does your product provide development tools to enhance the application?	2					
10.14	Will this development tool be provided to the County as part of the baseline product?	2					
10.15	Does your product provide an application tool which supports the transfer of data from a production environment to another environment?	2					
10.16	Does your product have the ability to utilize multiple instances of the database without the need to change the application code?	2					
10.17	Does your product's application code communicate directly with the database using SQL without any middleware product?	2					
10.18	Does your product have tools to unload and re-load tables?	2					
10.19	Does your product provide scripting tools (ie, if table space is corrupted on database, will an automatic rebuild be initiated)?	2					
10.20	Does your product allow a user-defined field to be added to the database?	2					
10.21	Does your product provide test/seed data with the initial installation?	2					
10.22	Does your product support user configuration of screens?	2					
10.23	Does your product support user configurable data export tools?	3					
10.24	Does your product support the addition of user defined tables to the application?	2					
10.25	Does your product provide on-line update of all user-definable tables?	2					
10.26	Does your product have application logs that are utilized for new releases to identify the location of new and/or changed program code?	2					
10.27	Does your product have system logs that are utilized for new releases to identify the location of new and/or changed database structures?	2					
10.28	If the system logs are generated, does your product provide documentation with log codes and definitions?	2					
	11. Archiving- Purging - Retrieval						
11.1	Does your product have the ability to maintain a user-defined number of months of history online for the entire database?	3					
11.2	Does your product have the ability to archive records to an off-line media at a specified point in time?	2					

11.3	Does your product provide for users to be able to identify tables that are not to be archived?	2					
11.4	Does your product provide for users to be able to identify record types that are not to be archived within a table?	2					
11.5	Does your product allow data to be purged from the database?	2					
11.6	Does your product allow for the retrieval of archived data, if necessary?	2					
11.7	Does your product allow the user to define the purging parameters?	2					
11.8	Does your product allow the user to define the archiving parameters?	2					
	12. Multiple Environments						
12.1	Does your product support redundant server load balancing?	2					
12.2	Does your product support disk drive mirroring?	2					
12.3	Does your product support parallel server fail-over?	2					
12.4	Does your product support database replication?	2					
12.5	Is your system hardware and operating system independent, thus compatible with most platforms?	2					
12.6	Does a record locking feature prevent the loss of data when two or more users are updating the same record?	3					
12.7	Does your product utilize Active Directory login authentication for automatic log-in to proposed application?	2					
12.8	Does your product allow the customer to utilize the same license for both production and test installations? For example: We purchase licenses for production, but do not have to purchase additional licensing to bring up a test environment on another server or in another environment.	3					
12.9	Does your product provide for different instances of the application for implementation, testing, training and production?	3					
12.10	Does your product provide application tools to support the transfer of data from a production environment to another environment?	3					
12.11	Does your product have the ability to utilize multiple instances of the database without the need to change the application code?	3					

	13. System and Administration						
13.1	Does your product have the ability to build and enforce user-defined work steps such as scheduling of processes for various system functions?	3					
13.2	Does your product support the 3 latest versions of Microsoft Windows?	3					
	Does your product have the ability to generate reports:						
13.3	Of all file updates which are made to the database?	2					
13.4	Of all file updates made by a specified work group?	2					
13.5	Of all file updates made by a specific individual?	2					
13.6	Of all file updates sorted by transaction type?	2					
	Does your product have the ability to view online:						
13.7	All file updates which are made to the database?	2					
13.8	All file updates made by a specified work group?	2					
13.9	All file updates made by a specific individual?	2					
13.10	All file updates sorted by transaction type?	2					
	14. Reporting Tools						
14.1	Does your product support standard query tools, such as Crystal Reports?	3					
	Does your product enable reports to be previewed, printed, saved in the following formats:						
14.2	To a file?	3					
14.3	To Excel?	3					
14.4	To a PDF?	3					
14.5	Does your product support trend analysis (linear regression) of result values for a select parameter of a given site?	3					
14.6	Does your product support trend analysis (linear regression) of result values for a select parameter over entire dataset, both current and archived?	3					
14.7	Does your product support trend analysis (linear regression) of result values for a select parameter of <u>multiple</u> linear regressions of different time periods and lengths?	3					
14.8	In 14.7, On the same graph per site?	3					
14.9	Does your product support multiple user-designed Certificate of Analysis reports (Exhibit P)?	3					
14.10	Does your product allow access to non-vendor proprietary tables for user report design?	3					
14.11	Does your product support Electronic Signatures in the reports?	2					

14.12	Does your product contain an Electronic Signature manager? Explain.	1					
14.13	Does your product support unique report number generation assigned to each report?	2					
14.14	Can your product's reporting tool report and graph the results and compensation curves for Instrument/Calibration and/or Standards drift?	2					
14.15	Can your product's reporting tool report and graph the results and compensation curves for Fouling/Environmental drift?	2					
14.16	Does your product perform cost analysis reporting?	1					
14.17	Can your product report to auditors and lab managers when records are modified?	2					
14.18	Can your product report/notify auditors and lab managers when certain limits are reached?	2					
	Can your product report/notify to auditors and lab managers audit trail information to include:						
14.19	Reasons for the edits?	2					
14.20	Reporting?	2					
14.21	Standards drift?	2					
14.22	User changes?	2					
14.23	Job status?	2					
14.24	Can your product report on user access to records in regards to Additions, Deletions, and Edits?	2					
	Can your product <u>automatically</u> generate a report(s) for a particular user-defined event, such as:						
14.25	Temporal event; (Day of week or hour)?	2					
14.26	Threshold reached; (Range limits)?	2					
14.27	Does the product track job status?	2					
14.28	Batch status?	2					
14.29	Can your product provide an industry standard application code environment (API interface) for complex iterative calculations to be performed in the report?	2					

SECTION 5

Please Note: DO NOT SUBMIT THIS SECTION WITH YOUR INITIAL RFP RESPONSE. COST PROPOSAL SHALL ONLY BE ACCEPTED FROM PROPOSERS WHO ADVANCE TO PHASE 3 OF THE EVALUATION PROCESS.

- **The Cost Proposal shall be due seven (7) business days after the selected proposers have been notified by the County.**
- **Each proposer shall submit a draft Implementation/Project Plan and a draft Statement of Work. Failure to do so may result in the proposer being deemed non-responsive.**

The cost component of this proposal must be a fixed price for equipment, software, training, management overhead, and start-up costs. Orange County, at its sole discretion, may elect to add additional requirements or remove requested requirements prior to finalizing costs during contract negotiations. The proposer must complete the cost sheets as provided herein. **All costs or hourly rates quoted herein shall be inclusive of all travel and living expenses for the entire lifetime of the contract. All costs for equipment must indicate unit costs; all costs for services must indicate hourly rates. Fees proposed shall be F.O.B. Destination and include all shipping charges.**

COST PROPOSAL

A. Application Software

Indicate below the cost of the products, including application software and 3rd party software, included as part of this proposal.

1. Software Application, Initial Purchase Costs

List all one-time software licenses for servers, workstations, etc. The estimated number of desktop devices is 12.

_____	\$ _____
_____	\$ _____
_____	\$ _____
SUBTOTAL \$ _____	

B. Proposer Required Hardware

List any hardware the County would be required to purchase from your firm based on its functional requirements in order to make your software application run properly.

_____	\$ _____
_____	\$ _____
SUBTOTAL \$ _____	

C. Other Required Hardware

List any other hardware the County would be required to purchase based on its functional requirements in order to make your software application run properly. The County reserves the right to purchase this equipment from alternate sources.

_____	\$ _____
_____	\$ _____
_____	\$ _____
SUBTOTAL \$ _____	

D. Implementation Services Cost Summary

For each service listed below, provide an hourly rate, number of hours required and a fixed total cost. If not applicable, please mark as such. If additional service items are required, please add.

- 1) Onsite Product Software Installation/Certification

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 2) Business Process/Gap Analysis

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 3) Table Setup/System Configuration

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 4) Requirements detailing for custom components (if any)

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 5) Design for custom components (if any)

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 6) Implementation of custom components (if any)

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 7) Report/Query Development

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 8) Testing/Implementation/Deployment Support

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 9) Training (onsite)

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

- 10) Post-Implementation Support (beyond scope of annual maintenance/support fees)

Hourly Rate: \$_____ Hours Required: _____ Total: \$_____

IMPLEMENTATION SUPPORT SUBTOTAL: \$_____

E. Annual Maintenance and Support Costs

All maintenance/support costs should be quoted on a 24X7 basis.

	Year One Costs	Year Two Costs*	Year Three Costs*
Software Maintenance/Fixes			
Telephone Hotline Support (if provided and priced separately)			

* Costs for years two (2) and three (3) shall be actual amounts, which will be charged or a maximum percentage increase over the previous year.

On-Site Support: \$_____ per hour *

* Rate shall remain firm for the period of three years following contract execution.

F. Documentation

Please provide the following documentation indicated below as a part of the proposal package. Note any additional costs.

<u>Type of Documentation</u>	<u>Included Yes</u>	<u>Comments</u>
1. Operator Guide	_____	_____
2. User's Manual	_____	_____
3. Installation Manual	_____	_____
4. Recover and Restart Procedures	_____	_____
5. Other	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

G. Interface Requirements

Provide a detailed description of all required interfaces with County systems necessary to make your software application work properly and meet the County's functional requirements. Include itemized costs to the County such as third-party software, any necessary hardware, and labor to arrive at a total fixed cost.

H. Customization/Modifications

Provide a detailed description of all required software customizations/modifications necessary to make your software application work properly and meet the County's functional requirements. Specifically address each separate customization project to include cost to the County for each to arrive at a total fixed cost.

I. Total System Cost Summary

Summarize all costs required to go live with the system as proposed including but not limited to the following:

<u>DESCRIPTION</u>	<u>TOTAL FIXED COST</u>
A. Software Application(s), Initial Purchase Costs	\$ _____
B. Proposer Provided Hardware	\$ _____
C. Other Required Hardware	\$ _____
D. Implementation Costs	\$ _____
E. Annual Software Support and Maintenance	\$ _____
F. Documentation	\$ _____
G. Interface Requirements	\$ _____
H. Customization Modifications	\$ _____
TOTAL COST PROPOSAL:	\$ _____

RETAINAGE CLAUSE - The County shall retain twenty percent (20%) of the amount of each properly submitted and approved invoice and reserves the right to maintain the same level of retainage until final acceptance of the system occurs. At the County's discretion, the County may reduce the level of retainage to five percent (5%) in later stages of the project or eliminate it all together.

EMERGENCY CONTACT

Emergency Contact Person: _____

Telephone Number: _____ **Cell Phone Number:** _____

Residence Telephone Number: _____

ACKNOWLEDGEMENT OF ADDENDA

The bidder/proposer shall acknowledge receipt of any addenda issued to the solicitation by completing the blocks below or by completion of the applicable information on the addendum and returning it not later than the date and time for receipt of the bid or proposal. Failure to acknowledge an addendum that has a material impact on the solicitation may negatively impact the responsiveness of your bid or proposal. Material impacts include but are not limited to changes to specifications/scope of work, delivery time, performance period, quantities, bonds, letters of credit, insurance, qualifications, etc.

Addendum No._____, Date_____ Addendum No._____, Date_____

Addendum No._____, Date_____ Addendum No._____, Date_____

RFP Y11-621-GJ, EDP LABORATORY INFORMATION SYSTEM SOFTWARE AND IMPLEMENTATION

EMPLOYMENT DATA, SCHEDULE OF MINORITIES AND WOMEN (Rev. 1/99)

Please provide the following data pertaining to your workforce. If you have an Orange County workforce, it should be shown. If you do not have an Orange County workforce, total permanent workforce should be shown. If this is a Joint Venture, employment data shall be furnished for each firm composing the joint venture. It is mandatory that you provide workforce data. Failure to provide this form with your bid/proposals may be cause for rejection of your bid/proposal.

JOB CATEGORIES	MAJORITY		MINORITY MALES				MINORITY FEMALES				TOTAL
	White Male	White Female	Black	Hispanic	American Indian	Asian American	Black	Hispanic	American Indian	Asian American	
Officials, Mgrs. Supervisors											
Professionals											
Technicians											
Sales Workers											
Office and Clerical											
Craftsman (Skilled)											
Operatives (Semi-Skilled)											
Laborers (Unskilled)											
Service Workers											
Apprentices											
Interns/Co-Ops											
Wages to Work Employees											
TOTAL											
Changes Since Last Report											

The above reflects (Check One): ☐ Orange County Workforce ☐ Total Permanent Workforce (Outside Orange County)

For Construction Projects Only: Do you intend to hire new employees for the project? ☐ Yes ☐ No If yes, how many approximately?

Name of Firm Period of Report No. of Years in Business in Orange County

Form Completed by

Name/Title (Printed or Typed) Signature

Form Approved by

Name/Title (Printed or Typed) Signature

SCHEDULE OF SUB-CONTRACTING - M/WBE PARTICIPATION FORM

RFP Y11-621-GJ, EDP LABORATORY INFORMATION SYSTEM SOFTWARE AND IMPLEMENTATION

As specified in Section 5 of this document, proposers must list all sub-contractors to be used regardless of racial or gender grouping. Include all names, addresses, telephone numbers, type of work subcontracted and percentage of participation and M/WBE designation or majority (non-M/WBE owned company.) Designations are: MBE-BM (Black Male); M/WBE-BF (Black Female); MBE-HM (Hispanic Male); M/WBE-HF (Hispanic Female); MBE-NAM (Native American Male); M/WBE-NAF (Native American Female); MBE-AM (Asian Male); M/WBE-AF (Asian Female); and WBE-WF (White Female). Provide all information requested. Use additional sheets if necessary.

Will your firm perform all the work with your own forces? Yes ____ No ____ (If no complete the form below)

Name of Sub-Contractor	Address	Type of Work to be Performed	Percent of Contract Amount to be Sub-contracted	M/WBE Designation Or Majority Owner

NOTE: An authorized signature on this form constitutes a binding commitment of sub-contract the percentage and type of work listed above.

Company Name: _____

Signature: _____

Date: _____

CONFLICT/NON-CONFLICT OF INTEREST STATEMENT

CHECK ONE

[] To the best of our knowledge, the undersigned firm has no potential conflict of interest due to any other clients, contracts, or property interest for this project.

OR

[] The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest due to other clients, contracts, or property interest for this project.

LITIGATION STATEMENT

CHECK ONE

[] The undersigned firm has had no litigation and/or judgments entered against it by any local, state or federal entity and has had no litigation and/or judgments entered against such entities during the past ten (10) years.

[] The undersigned firm, **BY ATTACHMENT TO THIS FORM**, submits a summary and disposition of individual cases of litigation and/or judgments entered by or against any local, state or federal entity, by any state or federal court, during the past ten (10) years.

COMPANY NAME

AUTHORIZED SIGNATURE

NAME (PRINT OR TYPE)

TITLE

Failure to check the appropriate blocks above may result in disqualification of your proposal. Likewise, failure to provide documentation of a possible conflict of interest, or a summary of past litigation and/or judgments, may result in disqualification of your proposal.

AUTHORIZED SIGNATORIES/NEGOTIATORS AND PROPOSER'S INFORMATION

The proposer shall complete and submit the following information with their proposal:

The proposer represents that the following persons are authorized to sign and/or negotiate contracts and related documents to which the proposer will be duly bound:

<u>Name</u>	<u>Title</u>	<u>Telephone Number</u>
-------------	--------------	-------------------------

_____	_____	_____
_____	_____	_____
_____	_____	_____

(Signature)

(Title)

(Name of Business)

(Business Telephone)

(Business Mailing Address City State Zip)

Type of Organization

_____ Sole Proprietorship _____ Partnership

_____ Joint Venture _____ Corporation

State of Incorporation: _____

Federal I.D. or Social Security number is _____

A copy of the proposer's current W9 form shall be included with their submittal.

Contact Person: _____

Contract Person's E-mail Address: _____

Contact Person's Telephone Number: _____

DRUG-FREE WORKPLACE FORM

The undersigned vendor, in accordance with Florida Statute 287.087 hereby certifies that _____ does:

Name of Business

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in Paragraph 1.
4. In the statement specified in Paragraph 1, notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Florida Statute 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of Paragraphs 1 thru 5.

As the person authorized to sign this statement, I certify that this firm complies fully with above requirements.

Bidder's Signature

Date

**WELFARE RECIPIENT
PROPOSED HIRING INFORMATION**

Section I: To be Submitted with Proposal

Firm: _____

Address: _____

Phone Number: _____

Email Address: _____

Number of Individuals to be Hired: _____

Signature of Authorized Representative of Above Firm: _____

Printed Name: _____

Section II: For ZuCan Center Use Only (To be Completed After Contract Award)

Verification: I certify that the below individual are welfare recipients

Individual Complete Name:

1. _____

2. _____

3. _____

4. _____

*5. _____

*6. _____

**ZuCan, Inc.
609 North Powers Drive, Suite 340
Orlando, Florida 32818
(407) 531-1223**

Signature: _____

Printed Name: _____

*ZuCan Participants who do not meet specific job qualifications

**LETTER OF INTENT
(VERIFICATION OF M/WBE UTILIZATION)**

INSTRUCTIONS Proposers shall place the following on their letterhead, executed by their authorized agent. Signed Letters of Intent must be submitted with the Proposal for each M/WBE Sub-Consultant(s) listed by the Proposer on the schedule of Subcontracting-MWBE participation form. If percentages or dollar values listed on this agreement differ from percentages or dollar values listed on the schedule of Subcontracting-MWBE participation form of the proposal, the values listed on this Letter of Intent will supersede for RFP scoring/evaluation.

The subcontract will reflect a 72-hour prompt payment clause.

Failure to complete and submit these forms may result in finding of the submittals non-responsive.

M/WBE Sub-Consultant

Specific Scope(s) of Work

Subcontract Percentage/Amount

I understand that I shall not be allowed to substitute or change sub-consultants without prior written approval of Orange County's Project Manager and the Business Development Division. Such approval shall in no way relieve my obligations pursuant to Orange County's M/WBE requirements and goals contained in the Orange County Minority/Women Business Enterprise Ordinance, No. 94-02, as amended by Ordinance No. 98-25 and any subsequent amendments.

Under penalty of perjury, I declare that I have read the foregoing and the facts stated in it are true. False statements may result in criminal prosecution for a felony of the third degree as provided for in Section 92.525(3), Florida Statutes.

Authorized Agent of Prime Consultant

Date

Printed Name & Title

Authorized Agent of M/WBE Sub-Consultant

Date

Printed Name

&

Title

M/WBE Address

Phone Number

Fax Number

E VERIFICATION CERTIFICATION
Contract Y11-621-GJ

I hereby certify that I will utilize the U.S. Department of Homeland Security's E-Verify system in accordance with the terms governing the use of the system to confirm the employment eligibility of the individuals classified below. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duties shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida statutes.

All persons, including subcontractors and their workforce, who will perform work under **Contract No.Y11-621-GJ**, EDP LABORATORY INFORMATION SYSTEM SOFTWARE AND IMPLEMENTATION, within the state of Florida.

NAME OF CONTRACTOR: _____

ADDRESS OF CONTRACTOR: _____

AUTHORIZED SIGNATURE: _____

TITLE: _____

DATE: _____

RELATIONSHIP DISCLOSURE FORM
FOR USE WITH PROCUREMENT ITEMS, EXCEPT THOSE WHERE THE COUNTY IS THE
PRINCIPAL OR PRIMARY APPLICANT

For procurement items that will come before the Board of County Commissioners for final approval, this form shall be completed by the bidder, offerer, quoter or respondent and shall be submitted to the Purchasing and Contracts Division by the bidder, offerer, quoter or respondent.

In the event any information provided on this form should change, the applicant must file an amended form on or before the date the item is considered by the appropriate board or body.

Part I

INFORMATION ON APPLICANT (BIDDER, OFFEROR, QUOTER, OR RESPONDENT):

Legal Name of Applicant: _____

Business Address (Street/P.O. Box, City and Zip Code): _____

Business Phone () _____

Facsimile () _____

INFORMATION ON APPLICANT'S AUTHORIZED AGENT, IF APPLICABLE:
(Agent Authorization Form also required to be attached)

Name of Applicant's Authorized Agent: _____

Business Address (Street/P.O. Box, City and Zip Code): _____

Business Phone () _____

Facsimile () _____

Part II

IS THE APPLICANT A RELATIVE OF THE MAYOR OR ANY MEMBER OF THE BCC?

___ YES ___ NO

IS THE MAYOR OR ANY MEMBER OF THE BCC THE APPLICANT'S EMPLOYEE?

___ YES ___ NO

IS THE APPLICANT OR ANY PERSON WITH A DIRECT BENEFICIAL INTEREST IN THE OUTCOME OF THIS MATTER A BUSINESS ASSOCIATE OF THE MAYOR OR ANY MEMBER OF THE BCC?

___ YES ___ NO

If you responded "YES" to any of the above questions, please state with whom and explain the relationship.

(Use additional sheets of paper if necessary)

For Staff Use Only:

Date Submitted _____

Date Updated _____

Proposal Number #Y11-621-GJ

Part III

ORIGINAL SIGNATURE AND NOTARIZATION REQUIRED

I hereby certify that information provided in this relationship disclosure form is true and correct based on my knowledge and belief. If any of this information changes, I further acknowledge and agree to amend this relationship disclosure form prior to any meeting at which the above-referenced project is scheduled to be heard. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duty shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida Statutes.

Signature of Applicant

Date: _____

Print Name and Title of Person completing this form: _____

STATE OF FLORIDA :
COUNTY OF _____ :

I certify that the foregoing instrument was acknowledged before me this ____ day of _____, 20__ by _____. He/she is personally known to me or has produced _____ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the ____ day of _____, in the year _____.

(Notary Seal)

Signature of Notary Public
Notary Public for the State of Florida
My Commission Expires:

Staff signature and date of receipt of form _____
Staff reviews as to form and does not attest to the accuracy or veracity of the information provided herein.

FREQUENTLY ASKED QUESTIONS (FAQ)
ABOUT THE
RELATIONSHIP DISCLOSURE FORM

Updated 3-1-11

WHAT IS THE RELATIONSHIP DISCLOSURE FORM?

The Relationship Disclosure Form (form OC CE 2D and form OC CE 2P) is a form created pursuant to the County's Local Code of Ethics, codified at Article XIII of Chapter 2 of the Orange County Code, to ensure that all development-related items and procurement items presented to or filed with the County include information as to the relationship, if any, between the applicant and the County Mayor or any member of the Board of County Commissioners (BCC). The form will be a part of the backup information for the applicant's item.

WHY ARE THERE TWO RELATIONSHIP DISCLOSURE FORMS?

Form OC CE 2D is used only for development-related items, and form OC CE 2P is used only for procurement-related items. The applicant needs to complete and file the form that is applicable to his/her case.

WHO NEEDS TO FILE THE RELATIONSHIP DISCLOSURE FORM?

Form OC CE 2D should be completed and filed by the owner of record, contract purchaser, or authorized agent. Form OC CE 2P should be completed and filed by the bidder, offeror, quoter, or respondent, and, if applicable, their authorized agent. In all cases, the person completing the form must sign the form and warrant that the information provided on the form is true and correct.

WHAT INFORMATION NEEDS TO BE DISCLOSED ON THE RELATIONSHIP DISCLOSURE FORM?

The relationship disclosure form needs to disclose pertinent background information about the applicant and the relationship, if any, between, on the one hand, the applicant and, if applicable, any person involved with the item, and on the other hand, the Mayor or any member of the BCC.

In particular, the applicant needs to disclose whether any of the following relationships exist: (1) the applicant is a business associate of the Mayor or any member of the BCC; (2) any person involved with the approval of the item has a beneficial interest in the outcome of the matter *and* is a business associate of the Mayor or any member of the BCC; (3) the applicant is a relative of the Mayor or any member of the BCC; or (4) the Mayor or any member of the BCC is an employee of the applicant. (See Section 2-454, Orange County Code.)

HOW ARE THE KEY RELEVANT TERMS DEFINED?

Applicant means, for purposes of a development-related project, the owner, and, if applicable, the contract purchaser or owner's authorized agent. *Applicant* means, for purposes of a procurement item, the bidder, offeror, quoter, respondent, and, if applicable, the authorized agent of the bidder, offeror, quoter, or respondent.

Business associate means any person or entity engaged in or carrying on a business enterprise with a public officer, public employee, or candidate as a partner, joint venturer, corporate shareholder where the shares of such corporation are not listed on any national or regional stock exchange, or co-owner of property. (See Section 112.312(4), Florida Statutes, and Section 2-452(b), Orange County Code.)

Employee means any person who receives remuneration from an employer for the performance of any work or service while engaged in any employment under any appointment or contract for hire or apprenticeship, express or implied, oral or written, whether lawfully or unlawfully employed, and includes, but is not limited to, aliens and minors. (See Section 440.02(15), Florida Statutes.)

Relative means an individual who is related to a public officer or employee as father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, brother-in-law, sister-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, great grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, person who is engaged to be married to the public officer or employee or who otherwise holds himself or herself out as or is generally known as the person whom the public officer or employee intends to marry or with whom the public officer or employee intends to form a household, or any other natural person having the same legal residence as the public officer or employee. (See Section 112.312(21), Florida Statutes.)

DOES THE RELATIONSHIP DISCLOSURE FORM NEED TO BE UPDATED IF INFORMATION CHANGES?

Yes. It remains a continuing obligation of the applicant to update this form whenever any of the information provided on the initial form changes.

WHERE DO THE RELATIONSHIP DISCLOSURE FORM AND ANY SUBSEQUENT UPDATES NEED TO BE FILED?

For a development-related item, the Relationship Disclosure Form and any update need to be filed with the County Department or County Division where the applicant filed the application. For a procurement item, the Relationship Disclosure Form and any update need to be filed with the Purchasing and Contracts Division.

WHEN DO THE RELATIONSHIP DISCLOSURE FORM AND ANY UPDATES NEED TO BE FILED?

In most cases, the initial form needs to be filed when the applicant files the initial development-related project application or initial procurement-related forms. However, with respect to a procurement item, a response to a bid will not be deemed unresponsive if this form is not included in the initial packet submitted to the Purchasing and Contracts Division.

If changes are made after the initial filing, the final, cumulative Relationship Disclosure Form needs to be filed with the appropriate County Department or County Division processing the application not less than seven (7) days prior to the scheduled BCC agenda date so that it may be incorporated into the BCC agenda packet. When the matter is a discussion agenda item or is the subject of a public hearing, and an update has not been made at least 7 days prior to BCC meeting date or is not included in the BCC agenda packet, the applicant is obligated to verbally present such update to the BCC when the agenda item is heard or the public hearing is held. When the matter is a consent agenda item and an update has not been made at least 7 days prior to the BCC meeting or the update is not included in the BCC agenda packet, the item will be pulled from the consent agenda to be considered at a future meeting.

WHO WILL REVIEW THE INFORMATION DISCLOSED ON THE RELATIONSHIP DISCLOSURE FORM AND ANY UPDATES?

The information disclosed on this form and any updates will be a public record as defined by Chapter 119, Florida Statutes, and may therefore be inspected by any interested person. Also, the information will be made available to the Mayor and the BCC members. This form and any updates will accompany the information for the applicant's project or item.

However, for development-related items, if an applicant discloses the existence of one or more of the relationships described above and the matter would normally receive final consideration by the Concurrency Review Committee or the Development Review Committee, the matter will be directed to the BCC for final consideration and action following committee review.

CONCLUSION:

We hope you find this FAQ useful to your understanding of the Relationship Disclosure Form. Please be informed that if the event of a conflict or inconsistency between this FAQ and the requirements of the applicable ordinance or law governing relationship disclosures, the ordinance or law controls.

Also, please be informed that the County Attorney's Office is not permitted to render legal advice to an applicant or any other outside party. Accordingly, if the applicant or an outside party has any questions after reading this FAQ, he/she is encouraged to contact his/her own legal counsel.

faq form oc ce 2 d and p (relationship disclosure form) (3-1-11)

For Staff Use Only:

Initially submitted on _____

Updated On _____

Project Name (as filed) _____

Case or Bid No. Y11-621-GJ

ORANGE COUNTY SPECIFIC PROJECT EXPENDITURE REPORT

This lobbying expenditure form shall be completed in full and filed with all application submittals. This form shall remain cumulative and shall be filed with the department processing your application. Forms signed by a principal's authorized agent shall include an executed Agent Authorization Form.

This is the initial Form: _____

This is a Subsequent Form: _____

Part I

Please complete all of the following:

Name and Address of Principal (legal name of entity or owner per Orange County tax rolls): _____

Name and Address of Principal's Authorized Agent, if applicable: _____

List the name and address of all lobbyists, consultants, contractors, subcontractors, individuals or business entities who will assist with obtaining approval for this project. (Additional forms may be used as necessary.)

1. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___
2. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___
3. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___
4. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___
5. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___
6. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___
7. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___
8. Name and address of individual or business entity: _____
Are they registered Lobbyist? Yes ___ or No ___

For Staff Use Only:
Initially submitted on _____
Updated On _____
Project Name (as filed) _____
Case or Bid No.Y11-621-GJ

Part II

Expenditures:

For this report, an "expenditure" means money or anything of value given by the principal and/or his/her lobbyist for the purpose of lobbying, as defined in section 2-351, Orange County Code. This may include public relations expenditures including, but not limited to, petitions, fliers, purchase of media time, cost of print and distribution of publications. However, the term "expenditure" **does not** include:

- Contributions or expenditures reported pursuant to chapter 106, Florida Statutes;
- Federal election law, campaign-related personal services provided without compensation by individuals volunteering their time;
- Any other contribution or expenditure made by or to a political party;
- Any other contribution or expenditure made by an organization that is exempt from taxation under 26 U.S.C. s. 527 or s. 501(c)(4), in accordance with s.112.3215, Florida Statutes; and/or
- Professional fees paid to registered lobbyists associated with the project or item.

The following is a complete list of all lobbying expenditures and activities (including those of lobbyists, contractors, consultants, etc.) incurred by the principal or his/her authorized agent and expended in connection with the above-referenced project or issue. **You need not include de minimus costs (under \$50) for producing or reproducing graphics, aerial photographs, photocopies, surveys, studies or other documents related to this project.**

Date of Expenditure	Name of Party Incurring Expenditure	Description of Activity	Amount Paid
		TOTAL EXPENDED THIS REPORT	\$

For Staff Use Only:
Initially submitted on _____
Updated On _____
Project Name (as filed) _____
Case or Bid No. Y11-621-GJ

Part III
ORIGINAL SIGNATURE AND NOTARIZATION REQUIRED

I hereby certify that information provided in this specific project expenditure report is true and correct based on my knowledge and belief. I acknowledge and agree to comply with the requirement of section 2-354, of the range County code, to amend this specific project expenditure report for any additional expenditure(s) incurred relating to this project prior to the scheduled Board of County Commissioner meeting. I further acknowledge and agree that failure to comply with these requirements to file the specific expenditure report and all associated amendments may result in the delay of approval by the Board of County Commissioners for my project or item, any associated costs for which I shall be held responsible. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duty shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida Statutes.

Date: _____

Signature of ☐ Principal or ☐ Principal's Authorized Agent
(check appropriate box)

PRINT NAME AND TITLE: _____

STATE OF FLORIDA :
COUNTY OF _____ :

I certify that the foregoing instrument was acknowledged before me this ____ day of _____,
20__ by _____. He/she is personally known to me or has produced
_____ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the ____ day of
_____, in the year _____.

(Notary Seal)

Signature of Notary Public
Notary Public for the State of Florida
My Commission Expires: _____

Staff signature and date of receipt of form _____
Staff reviews as to form and does not attest to the accuracy or veracity of the information provided herein.

FREQUENTLY ASKED QUESTIONS (FAQ)
ABOUT THE
SPECIFIC PROJECT EXPENDITURE REPORT
Updated 3-1-11

WHAT IS A SPECIFIC PROJECT EXPENDITURE REPORT (SPR)?

A Specific Project Expenditure Report (SPR) is a report required under Section 2-354(b) of the Orange County Lobbying Ordinance, codified at Article X of Chapter 2 of the Orange County Code, reflecting all lobbying expenditures incurred by a principal and his/her authorized agent(s) and the principal's lobbyist(s), contractor(s), subcontractor(s), and consultant(s), if applicable, for certain projects or issues that will ultimately be decided by the Board of County Commissioners (BCC).

Matters specifically exempt from the SPR requirement are ministerial items, resolutions, agreements in settlement of litigation matters in which the County is a party, ordinances initiated by County staff, and some procurement items, as more fully described in 2.20 of the Administrative Regulations.

Professional fees paid by the principal to his/her lobbyist for the purpose of lobbying need not be disclosed on this form. (See Section 2-354(b), Orange County Code.)

WHO NEEDS TO FILE THE SPR?

The principal or his/her authorized agent needs to complete and sign the SPR and warrant that the information provided on the SPR is true and correct.

A principal that is a governmental entity does not need to file an SPR.

HOW ARE THE KEY RELEVANT TERMS DEFINED?

Expenditure means "a payment, distribution, loan, advance, reimbursement, deposit, or anything of value made by a lobbyist or principal for the purpose of lobbying. This may include public relations expenditures (including but not limited to petitions, flyers, purchase of media time, cost of print and distribution of publications) but does not include contributions or expenditures reported pursuant to Chapter 106, Florida Statutes, or federal election law, campaign-related personal services provided without compensation by individuals volunteering their time, any other contribution or expenditure made by or to a political party, or any other contribution or expenditure made by an organization that is exempt from taxation under 26 U.S.C. s. 527 or s. 501(c)(4)." (See Section 112.3215, Florida Statutes.) Professional fees paid by the principal to his/her lobbyist for the purpose of lobbying are not deemed to be "expenditures." (See Section 2-354, Orange County Code.)

Lobbying means seeking "to encourage the approval, disapproval, adoption, repeal, rescission, passage, defeat or modification of any ordinance, resolution, agreement, development permit, other type of permit, franchise, vendor, consultant, contractor, recommendation, decision or other foreseeable action of the [BCC]," and "include[s] all communications, regardless of whether initiated by the lobbyist or by the person being lobbied, and regardless of whether oral, written or electronic." (See Section 2-351, Orange County Code.) Furthermore, *lobbying* means communicating "directly with the County Mayor, with any other member of the [BCC], or with

any member of a procurement committee.” (See Section 2-351, Orange County Code.) *Lobbying* also means communicating “indirectly with the County Mayor or any other member of the [BCC]” by communicating with any staff member of the Mayor or any member of the BCC, the county administrator, any deputy or assistant county administrator, the county attorney, any county department director, or any county division manager. (See Section 2-351, Orange County Code.) *Lobbying* does not include the act of appearing before a Sunshine Committee, such as the Development Review Committee or the Roadway Agreement Committee other than the BCC.

Principal means “the person, partnership, joint venture, trust, association, corporation, governmental entity or other entity which has contracted for, employed, retained, or otherwise engaged the services of a lobbyist.” *Principal* may also include a person, partnership, joint venture, trust, association, corporation, limited liability corporation, or other entity where it or its employees do not qualify as a lobbyist under the definition set forth in Section 2-351 of the Orange County Code but do perform lobbying activities on behalf of a business in which it has a personal interest.

DOES THE SPR NEED TO BE UPDATED IF INFORMATION CHANGES?

Yes. It remains a continuing obligation of the principal or his/her authorized agent to update the SPR whenever any of the information provided on the initial form changes.

WHERE DO THE SPR AND ANY UPDATES NEED TO BE FILED?

The SPR needs to be filed with the County Department or County Division processing the application or matter. If and when an additional expenditure is incurred subsequent to the initial filing of the SPR, an amended SPR needs to be filed with the County Department or County Division where the original application, including the initial SPR, was filed.

WHEN DO THE SPR AND ANY UPDATES NEED TO BE FILED?

In most cases, the initial SPR needs to be filed with the other application forms. The SPR and any update must be filed with the appropriate County Department or County Division not less than seven (7) days prior to the BCC hearing date so that they may be incorporated into the BCC agenda packet. (See Section 2-354(b), Orange County Code.) When the matter is a discussion agenda item or is the subject of a public hearing, and any additional expenditure occurs less than 7 days prior to BCC meeting date or updated information is not included in the BCC agenda packet, the principal or his/her authorized agent is obligated to verbally present the updated information to the BCC when the agenda item is heard or the public hearing is held. When the matter is a consent agenda item and an update has not been made at least 7 days prior to the BCC meeting or the update is not included in the BCC agenda packet, the item will be pulled from the consent agenda to be considered at a future meeting.

WHO WILL BE MADE AWARE OF THE INFORMATION DISCLOSED ON THE SPR AND ANY UPDATES?

The information disclosed on the SPR and any updates will be a public record as defined by Chapter 119, Florida Statutes, and therefore may be inspected by any interested person. Also, the information will be made available to the Mayor and the BCC members. This information will accompany the other information for the principal’s project or item.

CONCLUSION:

We hope you find this FAQ useful to your understanding of the SPR. Please be informed that in the event of a conflict or inconsistency between this FAQ and the requirements of the applicable ordinance governing specific project expenditure reports, the ordinance controls.

Also, please be informed that the County Attorney's Office is not permitted to render legal advice to a principal, his/her authorized agent, or any other outside party. Accordingly, if after reading this FAQ the principal, his/her authorized agent or an outside party has any questions, he/she is encouraged to contact his/her own legal counsel.

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AGENT AUTHORIZATION FORM
FOR PROCUREMENTS IN ORANGE COUNTY,
FLORIDA



I/WE, (PRINT BIDDER, OFFEROR, QUOTER OR RESPONDENT NAME)

_____, DO HEREBY AUTHORIZE TO ACT AS MY/OUR
AGENT (PRINT AGENT'S NAME), _____, TO EXECUTE ANY
PETITIONS OR OTHER DOCUMENTS NECESSARY TO AFFECT THE CONTRACT APPROVAL PROCESS
MORE SPECIFICALLY DESCRIBED AS FOLLOWS, (IFB/RFP NUMBER AND
TITLE) _____, AND TO APPEAR ON MY/OUR BEHALF BEFORE ANY
ADMINISTRATIVE OR LEGISLATIVE BODY IN THE COUNTY CONSIDERING THIS CONTRACT AND TO ACT IN
ALL RESPECTS AS OUR AGENT IN MATTERS PERTAINING TO THIS CONTRACT.

Date: _____
Signature of Bidder, Offeror, Quoter or Respondent

STATE OF _____:
COUNTY OF _____:

I certify that the foregoing instrument was acknowledged before me this ____ day of _____, 20__ by _____. He/she is personally known to me or has produced _____ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the ____ day of _____, in the year _____.

(Notary Seal)

Signature of Notary Public
Notary Public for the State of Florida

My Commission Expires: _____

EXHIBIT A

LEASED EMPLOYEE AFFIDAVIT

I affirm that an employee leasing company provides my workers' compensation coverage. I further understand that my contract with the employee leasing company limits my workers' compensation coverage to enrolled worksite employees only. My leasing arrangement does not cover un-enrolled worksite employees, independent contractors, uninsured sub-contractors or casual labor exposure.

I hereby certify that 100% of my workers are covered as worksite employees with the employee leasing company. I certify that I do not hire any casual or uninsured labor outside the employee leasing arrangement. I agree to notify the County in the event that I have any workers not covered by the employee leasing workers' compensation policy. In the event that I have any workers not subject to the employee leasing arrangement, I agree to obtain a separate workers' compensation policy to cover these workers. I further agree to provide the County with a certificate of insurance providing proof of workers' compensation coverage prior to these workers entering any County jobsite.

I further agree to notify the County if my employee leasing arrangement terminates with the employee leasing company and I understand that I am required to furnish proof of replacement workers' compensation coverage prior to the termination of the employee leasing arrangement.

I certify that I have workers' compensation coverage for all of my workers through the employee leasing arrangement specified below:

Name of Employee Leasing Company: _____

Workers' Compensation Carrier: _____

A.M. Best Rating of Carrier: _____

Inception Date of Leasing Arrangement: _____

I further agree to notify the County in the event that I switch employee-leasing companies. I recognize that I have an obligation to supply an updated workers' compensation certificate to the County that documents the change of carrier.

Name of Contractor: _____

Signature of Owner/Officer: _____

Title: _____ Date: _____

EXHIBIT B

COMMERCIAL GENERAL LIABILITY
CG 20 26 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

ADDITIONAL INSURED – DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies Insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)
<i>The following are additional insureds under the Professional Liability section of this policy (already included under the GL by form #86571).</i>
YOUR MEDICAL DIRECTORS AND ADMINISTRATORS, INCLUDING PROFESSIONAL PERSONS, BUT ONLY WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FOR THE NAMED INSURED AS MEDICAL DIRECTORS AND ADMINISTRATORS;
AN INDEPENDENT CONTRACTOR IS AN INSURED ONLY FOR THE CONDUCT OF YOUR BUSINESS AND SOLELY WHILE PERFORMING SERVICES FOR A CLIENT OF THE NAMED INSURED, BUT SOLELY WITHIN THE SCOPE OF SERVICES CONTEMPLATED BY THE NAMED INSURED;
STUDENTS IN TRAINING WHILE PREFORMING DUTIES AS INSTRUCTED BY THE NAMED INSURED;
ANY ENTITY YOU ARE REQUIRED IN A WRITTEN CONTRACT (HEREINAFTER CALLED ADDITIONAL INSURED) TO NAME AS AN INSURED IS AN INSURED BUT ONLY WITH RESPECT TO LIABILITY ARISING OUT OF YOUR PREMISES OR OPERATIONS:
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for “bodily Injury”, “property damage” or “personal and advertising injury” caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

- A. In the performance of you ongoing operations; or
- B. In connection with your premises owned by or rented to you.

EXHIBIT C

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

ADDITIONAL INSURED – DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies Insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)
ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS PURCHASING AND CONTRACTS DIVISION 400 E. SOUTH STREET ORLANDO, FL 32801
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for “bodily Injury”, “property damage” or “personal and advertising injury” caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

- A. In the performance of you ongoing operations; or
- B. In connection with your premises owned by or rented to you.

EXHIBIT D

WORKERS COMPENSTION AND EMPLOYEES LIABILITY INSURANCE POLICY

WC 00 03 13

2ND Reprint

Effective April 1, 1984

Advisory

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

Name of Person or Organization:

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS
PURCHASING AND CONTRACTS DIVISION
400 E. SOUTH STREET
ORLANDO, FL 32801

© 1983 National Council on Compensation Insurance, Inc.

©NCCI Holdings, Inc.

EXHIBIT E

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 24 04 10 93

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies Insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS
PURCHASING AND CONTRACTS DIVISION
400 E. SOUTH STREET
ORLANDO, FL 32801

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

The TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US Condition (Section IV – COMMERCIAL GENERAL LIABILITY CONDITIONS) is amended by the addition of the following:

We waive any right to recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "Products-completed operations hazard". This waiver applies only to the person or organization shown in the Schedule above.

Contract #Y11-621

This Contract is made as of the ____ day of _____, 2011, by and between Orange County, a political subdivision of the State of Florida, by and through its Board of County Commissioners, hereinafter referred to as the COUNTY, and _____ [] an individual, [] a partnership, [] a corporation authorized to do business in the State of Florida, hereinafter referred to as the CONSULTANT, whose Federal I.D. or Social Security number is _____.

In consideration of the mutual promises contained herein, the COUNTY and the CONTRACTOR agree as follows:

WHEREAS, COUNTY requires the provision and implementation of a Laboratory Information System, hereinafter referred to as the "LIMS"; and

WHEREAS, CONTRACTOR has experience in the design, integration, implementation and maintenance of computer-based systems for state, county, and local governments; and

WHEREAS, CONTRACTOR and COUNTY mutually desire that CONTRACTOR make available the software and services as further described in Exhibit A, Scope of Work, and Exhibit B, Functional Requirements, on the terms contained herein;

NOW, THEREFORE, in consideration of these premises and mutual covenants contained herein, the parties hereby agree as follows:

ARTICLE 1 - STATEMENT OF WORK

CONTRACTOR shall deliver the System and services as described in the Statement of Work, attached as Exhibit A, and Functional Requirements, attached as Exhibit B, and incorporated herein by reference and the fee proposal submitted by CONTRACTOR to COUNTY dated _____.

CONTRACTOR agrees that the work, including software and materials provided, shall conform to professional standards of care and practice in effect at the time the work is performed and be of the highest quality. All software and materials provided shall be new.

All services, software, and materials provided under this Contract shall be provided in accordance with the project schedule that is developed by and mutually agreed to by the Parties. An Initial Project Schedule is included as Exhibit ____ to the contract documents. The parties agree that time is of the essence in the performance of this Contract.

This contract will remain in effect until COUNTY has provided written confirmation that CONTRACTOR has completed all of the tasks and the COUNTY has made all of the payments required hereunder and the warranty period has been exhausted, or until it has been otherwise terminated as provided for in Article X, Termination, herein.

ARTICLE 2 - PAYMENT

- A. Payments are tied to the deliverables described in detail in the Statement of Work and in Exhibit _____, Project Milestone/Payment Matrix, and will be made in amounts specified as each associated task is completed and accepted by the County. The County shall retain twenty percent (20%) of the amount of each properly submitted and approved invoice and reserves the right to maintain the same level of retainage until final acceptance of the system occurs. At the County's discretion, the County may reduce the level of retainage to five percent (5%) in later stages of the project or eliminate it all together.
- B. All costs, license fees, labor, professional services fees and expenses identified in the contract exhibits are provided as part of the fixed-price of this Contract and CONTRACTOR agrees to deliver the system through the Notice of Final System Acceptance within the fixed price of the Contract, unless otherwise mutually agreed by the parties in accordance with the Project Change Management provision in this Contract.
- C. Invoices for all goods and services pursuant to this Contract shall be submitted by CONTRACTOR, whether or not CONTRACTOR is the direct provider of any such goods or services. All expenses related to the services are included in the fees, and any additional expenses shall not be reimbursed by COUNTY unless agreed to by COUNTY in writing. COUNTY will initially review the invoices and determine that the invoices are in the proper form; COUNTY shall forward a copy of the invoice to the Orange County Comptroller for processing and payment. Upon receipt of the invoice by the Orange County Comptroller, COUNTY shall pay in accordance with the Florida Prompt Payment Act, codified at sections 218.70 to 218.80 of the Florida Statutes, directly to CONTRACTOR, who shall remain wholly responsible for the payment of all of the Third Parties, the contractors, and subcontractors. Two copies of each invoice shall be sent to:

Orange County Environmental Protection Division
Attention: Julie Bortles, Project Manager
800 Mercy Drive
Orlando, FL 32808
(407) 836-1400

- D. **Availability of Funds:** COUNTY's performance and obligation to pay under this Contract is contingent upon an annual appropriation for its purpose by the Board of County Commissioners.
- E. **Arrears:** CONTRACTOR shall not pledge COUNTY's credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgment, lien, or any form of indebtedness. CONTRACTOR further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.
- F. **Federal and State Tax:** COUNTY is exempt from payment of Florida State Sales and Use Taxes. COUNTY will sign an exemption certificate submitted by CONTRACTOR. CONTRACTOR shall not be exempted from paying sales tax to

its suppliers for materials used to fulfill contractual obligations with COUNTY, nor is CONTRACTOR authorized to use COUNTY's Tax Exemption Number in securing such materials. CONTRACTOR shall be responsible for payment of its own and its share of its employees' FICA and Social Security benefits with respect to this Contract.

- G. **Progression of Work:** CONTRACTOR understands that it will not receive payment for work that was not specifically authorized by COUNTY in writing and performed in accordance with the sequential Project Milestone/Payment Matrix.
- H. **Responsibility for Payment to Third Parties:** CONTRACTOR is solely responsible for all payments, fees, costs, and invoices to or from the Third Parties, regardless of the payment provisions in any Third Party agreement. Thus, CONTRACTOR shall pay the Third Parties in accordance with the payment provisions set forth herein and shall pay the Third Parties in accordance with the payment schedules set forth in the License Agreements and Maintenance and Support Agreements with _____, attached as Exhibit _____. Additionally, CONTRACTOR is solely responsible for providing COUNTY written confirmation that all payments, fees, costs, and invoices for Third Party License Agreements and associated first year Maintenance and Support Agreements have been paid in full no later than 90 days following payment by the COUNTY. The COUNTY is obligated to reimburse CONTRACTOR, according to payment schedule shown in Exhibit ____ for all such Third Party license payments made by CONTRACTOR. In the event of CONTRACTOR's failure to provide such proof of payment or failure to make all Third Party payments under the provisions set forth herein, COUNTY shall directly pay to the Third Party any outstanding balance owed as a result of CONTRACTOR's failure to make complete and total payments for the License Agreements and/or Maintenance and Support Agreements on behalf of COUNTY. Any such payments made directly to the Third Parties by COUNTY shall be deducted from any future Milestone Payments to CONTRACTOR and the total Fixed Cost of this Contract shall be reduced by the total amount of COUNTY's payments made directly to the Third Parties.

ARTICLE 3 - DELIVERABLES

- A. **General:** CONTRACTOR shall develop, install, integrate, and implement into live production the LIMS that satisfies the Statement of Work and Functional Requirements for the fixed price of _____ (\$). Where multiple methods or techniques to fulfill a particular requirement exist, CONTRACTOR and COUNTY shall jointly determine the one method or technique to be used. CONTRACTOR shall be responsible for implementing and integrating all associated software and hardware with the COUNTY infrastructure so that all parts and components of the LIMS operate together as a fully functional and integrated system.
- B. **Delivery Schedule:** CONTRACTOR shall perform the tasks, deliver the items and meet the milestones described in the exhibits to the contract on or before the deadlines set forth in the mutually agreed upon project schedule. The Parties agree to avoid slippage in the project schedule by assigning the necessary resources to the project.

- C. Documentation of LIMS:** CONTRACTOR shall provide all documentation supplied by Third Party vendors and as developed by CONTRACTOR according to the Statement of Work and signed off by COUNTY to enable COUNTY to establish, utilize, and maintain the LIMS. CONTRACTOR agrees that COUNTY may reproduce this material solely for its internal use on an unlimited basis. All documentation shall be made available in the standard forms, including digital, offered by the Third Party vendors.

ARTICLE 4 - PROJECT CHANGE MANAGEMENT

Project Change Request Process: The Parties shall have the right to request from each other, in writing a change to the LIMS. In the event changes to the Services (collectively "Change"), become necessary or desirable to the parties, the parties shall follow the procedures set forth in this Section.

- A. Change Implementation:** A Change shall be effective only when documented by a written, dated agreement executed by both parties which expressly references and is attached to this Agreement (a "Change Statement"). The Change Statement shall set forth in detail: (i) the Change requested, including all modifications of the duties of the parties; (ii) the reason for the proposed Change; and (iii) a detailed analysis of the impact of the Change on the results of the Services and time for completion of the Services, including the impact on all Milestones and delivery dates and any associated price.
- B. Approval by Project Manager:** In the event either party desires a Change, the Project Manager for such party shall submit to the other party's Project Manager a proposed Change Statement. If the receiving party does not accept the Change Statement in writing within ten (10) days or a time period as otherwise mutually agreed to in writing, the receiving party shall be deemed to have rejected the Change Statement. If the parties cannot reach agreement on a proposed Change, the Company shall nevertheless continue to render performance under this agreement in accordance with its (unchanged) terms and conditions.
- C. Final Approval by COUNTY:** Upon receipt of the revised proposed Statement of Work and resulting changes to the Project Schedule and Milestones, COUNTY's Project Manager will obtain the final approval. CONTRACTOR may not initiate work on the requested change until the Project Change Response Form and associated Project Change Request Form have been fully executed with the required County approval signatures and have been delivered to CONTRACTOR.
- D. Contract Amendment:** All Project Change Response Forms that are duly executed by the authorized representatives of COUNTY and of CONTRACTOR shall be incorporated into this Contract by written amendment and shall be subject to the provisions of this Contract to the same extent and with the same effect as if originally set forth herein.

- E. Prime CONTRACTOR Responsibility:** CONTRACTOR may utilize subcontractors to perform services and provide goods to COUNTY, with COUNTY's prior written consent, but CONTRACTOR remains wholly responsible to COUNTY for all obligations under this Contract, including the timely and proper delivery of goods and services, warranties, licenses, default, and all other responsibilities.

ARTICLE 5 –STAFFING

CONTRACTOR'S Staffing and Qualifications: The consulting and professional personnel provided by CONTRACTOR shall have appropriate technical and application skills, industry experience, and system knowledge to enable them to perform their duties hereunder. CONTRACTOR shall provide the named, key employees listed in the Statement of Work. Each member of CONTRACTOR's project team is required to undergo a background check as at the level specified by the COUNTY at the CONTRACTOR's expense. Once approved by COUNTY, the individual members of CONTRACTOR's project team shall be available to perform their duties for the duration of the project, or for the duration that the relevant responsibilities of the individuals are required given the nature of services contemplated to be performed by the individuals.

- A. Designation of Project Manager:** CONTRACTOR shall designate a Project Manager and a qualified backup Project Manager that are acceptable to COUNTY. CONTRACTOR Project Manager shall be responsible for all deliverables. CONTRACTOR Project Manager must have detailed knowledge of LIMS. CONTRACTOR Project Manager should be experienced in, and fully understand the tasks associated with all aspects of this project and project management.

1. CONTRACTOR Project Manager shall be fully responsible for all onsite and offsite activities consistent with CONTRACTOR's obligations under this Contract. Throughout the term of this Contract, CONTRACTOR Project Manager shall provide COUNTY with a monthly status report on the progress of the project, in an appropriate form, no later than the 10th day of the following month. This report may be delivered by facsimile, e-mail, U.S. Mail, or private carrier, provided that it is received by COUNTY Project Manager in a timely manner. At a minimum, this report should describe in detail the following: (1) the tasks performed by each member of CONTRACTOR's team for the preceding week; (2) the tasks and goals to be performed by each member of CONTRACTOR's team for the current and following weeks, including the on-site schedule of each team member; (3) tracking of the tasks relative to the agreed-upon Scope of Work, Project Schedule and Milestones; (4) issues that need to be addressed by CONTRACTOR; (5) issues that need to be addressed by COUNTY; (6) assessment of the project including the disclosure of any risk known or suspected by CONTRACTOR that may jeopardize the timeliness, functionality or performance of the LIMS; (7) status of payments made to CONTRACTOR; and (8) summary of meetings

including the topics of discussion, highlights, and summary of pertinent points. CONTRACTOR Project Manager and COUNTY Project Manager shall discuss the initial report, and finalize the report together.

2. CONTRACTOR Project Manager shall devote all necessary time and effort to the installation and implementation of LIMS at COUNTY. At a minimum, CONTRACTOR Project Manager or the Project Manager's appropriate designee shall be on-site during all deliveries, installation, configuration actions, testing, implementation, transition, and at all other necessary or critical times, as jointly agreed to by CONTRACTOR Project Manager and COUNTY Project Manager.
 3. In the event that the designated CONTRACTOR Project Manager terminates his or her employment with CONTRACTOR, the position shall be assumed, after COUNTY's prior written approval, by an individual with similar qualifications, experience, and knowledge of the LIMS, and the development, integration, and implementation of the LIMS at COUNTY.
 4. CONTRACTOR shall not replace the approved Project Manager without written approval of COUNTY. In cases of the approved Project Manager's prolonged illness or other extended leave of absence, or resignation or termination from CONTRACTOR's employment, CONTRACTOR shall provide an interim Project Manager whose continued work on the project shall be subject to approval by COUNTY.
- B. CONTRACTOR shall provide sufficient staffing to enable the LIMS to be installed in accordance with the Work Plan.
- C. COUNTY shall have the right to require CONTRACTOR to replace any personnel working on the project, including CONTRACTOR Project Manager, whom COUNTY deems, in its reasonable discretion, to be unfit or otherwise unsatisfactory. COUNTY shall provide CONTRACTOR with written notice of its desire to replace such personnel, including the reason(s) for the replacement. Within ten (10) COUNTY Business Days of receipt of COUNTY's written request, CONTRACTOR shall deliver by overnight courier, or by email or facsimile followed by U.S. Mail, the resume(s) of the proposed replacement(s) and COUNTY shall have the right to request background checks. Upon receipt of COUNTY's written acceptance, the proposed replacements shall commence working on COUNTY's project. COUNTY shall not be responsible or liable for educating or training CONTRACTOR's staff so that CONTRACTOR can deliver the required goods and services. Furthermore, CONTRACTOR agrees not to utilize any member of CONTRACTOR's project team for other projects if such utilization would disrupt, delay, or jeopardize the tasks, activities, or schedule set forth in the Work Plan.
- D. **COUNTY PROJECT MANAGER:** Orange County shall appoint a Project Manager from EPD, who will work in conjunction with other EPD and ISS staff members to support the design and implementation of the LIMS. The COUNTY Project Manager shall coordinate with the CONTRACTOR's Project Manager.

ARTICLE 6 - LICENSE GRANT

- A. There are two forms of licenses: Developed Software, that is software developed by the CONTRACTOR specifically as part of this project and Commercial Off the Shelf (COTS) Software Licenses from _____, _____, _____.
1. Developed Software Licenses: In consideration of the license fee to be paid, Contractor grants to County, under the terms of this Contract, a non-exclusive, site-wide, irrevocable, and transferable license to use, operate and maintain the Developed Software.
 2. Off the Shelf Software Licenses: For the term of this Agreement, CONTRACTOR shall act as sub-licensor to the COUNTY of COTS Software. In consideration of the license fee to be paid, CONTRACTOR grants to COUNTY, under the terms of this Contract, a non-exclusive, license to use, operate and maintain the Licensed Software for the LIMS. This license grant permits the EPD and other COUNTY Departments to install the licensed software on multiple environments, including development, test and production environments for the LIMS, as well as for any other direct business functions of the LIMS. Other terms of this license grant are detailed in the _____ License Agreement and related supplement attached in Exhibit _____. Where the terms of Exhibit _____ are in conflict with this paragraph, this paragraph shall take priority.
- B. COUNTY will not decompile or disassemble the Licensed Software or other Software, provided by the CONTRACTOR, which bears a copyright notice of any third party without permission of the third party.
- C. COUNTY can make and maintain archival copies of each item of Licensed Software, and each copy will contain all legends and notices and will be subject to the same conditions and restrictions as the original. COUNTY may also make copies of the Licensed Software in the course of routine backups of hard drive(s) for the purpose of recovery of hard drive contents.

ARTICLE 7 - TESTING

CONTRACTOR shall conduct and, in the case of acceptance testing facilitate, testing in accordance with the Statement of Work and related documents. Testing regimes will include unit, system, and acceptance. CONTRACTOR will make every effort to address incidents resulting from Testing Activities. During testing of the LIMS, incidents that occur will be documented using a mutually agreed upon Incident Reporting and Tracking Form. An incident will be Open when the Incident Form is submitted to CONTRACTOR. The Incident will be assigned a priority and processed according to the methodology defined herein. The response period will begin when COUNTY conveys the Incident Form to CONTRACTOR and the priority has been assigned based on the procedures defined herein.

ARTICLE 8 – WARRANTIES

CONTRACTOR represents and warrants for a period of 365 days following COUNTY's acceptance of the LIMS that:

- A. **Installation and Performance Warranty:** CONTRACTOR warrants that the entire LIMS shall be operable, shall be installed correctly and shall conform to the performance capabilities, specifications, functions, reliability requirements, and other descriptions and standards as identified in its published documentation and specifications documentation developed under this Contract. CONTRACTOR represents and warrants to COUNTY that CONTRACTOR's representations and warranties made in this Contract, its Response to the RFP, and associated Documentation are true and correct.
- B. **Third Party Applications:** All CONTRACTOR warranties contained herein are in addition to any Third Party Application warranties stated in the License Agreements. Additionally, nothing in the License Agreements shall be construed as limiting, modifying, or detracting from CONTRACTOR's obligation to deliver a fully functional LIMS to COUNTY at a fixed price and within the timeframe and CONTRACTOR's representations and warranties as set forth herein. During the term of this Contract, all LIMS applications and components shall:
1. Be capable of being copied by COUNTY, but within the parameters outlined in any license agreements;
 2. Not contain viruses or pre-programmed devices that are intentionally and maliciously incorporated by CONTRACTOR or that will cause any software utilized by COUNTY to be erased or become incapable of processing accurately and in accordance with the warranties specified herein and the Statement Of Work;
 3. Be capable of operating to applicable performance specifications on the combination of the Hardware, Equipment, and Software recommended by CONTRACTOR as the performance configuration; and
 4. Be "change of century compliant", meaning that Century 1900 and 2000 values will be processed correctly without abnormally ending; and all date values processed by the Software shall contain the correct century and shall include at a minimum: date data century recognition; calculations that accommodate same century and multi-century formulas and date values; and date interface values that reflect the century;

In the event the LIMS does not satisfy the conditions of performance stated herein, CONTRACTOR's obligation is to provide a fix and correct the deficiency to attain the performance requirements. Failure by CONTRACTOR to comply with warranty provisions hereof may be deemed by COUNTY as a breach of CONTRACTOR's obligations.

- C. **No Liens:** CONTRACTOR represents and warrants that the CONTRACTOR Services are not subject to any liens or other security interest.
- D. **Comply with Third Party License:** CONTRACTOR represents, warrants, and agrees that CONTRACTOR and all of its subcontractors will comply with the provisions of the Third Party License Agreements and any other license agreement entered into by COUNTY and a Third Party if CONTRACTOR is provided with a copy of the license agreement.
- E. **Representations and Warranties Throughout this Contract:** It is understood and agreed by the parties that CONTRACTOR's representations and warranties are set forth throughout this Contract and are not confined to this Section.
- F. **Assignment of Warranties:** CONTRACTOR hereby assigns and agrees to deliver to COUNTY all representations and warranties received by CONTRACTOR from its subcontractors, vendors, and suppliers, and shall be responsible for the functionality and performance of the LIMS until the notice of Final System Acceptance and through the warranty period.
- G. **Resolution of Incidents:** For the warranty period, CONTRACTOR shall respond and resolve any incidents with the software in accordance with the schedule set forth under the support and maintenance section.
- H. **Highest Industry Standards:** All work performed by the CONTRACTOR and/or its subcontractors pursuant to this Agreement shall meet the highest industry standards for professional quality and workmanship, and shall be performed by qualified staff using quality products and materials.
- I. ALL WARRANTIES PROVIDED HEREIN ARE PERSONAL TO, AND INTENDED SOLELY FOR THE BENEFIT OF COUNTY AND DO NOT EXTEND TO ANY THIRD PARTY. THE EXPRESS WARRANTIES IN THIS AGREEMENT SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED.

ARTICLE 9 - SOFTWARE MAINTENANCE AND SUPPORT

So long as the COUNTY remains current in fees for support and maintenance, CONTRACTOR shall provide the following support and maintenance for Developed Software, representing the LIMS as a whole, including Off the Shelf Software as it relates to the LIMS. The COUNTY may avail itself of maintenance and support of the COTS Software in accordance with the _____ License Agreement (Exhibit _). The initial Software maintenance and support period shall begin upon final system acceptance. The fee for these services is identified in Exhibit _ to the contract.

- A. **Reporting of Defects:** The CONTRACTOR shall serve as a single source to address all Defects in the System. Notwithstanding the notice provisions contained in this Agreement, the COUNTY shall be entitled to report Defects to the Company by telephone, E-mail, or other means, provided that all Defects which require immediate attention shall first be reported by telephone. Notice of

Defects need not be in writing and shall be deemed effective when first received by the Company.

- B. Telephone Support:** The CONTRACTOR shall provide toll free “single point of call” telephone support to the COUNTY with respect to the use of the Products and the correction of Defects. Such support will be available from Monday through Friday 8:00 a.m. until 5:00 p.m. Eastern Time (“Regular Business Hours”). During Regular Business Hours, the Company will provide sufficient, qualified help desk personnel to ensure that County problems are addressed immediately.
- C. Resolution of Incidents:** The Company shall further take all actions reasonably necessary to prevent Defects, and to cause the System and related software to reliably and consistently operate in conformance with the Specifications and Requirements. The Company shall respond to and correct all Defects in the System in accordance with following response and resolution schedule.
1. **Priority 1 Incident is** where a functional requirement component, module, or enhancement renders the System completely inoperable; or is unavailable, is nonfunctional; or does not conform to specifications such that it prevents the accomplishment of a mission critical function such as the ability to edit or enter data or causes loss of data or data corruption, or jeopardize safety or security. The (parties agree that minor functions such as the printing of reports shall not be deemed “mission critical”
 2. **Priority 1 Incident Response and Resolution:** CONTRACTOR shall respond to a Priority 1 issue immediately and seek resolution within 24 hours from the time first reported. Actual timelines for completing fixes to priority 1 incidents will vary depending upon the nature and priority of the incident.
 3. **Priority 2 Incident is** where the functional requirement component is partially functional, or is functional via a work around, but performs only at a limited capacity; or a component does not conform to notable portions of its specifications; or work can proceed, but steps may be omitted or workarounds necessary to do so.
 4. **Priority 2 Incident Response and Resolution:** CONTRACTOR shall respond within (24) twenty-four hours and provide resolution of acceptable Work-Around within (48) forty-eight hours. CONTRACTOR shall provide the proposed resolution within (72) seventy two hours from the time first reported. Actual timelines for completing fixes to priority 2 incidents will vary depending upon the nature and priority of the incident.
 5. **Priority 3 Incident is** where the functional requirement component produces errors or anomalous results and a component does not conform to minor portions of its specifications; work can proceed, but workarounds may be necessary to do so.

6. **Priority 3 Incident Response and Resolution:** CONTRACTOR shall respond within provide the proposed work around within (36) thirty-six hours. CONTRACTOR shall provide the implemented resolution within (5) five business days from the time first reported.
7. **Priority 4 Incident is** where (1) the functional requirement component is fully functional and may only contain a cosmetic flaw, a misspelled or cryptic message, or a documented misinterpretation of functionality that does not interfere with the COUNTY's.
8. **Priority 4 Incident Response and Resolution:** CONTRACTOR shall respond within (36) hours and provide resolution within (30) thirty days for Developed Software and in the next release of Off the Shelf Software.

Proposed resolutions to Incidents will be documented and reviewed with COUNTY within the time limits noted above or as otherwise agreed by the Project Managers. COUNTY may choose to allow a temporary resolution or workaround, thus providing CONTRACTOR with additional time to define and implement a final resolution. Resolutions that are approved by COUNTY will be implemented by CONTRACTOR and will be fully functional within time limits.

- D. **Onsite Support:** CONTRACTOR shall provide on-site maintenance and support to the extent necessary to correct any incident or to carry out any of the CONTRACTOR's other obligations under this Agreement. There shall be no charge for such on-site services, other than the Maintenance Fees provided in this Agreement. Provided that if the incident turns out to be something other than those for which it is responsible, CONTRACTOR shall have the right to charge the COUNTY for its on-site work on a time and materials basis.
- E. **Limitation:** CONTRACTOR responsibility to address Incidents in accordance with these guidelines will only pertain to functional requirement components of the LIMS that are reported and assigned to CONTRACTOR. Responsibility will not extend to any other component (e.g., hardware, network, or non-LIMS software) or changes made to the System or Software without the consent or assistance of the CONTRACTOR. In such instances where CONTRACTOR responds to incident requests that are beyond its responsibility, CONTRACTOR may charge COUNTY for such service on a time and materials basis.
- F. **COUNTY Obligations:** The COUNTY shall have the following obligations and responsibilities.
 1. The COUNTY shall make all reasonable efforts to investigate and, where within its control, resolve incidents. If it is determined that the incident is within the responsibility of the CONTRACTOR, it shall provide a single point of reporting and contact for the incident.
 2. The COUNTY shall provide CONTRACTOR remote access, including where appropriate, administrator rights so that the CONTRACTOR may diagnose and, if possible, provide resolution remotely.

3. If it becomes necessary for the CONTRACTOR to come onsite at the COUNTY to resolve incidents, the COUNTY shall provide all reasonable access, including 24-hour access, to facilities, systems and other resources necessary to effect resolution.
4. Incidents that are reported by COUNTY staff must be able to be reproduced by CONTRACTOR staff or by COUNTY staff in the presence of CONTRACTOR staff. Incidents will be investigated by CONTRACTOR and every effort made to reproduce the incident. CONTRACTOR will make every effort to address incidents. CONTRACTOR may need to adjust response times or request COUNTY to change the incident priority for individual incidents in order to efficiently manage the resolution of incidents. In the event that an incident cannot be reproduced, CONTRACTOR shall have the right to request the closure of the incident by COUNTY.

ARTICLE 10 - INDEMNIFICATION

To the fullest extent permitted by law, the CONTRACTOR shall defend, indemnify, and hold harmless the COUNTY, its officials, agents, and employees from and against any and all claims, suits, judgments, demands, liabilities, damages, cost and expenses (including attorney's fees) of any kind or nature whatsoever arising directly or indirectly out of or caused in whole or in part by any act or omission of the CONTRACTOR or its subcontractors (if any), anyone directly or indirectly employed by them, or anyone for whose acts any of them may be liable; excepting those acts or omissions arising out of the sole negligence of the COUNTY.

ARTICLE 11 - SUCCESSORS AND ASSIGNS

The COUNTY and the CONTRACTOR each binds itself and its partners, successors, executors, administrators and assigns to the other party of this Contract and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the COUNTY nor the CONTRACTOR shall assign, sublet, convey or transfer its interest in this Contract without the written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the COUNTY which may be a party hereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the COUNTY and the CONTRACTOR.

ARTICLE 12 - REMEDIES

This Contract shall be governed by the laws of the State of Florida. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or at equity or by statute or otherwise. No single or partial exercise by any party of any right, power, or remedy hereunder shall preclude any other or further exercise thereof.

ARTICLE 13 - UNIFORM COMMERCIAL CODE (APPLICABLE ONLY IF CONTRACT IS FOR THE PURCHASE OF GOODS)

The Uniform Commercial Code (Florida Statutes, Chapter 672) shall prevail as the basis for contractual obligations between the CONTRACTOR and the COUNTY for any terms and conditions not specifically stated in this Contract.

ARTICLE 14 - CONFLICT OF INTEREST

The CONTRACTOR represents that it presently has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance or services required hereunder, as provided for in Florida Statutes 112.311. The CONTRACTOR further represents that no person having any interest shall be employed for said performance. The CONTRACTOR shall promptly notify the COUNTY in writing by certified mail of all potential conflicts of interest for any prospective business association, interest or other circumstance which may influence or appear to influence the CONTRACTOR'S judgment or quality of services being provided hereunder. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that the CONTRACTOR may undertake and request an opinion of the COUNTY as to whether the association, interest or circumstance would, in the opinion of the COUNTY, constitute a conflict of interest if entered into by the CONTRACTOR. The COUNTY agrees to notify the CONTRACTOR of its opinion by certified mail within thirty (30) days of receipt of the notification by the CONTRACTOR. If, in the opinion of the COUNTY, the prospective business association, interest or circumstance would not constitute a conflict of interest by the CONTRACTOR, the COUNTY shall so state in the notification and the CONTRACTOR shall, at its option, enter into said association, interest or circumstance and it shall be deemed not in conflict of interest with respect to services provided to the COUNTY by the CONTRACTOR under the terms of this Contract.

ARTICLE 15 - DISCLOSURE AND OWNERSHIP OF DOCUMENTS

The CONTRACTOR shall deliver to the COUNTY for approval and acceptance, and before being eligible for final payment or any amounts due, all documents and materials prepared by and for the COUNTY under this Contract.

All oral and written information not in the public domain or not previously known, and all information and data obtained, developed or supplied by the COUNTY, or at its expense, will be kept confidential by the CONTRACTOR and will not be disclosed to any other party, directly or indirectly, without the COUNTY'S prior written consent unless required by a lawful order.

VertiQ shall have sole right, title, and interest in and to the Product and all documentation relating to the Product (including its development or its operation, testing or use, and all reports and copies created), and all intellectual property rights associated with the Product (including, without limitation, rights to copyrights, patents, trade secrets, and know-how). This agreement does not provide the County with title or ownership of the Product, but only a right of limited use under this license.

The COUNTY and the CONTRACTOR shall comply with the provisions of Chapter 119, Florida Statutes (Public Records Law).

All covenants, agreements, representations and warranties made herein, or otherwise made in writing by any party pursuant hereto, including but not limited to any representations made herein relating to disclosure or ownership of documents, shall survive the execution and delivery of this Contract and the consummation of the transactions contemplated hereby.

ARTICLE 16 - INDEPENDENT CONTRACTOR RELATIONSHIP

The CONTRACTOR is, and shall be, in the performance of all work services and activities under this Contract, an Independent Contractor, and not an employee, agent or servant of the COUNTY. All persons engaged in any of the work or services performed pursuant to this Contract shall at all times, and in all places, be subject to the CONTRACTOR'S sole direction, supervision, and control. The CONTRACTOR shall exercise control over the means and manner in which it and its employees perform the work, and in all respects the CONTRACTOR'S relationship and the relationship of its employees to the COUNTY shall be that of an Independent Contractor and not as employees or agents of the COUNTY.

The CONTRACTOR does not have the power or authority to bind the COUNTY in any promise, agreement or representation other than as specifically provided for in this Agreement.

ARTICLE 17 - CONTINGENT FEES

The CONTRACTOR warrants that it has not employed or retrained any company or person, other than a bona fide employee working solely for the CONTRACTOR to solicit or secure this Contract and that it has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the CONTRACTOR, any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of this Contract.

ARTICLE 18 - ACCESS AND AUDITS

The CONTRACTOR shall establish and maintain a reasonable accounting system, which enables ready identification of CONTRACTOR'S cost of goods and use of funds. Such accounting system shall also include adequate records and documents to justify all prices for all items invoiced as well as all charges, expenses and costs incurred in providing the goods for at least five (5) years after completion of this contract. The COUNTY or its designee shall have access to such books, records, subcontract(s), financial operations, and documents of the CONTRACTOR or its SUB-CONTRACTORS as required to comply with this section for the purpose of inspection or audit anytime during normal business hours at the CONTRACTOR'S place of business. This right to audit shall include the CONTRACTOR'S SUB-CONTRACTORS used to procure goods or services under the contract with the COUNTY. CONTRACTOR shall ensure the COUNTY has these same rights with SUB-CONTRACTOR(s) and suppliers.

ARTICLE 19 – TERMINATION

A. Termination for Default: The COUNTY may, by written notice to the CONSULTANT, terminate this contract for default in whole or in part (delivery orders, if applicable) if the CONSULTANT fails to:

1. provide products or services that comply with the specifications herein or fails to meet the COUNTY'S performance standards
2. deliver the supplies or to perform the services within the time specified in this contract or any extension.
3. make progress so as to endanger performance of this contract
4. perform any of the other provisions of this contract.

Prior to termination for default, the COUNTY will provide adequate written notice to the CONSULTANT through the Manager, Purchasing and Contracts, affording him/her the opportunity to cure the deficiencies or to submit a specific plan to resolve the deficiencies within ten (10) days (or the period specified in the notice) after receipt of the notice. Failure to adequately cure the deficiency shall result in termination action. Such termination may also result in suspension or debarment of the CONSULTANT in accordance with the County's Procurement Ordinance. The CONSULTANT and its sureties (if any) shall be liable for any damage to the COUNTY resulting from the CONSULTANT's default of the contract. This liability includes any increased costs incurred by the COUNTY in completing contract performance.

In the event of termination by the COUNTY for any cause, the CONSULTANT will have, in no event, any claim against the COUNTY for lost profits or compensation for lost opportunities. After a receipt of a Termination Notice and except as otherwise directed by the COUNTY the CONSULTANT shall:

1. Stop work on the date and to the extent specified.
2. Terminate and settle all orders and subcontracts relating to the performance of the terminated work.
3. Transfer all work in process, completed work, and other materials related to the terminated work as directed by the COUNTY.
4. Continue and complete all parts of that work that have not been terminated.

Neither CONSULTANT nor COUNTY shall be liable, nor may cancel this contract for default, when delays arise out of causes beyond the control of CONSULTANT or COUNTY. Such causes may include but are not restricted to

acts of God, acts of COUNTY in sovereign capacity, fires, floods, lightning strikes, epidemics, quarantine restrictions, strikes, freight embargoes, wars, civil disturbances, work stoppage, power failures, laws, regulations, ordinances, acts or orders of any governmental agency or official thereof, and unusually severe weather. In every case, the delay must be beyond the control of the claiming party. If CONSULTANT is delayed in its performance as a result of the above causes, COUNTY, shall upon written request of CONSULTANT, agree to equitably adjust the provisions of this contract, including price and delivery, as may be affected by such delay. However, this provision shall not be interpreted to limit COUNTY'S right to terminate for convenience.

- B. Termination for Convenience:** The COUNTY, by written notice, may terminate this contract, in whole or in part, when it is in the County's interest. If this contract is terminated, the COUNTY shall be liable only for goods or services delivered and accepted. The COUNTY Notice of Termination shall provide the CONSULTANT thirty (30) days prior notice before it becomes effective. **A termination for convenience may apply to individual delivery orders, purchase orders or to the contract in its entirety.**

ARTICLE 20 - SOURCE AND OBJECT CODE

Upon COUNTY giving notice to CONTRACTOR of Final System Acceptance in writing CONTRACTOR hereby agrees that the object code of the Licensed Software, enhancement or upgrade shall be perpetually licensed to COUNTY. A copy of the complete source code programs of the entire System shall be placed in escrow. COUNTY shall be solely responsible for paying the beneficiary fees which shall be levied annually upon beneficiaries by Escrow Agent. Fee will be included in the Software Support and Maintenance annual invoice. When CONTRACTOR provides an updated version of the software, CONTRACTOR shall place the latest version of the source code in escrow and notify COUNTY of same. If CONTRACTOR and/or third party providers become insolvent, the Licensed Software in Escrow will be made available to COUNTY immediately upon COUNTY's demand. COUNTY understands and agrees that its right to use the object code will not result in conveyance of title of said object code to COUNTY and all ownership interests and proprietary rights in the said code shall remain vested exclusively in CONTRACTOR. COUNTY's modifications shall not reduce COUNTY's right to use the Licensed Software. Accordingly, all of such object code may not be revealed in whole or in part to any third party or used for any other purpose, including providing support services to any person or entity other than COUNTY's internal users provided, however, third-party contractors may have access to the object code for maintenance, support or outsourcing services if they execute an appropriate nondisclosure agreement to safeguard the object code. The receipt of such object code shall not be construed to enlarge or alter in any way the terms of the license.

- A. Upon COUNTY's installation of any release of the Licensed Software, CONTRACTOR shall at no cost to COUNTY provide updated, executable source code for such release as long as COUNTY continues maintenance services on the System by CONTRACTOR.
- B. COUNTY and CONTRACTOR acknowledge that this section is an agreement supplementary to the licensing provisions, as provided in Section 365(n) of Title 11, United States Code (the "Bankruptcy Code"). CONTRACTOR acknowledges that if CONTRACTOR, as a debtor in possession, or if a trustee in Bankruptcy for CONTRACTOR in a case under the Bankruptcy Code rejects this Contract, COUNTY may elect to retain its rights under this Contract as provided in Section 365(n) of the Bankruptcy Code. Upon written request of COUNTY to CONTRACTOR or the Bankruptcy Trustee, CONTRACTOR or such Bankruptcy Trustee shall not interfere with the rights of COUNTY as provided in this Contract, including the COUNTY's right to use the source code.

ARTICLE 21 – EQUAL OPPORTUNITY

It is hereby declared that equal opportunity and nondiscrimination shall be the County's policy intended to assure equal opportunities to every person, regardless of race, religion, sex, color, age, disability or national origin, in securing or holding employment in a field of work or labor for which the person is qualified, as provided by Section 17-314 of the Orange County Code and the County Administrative Regulations.

Further, the CONSULTANT shall abide by the following provisions:

- A. The CONSULTANT shall represent that the CONSULTANT has adopted and maintains a policy of nondiscrimination as defined by applicable County ordinance throughout the term of this contract.
- B. The CONSULTANT shall allow reasonable access to all business and employment records for the purpose of ascertaining compliance with the non-discrimination provision of the contract.
- C. The provisions of the prime contract shall be incorporate by the CONSULTANT into the contracts of any applicable subcontractors.

ARTICLE 22 - CONTRACT CLAIMS

"Claim" as used in this provision means a written demand or written assertion by one of the contracting parties seeking as a matter of right, the payment of a certain sum of money, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract.

Claims made by a Contractor/Consultant against the County relating to a particular contract shall be submitted to the Purchasing and Contracts Manager in writing clearly labeled "Contract Claim" requesting a final decision. The Contractor also shall provide with the claim a certification as follows: "I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and

belief; that the amount requested accurately reflects the contract adjustment for which the Contractor/Consultant believes the County is liable; and that I am duly authorized to certify the claim on behalf of the Contractor/Consultant.”

Failure to document a claim in this manner shall render the claim null and void. Moreover, no claim shall be accepted after final payment of the contract.

The decision of the Purchasing and Contracts Manager shall be issued in writing and shall be furnished to the Contractor/Consultant. The decision shall state the reasons for the decision reached. The Purchasing and Contracts Manager shall render the final decision within sixty (60) days after receipt of Contractor's/Consultant's written request for a final decision. The Purchasing and Contracts Manager's decision shall be final and conclusive.

The Contractor/Consultant shall proceed diligently with performance of this contract pending final resolution of any request for relief, claim, appeal or action arising under the contract and shall comply with any final decision rendered by the Manager of Purchasing and Contracts.

ARTICLE 23 - MISCELLANEOUS PROVISIONS

- A. Jurisdiction and Venue:** This Agreement, and all actions arising from it, must be governed by, subject to, and construed according to the law of the State of Florida. The CONTRACTOR consents to the personal jurisdiction of the Ninth Circuit Court in Orange County, Florida, for any action arising out of this Agreement.
- B. Force Majeure:** Neither CONTRACTOR nor COUNTY shall be liable, nor may cancel this Contract for default, when delays arise out of causes beyond the control of CONTRACTOR or COUNTY. Such causes may include but are not restricted to acts of God, acts of COUNTY in sovereign capacity, fires, floods, lightning strikes, epidemics, quarantine restrictions, strikes, freight embargoes, wars, civil disturbances, work stoppage, power failures, laws, regulations, ordinances, acts or orders of any governmental agency or official thereof, and unusually severe weather. In every case, the delay must be beyond the control of the claiming party. If CONTRACTOR is delayed in its performance as a result of the above causes, COUNTY shall, upon written request of CONTRACTOR, agree to equitably adjust the provisions of this Contract, including price and delivery, as may be affected by such delay. However, this provision shall not be interpreted to limit COUNTY'S right to terminate for convenience.
- C. Training:** The training of COUNTY personnel in the maintenance and use of the LIMS system as outlined in Exhibit A, Statement of Work, shall be the responsibility of CONTRACTOR.
- D. Assignment:** Neither this Contract nor any interest under it shall be assignable by either party without the prior written consent of the other party, which consent shall not be unreasonably withheld.

- E. Notices:** Any notice or other communication given under this Contract to any party shall be in writing and delivered, mailed or sent by facsimile to the address as set forth herein, and to the attention of the individuals set forth below by mail, or by hand with a signed receipt. Notices are deemed timely upon mailing. Either party may designate by notice the change of address or the person to whom such notices are to be sent.

COUNTY: Johnny Richardson, Manager
Orange County Purchasing and Contracts Division
400 E. South Street, 2nd Floor Telephone: 407-836-3535
Orlando, FL 32801 Fax: 407-836-5899
Johnny.Richardson@ocfl.net

COUNTY: Julie Bortles, Environmental Program Supervisor
Orange County Environmental Protection Division
800 Mercy Drive, Suite 4 Telephone: 407-836-1456
Orlando, FL 32808 Fax: 407-836-1441
Julie.bortles@ocfl.net

CONTRACTOR: Contact Name
Company name
Company address Telephone Number
City, State, Zip Fax Number
Email Address

- F. Entire Contract:** This Contract, including all exhibits hereto, and the rights and liabilities of the parties hereunder shall be construed and governed in accordance with laws of the State of Florida. This Contract, including all exhibits hereto, constitutes the entire understanding of the parties hereto with respect to the subject matter hereto, superseding all negotiations, prior discussions and preliminary agreements.
- G. Amendments:** No amendment to this Contract shall be effective unless it is in writing and signed by duly authorized representatives of each party hereto
- H. Severability:** If any part or parts of this Contract shall be construed to be invalid or otherwise unenforceable, the remaining parts of the Contract shall, nevertheless, remain in full force and effect.
- I. Disputes:** If a dispute arises between COUNTY and CONTRACTOR relating to said Contract, a meeting shall be held promptly between the parties attended by individuals with decision-making authority regarding the dispute, to attempt in good faith to negotiate a resolution of the dispute, including in behalf of the COUNTY, a representative from the County Attorney's Office.
- J. Term:** This Contract shall be effective upon the date written above and shall continue in full force and effect during the warranty period. The performance schedule specified in Exhibit "A", Preliminary Statement of Work, Project Team and Project Schedule Plan, shall begin to run on the effective date of the Contract.

- K. Intellectual Property Infringement:** CONTRACTOR will, at its expense, defend any suit or proceeding brought against COUNTY based on an allegation that the System furnished hereunder constitutes an infringement of any United States patent or copyright if CONTRACTOR is notified promptly in writing and timely given authority, information and assistance for the defense of said suit or proceeding. CONTRACTOR will pay the damages and costs awarded in any suit or proceeding so defended. CONTRACTOR will not be responsible for any settlement of such suit or proceeding made without its prior written consent. In case the System, as a result of any suit or proceeding so defended, is held to constitute infringement or its use by COUNTY is enjoined, CONTRACTOR will, at its option and its expense, either (1) procure for COUNTY the right to continue using said System; (2) replace it with substantially equivalent non-infringing System; (3) modify it so it becomes non-infringing; or (4) as a last resort, remove it and refund an appropriate portion of the purchase price.

The foregoing indemnity does not apply to (a) infringement by a combination of the System with other hardware not furnished hereunder; (b) infringement resulting from changes made to the System by or under the direction of COUNTY for which COUNTY has not given prior notice to and received written approval from CONTRACTOR; and (c) any settlement of a claim, suit or proceeding made without CONTRACTOR's written consent. This paragraph is an exclusive statement of all the duties of the parties relating to patents or copyrights and direct or contributory patent or copyright infringement and of all the remedies of COUNTY relating to any claims, suits or proceedings involving patents or copyrights. Compliance with this Paragraph as provided herein shall constitute fulfillment of all liabilities of CONTRACTOR hereunder with respect to patents or copyrights.

- L. Waiver:** The failure of either party to exercise in any respect any right provided for herein shall not be deemed a waiver of any right hereunder.
- M. Compliance with Laws:** CONTRACTOR shall comply with all federal, state and local laws and ordinances applicable to the implementation but not the functionality of the work or payment for work thereof, and shall not discriminate on the grounds of race, color, religion, gender, or national origin in the performance of work under this Contract.

ARTICLE 24 - INSURANCE REQUIREMENTS:

CONTRACTOR/Agency agrees to maintain on a primary basis and at its sole expense, at all times throughout the duration of this contract the following types of insurance coverage with limits and on forms (including endorsements) as described herein. These requirements, as well as the County's review or acceptance of insurance maintained by CONTRACTOR/Agency is not intended to and shall not in any manner limit or qualify the liabilities or obligations assumed by CONTRACTOR/Agency under this contract.

The CONTRACTOR/Agency shall require and ensure that each of its SUB-CONTRACTORS/CONTRACTORS providing services hereunder (if any) procures and maintains until the completion of their respective services, insurance of the types and to the limits specified herein.

Insurance carriers providing coverage required herein must be licensed to conduct business in the State of Florida and must possess a current A.M. Best's Financial Strength Rating of A- Class VIII or better.

(Note: State licenses can be checked via www.floir.com/companysearch/ and A.M. Best Ratings are available at www.ambest.com)

Required Coverage:

1. **Workers' Compensation** - The CONTRACTOR/Agency shall maintain coverage for its employees with statutory workers' compensation limits, and no less than \$100,000 each incident of bodily injury or disease for Employers' Liability. Said coverage shall include a waiver of subrogation in favor of the County. **Elective exemptions as defined in Florida Statute 440 will be considered on a case-by-case basis. Any CONTRACTOR/Agency using an employee leasing company shall complete the Leased Employee Affidavit (Exhibit A).**
2. **Commercial General Liability** - The CONTRACTOR/Agency shall maintain coverage issued on **the most recent version of the ISO form as filed for use in Florida or its equivalent**, with a limit of liability of not less than \$500,000 per occurrence. CONTRACTOR/Agency further agrees coverage shall not contain any endorsement(s) excluding or limiting Product/Completed Operations, Contractual Liability, or Separation of Insureds. The General Aggregate limit shall either apply separately to this contract or shall be at least twice the required occurrence limit.
3. **Business Automobile Liability** - The CONTRACTOR/Agency shall maintain coverage for all owned; non-owned and hired vehicles issued on **the most recent version of the ISO form as filed for use in Florida or its equivalent**, with limits of not less than \$500,000 per accident. In the event the CONTRACTOR/Agency does not own automobiles the CONTRACTOR/Agency shall maintain coverage for hired and non-owned auto liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

By entering into this contract, CONTRACTOR/Agency agrees to provide a waiver of subrogation in favor of the County for the workers' compensation and a waiver of transfer of rights of recovery in favor of the County for general liability policies as required herein. When required by the insurer or should a policy condition not permit the CONTRACTOR/Agency to enter into a pre-loss agreement to waive subrogation without an endorsement, then CONTRACTOR/Agency agrees to notify the insurer and request the policy be endorsed with a Waiver of Subrogation or a Waiver of Transfer of Rights of Recovery Against Others endorsement.

CONTRACTOR/Agency agrees to endorse the County as an Additional Insured with a CG 20 26 Additional Insured – Designated Person or Organization endorsement, or its equivalent to all commercial general liability policies. The additional insured shall be listed in the name of Orange County Board of County Commissioners.

Any request for an exception to these insurance requirements must be submitted in writing to the County for approval.

Prior to execution and commencement of any operations/services provided under this contract the CONTRACTOR/Agency shall provide the County with current certificates of insurance evidencing all required coverage. **In addition to the certificate(s) of insurance the CONTRACTOR/Agency shall also provide a blanket (Exhibit B) or specific (Exhibit C) Additional Insured Endorsement and all Waiver of Subrogation (Exhibit D) or Waiver of Transfer of Rights of Recovery (Exhibit E) endorsements for each policy as required above.** For continuing service contracts renewal certificates shall be submitted upon request by either the County or its certificate management representative. The certificates shall clearly indicate that the CONTRACTOR/Agency has obtained insurance of the type, amount and classification as required for strict compliance with this insurance section. No material change or cancellation of the insurance shall be effective without thirty (30) days prior written notice to the County. Certificates shall specifically reference the respective contract number.

The certificate holder shall read:

Orange County Board of County Commissioners
Purchasing & Contracts Division
400 E. South Street
Orlando, Florida 32801

ARTICLE 25 - TOBACCO FREE CAMPUS

Effective January 1, 2010, virtually all Orange county operations under the Board of County Commissioners will effectively become tobacco free. This policy shall apply to parking lots, parks, break areas and worksites. It is also applicable to contractors and their personnel during contract performance on county-owned property. Tobacco is defined as tobacco products including, but not limited to, cigars, cigarettes, pipes, chewing tobacco and snuff. Failure to abide by this policy may result in civil penalties levied under Chapter 386, Florida Statutes and/or contract enforcement remedies.

ARTICLE 26 – ADDENDA

All requirements contained in any addenda to the solicitation for this procurement are part of and hereby incorporated into this contract.

IN WITNESS WHEREOF the parties have executed this Contract to be effective on the date as set forth above. The Contract consists of the Articles and the following exhibits annexed hereto and any amendments thereto:

Statement of Work (Exhibit A)
Functional Requirements (Exhibit B)
Project Schedule/Plan (Exhibit C)
Project Milestone/Payment Matrix (Exhibit D)
COTS License Agreement (Exhibit E)

ORANGE COUNTY, FLORIDA

CONTRACTOR:

By: _____
Johnny M. Richardson, CPPO, CACM
Manager, Purchasing & Contracts Division

By: _____

Date: _____

Date: _____

EXHIBIT F

Method_Parameter

ID	Parameter dB	Method dB	Storet Proc Methd	Storet Proc Source	Storet Prep Methd	Storet Prep Source	Action	Effective Date	Exclusive
1	1 (4-Chloro-2-methylphenoxy)acetic acid	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
2	1,1,1,2-Tetrachloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
3	1,1,1,1-Trichloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
4	1,1,2,2-Tetrachloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
5	1,1,2-Trichloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
6	1,1-Dichloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
7	1,1-Dichloroethylene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
8	1,1-Dichloropropylene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
9	1,2,3-Trichlorobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
10	1,2,3-Trichloropropane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
11	1,2,4-Trichlorobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
12	1,2,4-Trimethylbenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
13	1,2-Dibromo-3-chloropropane	EPA504.1	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
14	1,2-Dibromo-3-chloropropane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
15	1,2-Dichloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
16	1,2-Dichloropropane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
17	1,3,5-Trimethylbenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
18	1,3-Dichloropropane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
19	1-Chlorobutane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
20	2-(2,4,5-trichlorophenoxy)propionic acid (aka Silvex)	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
21	2,2-Dichloropropane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
22	2,4,5-T	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
23	2,4,5-TP (Silvex)	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
24	2,4-D	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
25	2,4-DB	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
26	2-Butanone	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
27	2-Chloroethyl vinyl ether	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
28	2-Hexanone	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
29	2-Nitropropane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
30	3,5-Dichlorobenzoic acid	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
31	4-Isopropyltoluene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
32	4-Methyl-2-pentanone	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
33	4-Nitrophenol	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
34	5-Hydroxydicamba	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
35	Acetone	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		
36	Acetonitrile	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve		

Method_Parameter

37 ! Acifluorfen	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
38 ! Acrolein	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
39 ! Acrylonitrile	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
40 ! Allyl chloride	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
41 ! Atrazine	EPA525.2	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
42 ! Bentazon	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
43 ! Bromobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
44 ! Bromochloromethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
45 ! Bromodichloromethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
46 ! Bromoform	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
47 ! Bromomethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
48 ! Butyl benzyl phthalate	EPA8270	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
49 ! Carbon disulfide	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
50 ! Carbon tetrachloride	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
51 ! Chloramben	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
52 ! Chloroacetoneitrile	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
53 ! Chloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
54 ! Chloroform	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
55 ! Chloromethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
56 ! Chloroprene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
57 ! cis-1,2-Dichloroethylene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
58 ! cis-1,3-Dichloropropene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
59 ! Dalapon	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
60 ! Dibromochloromethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
61 ! Dibromomethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
62 ! Dicamba	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
63 ! Dichlorodifluoromethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
64 ! Dichloromethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
65 ! Dichlorprop	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
66 ! Diethyl ether	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
67 ! Diethyl phthalate	EPA8270	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
68 ! Dimethyl phthalate	EPA8270	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
69 ! Di-n-butyl phthalate	EPA8270	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
70 ! Di-n-octyl phthalate	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
71 ! Dinoseb	EPA549.2	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
72 ! Diquat	EPA548.1	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
73 ! Endothall		Not STORET	Not STORET	Not STORET	Not STORET	Preserve

Method_Parameter

74 ! Ethyl methacrylate	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
75 ! Ethylbenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
76 ! Ethylene dibromide	EPA504.1	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
77 ! Ethylene dibromide	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
78 ! Glyphosate	EPA547	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
79 ! Hexachlorobutadiene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
80 ! Hexachloroethane	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
81 ! Isobutyl alcohol	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
82 ! Isopropylbenzene (Cumene)	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
83 ! MBAS	EPA425.1	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
84 ! m-Dichlorobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
85 ! Methacrylonitrile	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
86 ! Methyl acrylate	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
87 ! Methyl iodide	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
88 ! Methyl methacrylate	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
89 ! Methyl-tert-butyl-ether	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
90 ! Monochlorobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
91 ! Naphthalene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
92 ! n-Butylbenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
93 ! Nitrobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
94 ! n-Propylbenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
95 ! o-Chlorotoluene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
96 ! o-Dichlorobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
97 ! para-Dichlorobenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
98 ! Paraquat	EPA549.2	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
99 ! p-Chlorotoluene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
100 ! Pentachlorophenol	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
101 ! Picloram	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
102 ! Propionitrile	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
103 ! sec-Butylbenzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
104 ! Silica as SiO2	SM4500SIF	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
105 ! Styrene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
106 ! Tetrachloroterephthalic acid	EPA8151	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
107 ! trans-1,2-Dichloroethylene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
108 ! trans-1,3-Dichloropropene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
109 ! trans-1,4-Dichloro-2-butene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
110 ! Trichloroethylene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve

Method_Parameter

148 Benzene	EPA524.2	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
149 Benzene	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
150 Benzene	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
151 Beryllium	SM3113B	3113-B	APHA	SM3113B	21FLORAN	Preserve_Da 9/15/2007 1/2/2007
152 Beryllium	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve_Da 1/2/2007
153 Beryllium	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
154 Beryllium	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
155 Biochemical oxygen demand (BOD)	SM5210B	5210-B	APHA	SM5210B	21FLORAN	Preserve
156 Biochemical oxygen demand (BOD)	EPA405.1	405.1	USEPA	EPA405.1	21FLORAN	xDefault
157 Bis(2-ethylhexyl)phthalate	EPA525.2	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
158 Bis(2-ethylhexyl)phthalate	EPA8270	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
159 Boron	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
160 Boron	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
161 Bromodichloromethane	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
162 Bromoform	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
163 Bromomethane	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
164 Cadmium	EPA200.9	200.9	USEPA	EPA200.9	21FLORAN	Preserve
165 Cadmium	EPA7131	7131A	USEPA	EPA7060	21FLORAN	Preserve_Da 9/15/2004
166 Cadmium	SM3113B	3113-B	APHA	SM3113B	21FLORAN	Preserve_Da 9/15/2007 1/2/2007
167 Cadmium	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve_Da 1/2/2007
168 Cadmium	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
169 Cadmium	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
170 Calcium	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
171 Calcium	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
172 Calcium (Filtered)	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
173 Carbon tetrachloride	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
174 Carotenoids	SM10200H	10200-H	APHA	SM10200H	21FLORAN	xDefault
175 Chemical oxygen demand (COD)	SM5220B	5220-B	APHA	SM5220B	21FLORAN	xDefault
176 Chloride	SM4500CLE	4500-CL-(E)	APHA	SM4500CLE	21FLORAN	Preserve
177 Chloride	EPA300.0	300.0	USEPA	EPA300.0	21FLORAN	Preserve
178 Chloride	EPA325.3	325.3	USEPA	EPA325.3	21FLORAN	Preserve_Da 1/1/1900 1/1/2001
179 Chloride	EPA325.2	325.2	USEPA	EPA325.2	21FLORAN	xDefault
180 CHLORO.COCC.	SM10200F	10200-F	APHA	SM10200F	21FLORAN	xDefault
181 CHLORO.FIL.	SM10200F	10200-F	APHA	SM10200F	21FLORAN	xDefault
182 CHLORO.FLAG.	SM10200F	10200-F	APHA	SM10200F	21FLORAN	xDefault
183 Chloroethane	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
184 Chloroform	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve

	Method_Parameter					
222 Hardness, Ca + Mg	SM2340B	SM2340B	21FLORAN	SM2340B	21FLORAN	Preserve_Da 9/15/2004
223 Hardness, Ca + Mg	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
224 Hardness, carbonate	SM2340B	SM2340B	21FLORAN	SM2340B	21FLORAN	Preserve_Da 9/15/2004
225 Hardness, carbonate	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
226 Hardness, Mg	SM2340B	SM2340B	21FLORAN	SM2340B	21FLORAN	Preserve_Da 9/15/2004
227 Hardness, Mg	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
228 Heterotrophic Plate Count	SM9222-C	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
229 Iron	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
230 Iron	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Preserve
231 Iron	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
232 Lead	EPA7421	7421	USEPA	EPA7421	21FLORAN	Preserve
233 Lead	EPA204.2	204.2	USEPA	EPA204.2	21FLORAN	Preserve
234 Lead	EPA200.9	200.9	USEPA	EPA200.9	21FLORAN	Preserve
235 Lead	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
236 Lead	SM3113B	3113-B	APHA	SM3113B	21FLORAN	Preserve
237 Lead	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
238 Lead	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
239 Lead (Dissolved)	EPA200.9	200.9	USEPA	EPA200.9	21FLORAN	Preserve
240 Lead (Dissolved)	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
241 Lead (Dissolved)	EPA7421	7421	USEPA	EPA7421	21FLORAN	Preserve
242 Lead (Dissolved)	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
243 Lead (Dissolved)	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
244 m,p-Xylene	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
245 Magnesium	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
246 Magnesium	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
247 Magnesium (Filtered)	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
248 Manganese	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
249 Manganese	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Preserve
250 Manganese	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
251 MBAS	SM5540C	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
252 m-Dichlorobenzene	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
253 Mercury	EPA7470	7470A	USEPA	EPA7470	21FLORAN	Preserve
254 Mercury	EPA7471	7471A	USEPA	EPA7471	21FLORAN	Preserve
255 Mercury	EPA245.1	245.1	USEPA	EPA245.1	21FLORAN	xDefault
256 Methyl-tert-butyl-ether	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
257 Molybdenum	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
258 Molybdenum	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix

Method	Method_Parameter	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
259 Molybdenum	USEPA	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
260 Monochlorobenzene	Not STORET	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
261 Nickel	USEPA	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
262 Nickel	USEPA	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
263 Nickel	USEPA	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
264 Nitrogen, Kjeldahl	351.2	351.2	USEPA	EPA351.2	21FLORAN	xDefault
265 Nitrogen, Nitrate (NO3)	353.2	353.2	USEPA	EPA353.2	21FLORAN	xDefault
266 Nitrogen, Nitrite (NO2)	353.2	353.2	USEPA	EPA353.2	21FLORAN	xDefault
267 Nitrogen, Nitrite (NO2) + Nitrate (NO3)	353.2	353.2	USEPA	EPA353.2	21FLORAN	xDefault
268 Nitrogen, organic	350.1	350.1	USEPA	EPA350.1	21FLORAN	Preserve
269 Nitrogen, organic	351.2	351.2	USEPA	EPA351.2	21FLORAN	xDefault
270 o-Dichlorobenzene	Not STORET	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
271 Oil and Grease	1664	1664	USEPA	EPA1664	21FLORAN	xDefault
272 o-Xylene	Not STORET	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
273 P.ABRK.	10200-F	10200-F	APHA	SM10200F	21FLORAN	xDefault
274 P.AERU.	10200-F	10200-F	APHA	SM10200F	21FLORAN	xDefault
275 para-Dichlorobenzene	Not STORET	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
276 Petroleum hydrocarbons (unspecified mix)	Not STORET	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
277 pH	150.1	150.1	USEPA	EPA150.1	21FLORAN	Date_Depen ^h 1/1/1900
278 pH	FT1100	FT1100	21FLORAN	FT1100	21FLORAN	Date_Depen ^h 1/1/2010
279 pH (LAB)	EPA150.1	Not STORET	Not STORET	Not STORET	Not STORET	xDefault
280 Pheophytin-a	SM10200H	10200-H	APHA	SM10200H	21FLORAN	xDefault
281 Phosphorus as P	EPA365.4	365.4	USEPA	EPA365.4	21FLORAN	Preserve
282 Phosphorus as P	EPA365.1	365.1	USEPA	EPA365.1	21FLORAN	xDefault
283 Phosphorus as P (Filtered)	EPA365.1	365.1	USEPA	EPA365.1	21FLORAN	xDefault
284 Phosphorus, orthophosphate as P	EPA365.1	365.1	USEPA	EPA365.1	21FLORAN	xDefault
285 Potassium	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
286 Potassium	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
287 Potassium (Filtered)	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
288 Sample Depth	EPD100.1	EPD100.1	21FLORAN	EPD100.1	21FLORAN	xDefault
289 Selenium	EPA270.2	270.2	USEPA	EPA270.2	21FLORAN	Preserve
290 Selenium	EPA7740	7740	USEPA	EPA7740	21FLORAN	Preserve
291 Selenium	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
292 Selenium	EPA200.9	200.9	USEPA	EPA200.9	21FLORAN	Preserve
293 Selenium	SM3113B	3113-B	APHA	SM3113B	21FLORAN	Preserve
294 Selenium	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
295 Selenium	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault

Method	Method_Parameter	USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
296 Silicon		USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
297 Silicon		USEPA	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
298 Silicon (Filtered)		USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
299 Silver		USEPA	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
300 Silver		APHA	SM3113B	3113-B	APHA	SM3113B	21FLORAN	Preserve_Da 9/15/2004
301 Silver		USEPA	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
302 Silver		USEPA	EPA7761	7761	USEPA	EPA7761	21FLORAN	Solid Matrix
303 Silver		USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
304 Sodium		USEPA	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
305 Sodium		USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
306 Sodium (Filtered)		USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
307 Specific conductance		USEPA	EPA120.1	120.1	USEPA	EPA120.1	21FLORAN	Date_Depen 1/1/190C 1/1/2010
308 Specific conductance		USEPA	FT1200	FT1200	USEPA	FT1200	21FLORAN	Date_Depen 1/1/2010
309 Specific conductance (LAB)		Not STORET	Not STORET	Not STORET	Not STORET	Not STORET	Not STORET	xDefault
310 Sulfate		USEPA	EPA120.1	300(B)	USEPA	EPA300.0	21FLORAN	Preserve
311 Sulfate		USEPA	EPA375.4	375.4	USEPA	EPA375.4	21FLORAN	xDefault
312 Temperature, water		USEPA	EPA170.1	170.1	USEPA	EPA170.1	21FLORAN	Date_Depen 1/1/190C 1/1/2010
313 Temperature, water		USEPA	FT1400	FT1400	USEPA	FT1400	21FLORAN	Date_Depen 1/1/2010
314 Temperature, water (LAB)		Not STORET	EPA170.1	Not STORET	Not STORET	Not STORET	Not STORET	xDefault
315 tert-Butylbenzene		USEPA	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
316 Tetrachloroethylene		USEPA	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
317 Tetrachloroethylene		USEPA	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
318 Thallium		USEPA	EPA7841	7841	USEPA	EPA7841	21FLORAN	Preserve
319 Thallium		USEPA	EPA200.8	200.8(W)	USEPA	EPA200.8	21FLORAN	Preserve
320 Thallium		USEPA	EPA279.2	279.2	USEPA	EPA279.2	21FLORAN	Preserve
321 Thallium		USEPA	EPA200.9	200.9	USEPA	EPA200.9	21FLORAN	Preserve
322 Thallium		USEPA	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
323 Thallium		USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
324 Tin		USEPA	EPA6010	6010B	USEPA	EPA6010	21FLORAN	Solid Matrix
325 Tin		USEPA	EPA200.7	200.7(W)	USEPA	EPA200.7	21FLORAN	xDefault
326 TL EUGLEN.		APHA	SM10200F	10200-F	APHA	SM10200F	21FLORAN	xDefault
327 Toluene		Not STORET	EPA624	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
328 Toluene		USEPA	EPA8260	Not STORET	Not STORET	Not STORET	Not STORET	Preserve
329 Total Coliform		APHA	SM9222B	9222-B	APHA	SM9222B	21FLORAN	Date_Depen 1/1/190C 1/1/2010
330 Total Dissolved Solids (TDS)		APHA	SM2540C	2540-C	APHA	SM2540C	21FLORAN	Preserve
331 Total Dissolved Solids (TDS)		USEPA	EPA160.1	160.1	USEPA	EPA160.1	21FLORAN	xDefault
332 Total Nitrogen		USEPA	EPA353.2	353.2	USEPA	EPA353.2	21FLORAN	Preserve

ActivityID	StationID	StationName	ActivityType	SampleDate	SampleTime	WONumber	Characteristic	CharacteristicUo	ResultValue	Val
199839842	BC1	Anderson	Sample	3/26/1998			Alkalinity	mg/l	38.5	
199839842	BC1	Anderson	Sample	3/26/1998			Biochemical oxygen demand	mg/L	2	U
199839842	BC1	Anderson	Sample	3/26/1998			Chloride	mg/L	26.6	
199839842	BC1	Anderson	Sample	3/26/1998			CHLORO. COCC.	# / mL	300	
199839842	BC1	Anderson	Sample	3/26/1998			Cobalt	mg/L	0.01	U
199839842	BC1	Anderson	Sample	3/26/1998			Copper	ug/L	0.0009	
199839842	BC1	Anderson	Sample	3/26/1998			Mercury	ug/Kg DryWt.	0.2	U
199839842	BC1	Anderson	Msr/Obs	3/26/1998			Sample Depth	meters	0.5	
199839842	BC1	Anderson	Sample	3/26/1998			Sulfate	mg/L	31.4	
199839842	BC1	Anderson	Sample	3/26/1998			Total Dissolved Solids (TDS)	mg/L	148	
199839842	BC1	Anderson	Sample	3/26/1998			Total Solids (TS)	mg/L	186	
199839842	BC1	Anderson	Sample	3/26/1998			Total Suspended Solids (TS)		6	
199839842	BC1	Anderson	Sample	3/26/1998			Turbidity	NTU	1.9	
199839842	BC1	Anderson	Sample	3/26/1998			Zinc	mg/l	0.015	U

The screenshot shows the 'Export Query' dialog box in the STORET application. The dialog is titled 'Export Query - _Frm_Qry_FormSelect' and has a standard Windows XP-style interface. The 'Save in' section shows the file will be saved to 'My Documents'. The file name is '_Frm_Qry_FormSelect'. The 'Save as type' dropdown is open, showing 'Microsoft Excel 97-2003 (*.xls)' selected. The 'Save' button is highlighted. The background shows the STORET application window with various tabs and data fields.

Water Quality Database v. 1.5.3.1 - [Get Sample Data]

File Edit View Insert Format Records Tools Window Help Adobe PDF



Help Me With This Form

Util: 06/28/2010

Lab ID:

WO (LIMS):

Sample Date m/d/yyyy

Start

Stop

Presentation/Quantity

☒ Simple Query

☐ All Fields

☐ For Editing

☐ Date Crosstab*

☐ Add Count of Characteristics

☐ Validate Against Historical Range

Get Data

* not all options are available

Select DataSet

☒ Present 1998-2010

☐ Historical 1964-1997

Activity Type

☒ Sample and Msr/Obs Data

☐ Lab and/or Field Duplicate

☐ No Lab DUP (STORET)

☐ ALL Data*

*QC Data in QC Database

Original Data Source

☒ All Data Sources

☐ Specific Data Source

calculated

current

excel

hand_entered

hist

lims

Location

☒ All Locations

☐ Select Location

Clear

☐ Type Location

Station IDs (comma separated):

☒ or

☐ and

Contains (LIKE statement)

Does not contain (NOT LIKE statement)

☒ Allow LIKE statements to search Station Names

StationID	StationName	WBID
A0	East Lake Tohopekaliga (1 mile out fr	
A03	East Lake Toho	3172
A1	Alden	
A10	Dillard	
A11	Eagle	
A12	Errol	

☒ Order by ID

☐ Order by Name

☐ Order by WBID

Characteristics

☒ All Characteristics

☐ Select Characteristics

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethylene
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropylene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene

☐ Metals

☐ Algae

☐ Nutrients

☐ Field Readings

☐ Chlorophyll

☐ Wet Chemistry

☐ Bacteria

☐ Organics

☐ Temperature

Clear All

Get TSI

☒ By Year

☐ By Year with Slope/R-Squared Data (may take a few minutes)

☐ By Sample Date

☐ Include AAL

Non-STORET Restrictions ☐

☐ Restrict After Date Added to DB

Export to STORET ☐

STORET Upload (Import Data)

☐ Restrict After Date ADDED

EXHIBIT H



Orange County Environmental Protection Division
800 Mercy Drive, Suite 4
Orlando, FL 32808

Phone: 407-836-1400
Fax: 407-836-1499

Work Order: 200602044

Report Date: Feb 16, 2011

RE: Work Order: 200602044

Enclosed are the analytical results for sample(s) received by the laboratory on 2/28/2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julie Bortles
Orange County Environmental Protection Division
julie.bortles@ocfl.net
Environmental Program Supervisor

DRAFT

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REPORT OF LABORATORY ANALYSIS LAB ID: E43639

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800 Mercy Drive, Suite 4
Orlando, FL 32808

Phone: 407-836-1400
Fax: 407-836-1499

Work Order: 200602044

Report Date: Feb 16, 2011

Sample Summary

<i>Activity ID</i>	<i>Sample ID</i>	<i>Station ID</i>	<i>Matrix</i>	<i>Date Collected</i>	<i>Date Received</i>
20060204401	P25195-1	D02	Surface Water	2/27/2006 9:10:00 AM	2/28/2006 10:10:00 AM
20060204402	P25195-2	D03	Surface Water	2/27/2006 10:05:00 AM	2/28/2006 10:10:00 AM
20060204403	P25195-3	E02	Surface Water	2/27/2006 10:50:00 AM	2/28/2006 10:10:00 AM
20060204404	P25195-4	E04	Surface Water	2/27/2006 11:30:00 AM	2/28/2006 10:10:00 AM
20060204405	P25195-5	FCEB	Surface Water	2/27/2006 9:35:00 AM	2/28/2006 10:10:00 AM

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Work Order: 200602044

Report Date: Feb 16, 2011

Sample Analyte Count

<i>Activity ID</i>	<i>Sample ID</i>	<i>Method</i>	<i>Analytes Reported</i>
20060204401	P25195-1	Field Readings (L&S)	7
		SM10200H	6
20060204402	P25195-2	Field Readings (L&S)	7
		SM10200H	6
20060204403	P25195-3	Field Readings (L&S)	7
		SM10200H	6
20060204404	P25195-4	Field Readings (L&S)	7
		SM10200H	6
20060204405	P25195-5	SM10200H	6

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REPORT OF LABORATORY ANALYSIS **LAB ID: E43639**

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Work Order: 200602044

Report Date: Feb 16, 2011

Analytical Results

Activity ID: 20060204401

Date Sampled: 2/27/2006 9:10:00 AM

Matrix: Surface Water

Sample ID: P25195-1

Date Received: 2/28/2006 10:10:00 AM

Characteristics	Results	Units	MDL	Analyzed	Qualifiers
<i>Field Readings (L&S)</i>					
Depth, bottom	2.75	meters	0.01	2/27/2006 9:10:00 AM	
Depth, Secchi Disk Depth	0.5	meters	0.01	2/27/2006 9:10:00 AM	
Dissolved oxygen (DO)	8.7	mg/L	0.01	2/27/2006 9:10:00 AM	
pH	7.52	None	0.01	2/27/2006 9:10:00 AM	
Sample Depth	0.5	meters	0.01	2/27/2006 9:10:00 AM	
Specific conductance	128	umhos/cm	0.01	2/27/2006 9:10:00 AM	
Temperature, water	18.18	C	0.01	2/27/2006 9:10:00 AM	
<i>SM10200H</i>					
Carotenoids	8.3	ug/L	0.1	3/1/2006 1:47:00 PM	
Chlorophyll a, corrected	19.3	ug/L	0.8	3/1/2006 1:47:00 PM	
Chlorophyll a, uncorrected	24	ug/L	0.8	3/1/2006 1:47:00 PM	
Chlorophyll b	0.8	ug/L	0.8	3/1/2006 1:47:00 PM	U
Chlorophyll c	1.6	ug/L	0.8	3/1/2006 1:47:00 PM	I
Pheophytin-a	6.6	ug/L	0.8	3/1/2006 1:47:00 PM	

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Work Order: 200602044

Report Date: Feb 16, 2011

Analytical Results

Activity ID: 20060204402

Date Sampled: 2/27/2006 10:05:00 AM

Matrix: Surface Water

Sample ID: P25195-2

Date Received: 2/28/2006 10:10:00 AM

Characteristics	Results	Units	MDL	Analyzed	Qualifiers
<i>Field Readings (L&S)</i>					
Depth, bottom	1.45	meters	0.01	2/27/2006 10:05:00 AM	
Depth, Secchi Disk Depth	0.45	meters	0.01	2/27/2006 10:05:00 AM	
Dissolved oxygen (DO)	9.33	mg/L	0.01	2/27/2006 10:05:00 AM	
pH	6.96	None	0.01	2/27/2006 10:05:00 AM	
Sample Depth	0.5	meters	0.01	2/27/2006 10:05:00 AM	
Specific conductance	123	umhos/cm	0.01	2/27/2006 10:05:00 AM	
Temperature, water	17.18	C	0.01	2/27/2006 10:05:00 AM	
<i>SM10200H</i>					
Carotenoids	7.4	ug/L	0.1	3/1/2006 1:47:00 PM	
Chlorophyll a, corrected	23.7	ug/L	0.8	3/1/2006 1:47:00 PM	
Chlorophyll a, uncorrected	27.1	ug/L	0.8	3/1/2006 1:47:00 PM	
Chlorophyll b	0.8	ug/L	0.8	3/1/2006 1:47:00 PM	U
Chlorophyll c	0.8	ug/L	0.8	3/1/2006 1:47:00 PM	U
Pheophytin-a	4	ug/L	0.8	3/1/2006 1:47:00 PM	

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Work Order: 200602044

Report Date: Feb 16, 2011

Analytical Results

Activity ID: 20060204403

Date Sampled: 2/27/2006 10:50:00 AM

Matrix: Surface Water

Sample ID: P25195-3

Date Received: 2/28/2006 10:10:00 AM

Characteristics	Results	Units	MDL	Analyzed	Qualifiers
<i>Field Readings (L&S)</i>					
Depth, bottom	3	meters	0.01	2/27/2006 10:50:00 AM	
Depth, Secchi Disk Depth	0.4	meters	0.01	2/27/2006 10:50:00 AM	
Dissolved oxygen (DO)	8.97	mg/L	0.01	2/27/2006 10:50:00 AM	
pH	6.92	None	0.01	2/27/2006 10:50:00 AM	
Sample Depth	0.5	meters	0.01	2/27/2006 10:50:00 AM	
Specific conductance	111	umhos/cm	0.01	2/27/2006 10:50:00 AM	
Temperature, water	18.32	C	0.01	2/27/2006 10:50:00 AM	
<i>SM10200H</i>					
Carotenoids	4.4	ug/L	0.1	3/1/2006 1:47:00 PM	
Chlorophyll a, corrected	4.9	ug/L	0.8	3/1/2006 1:47:00 PM	
Chlorophyll a, uncorrected	9.4	ug/L	0.8	3/1/2006 1:47:00 PM	
Chlorophyll b	0.8	ug/L	0.8	3/1/2006 1:47:00 PM	U
Chlorophyll c	1.1	ug/L	0.8	3/1/2006 1:47:00 PM	I
Pheophytin-a	7	ug/L	0.8	3/1/2006 1:47:00 PM	

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REPORT OF LABORATORY ANALYSIS LAB ID: E43639

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Orange County Environmental Protection Division
800 Mercy Drive, Suite 4
Orlando, FL 32808

Phone: 407-836-1400
Fax: 407-836-1499

Work Order: 200602044

Report Date: Feb 16, 2011

Analytical Results

Activity ID: 20060204404

Date Sampled: 2/27/2006 11:30:00 AM

Matrix: Surface Water

Sample ID: P25195-4

Date Received: 2/28/2006 10:10:00 AM

Characteristics	Results	Units	MDL	Analyzed	Qualifiers
<i>Field Readings (L&S)</i>					
Depth, bottom	3.7	meters	0.01	2/27/2006 11:30:00 AM	
Depth, Secchi Disk Depth	0.45	meters	0.01	2/27/2006 11:30:00 AM	
Dissolved oxygen (DO)	9.14	mg/L	0.01	2/27/2006 11:30:00 AM	
pH	6.94	None	0.01	2/27/2006 11:30:00 AM	
Sample Depth	0.5	meters	0.01	2/27/2006 11:30:00 AM	
Specific conductance	102	umhos/cm	0.01	2/27/2006 11:30:00 AM	
Temperature, water	18.46	C	0.01	2/27/2006 11:30:00 AM	
<i>SM10200H</i>					
Carotenoids	0	ug/L	0.1	3/1/2006 1:47:00 PM	O
Chlorophyll a, corrected	0	ug/L	0.8	3/1/2006 1:47:00 PM	O
Chlorophyll a, uncorrected	0	ug/L	0.8	3/1/2006 1:47:00 PM	O
Chlorophyll b	0	ug/L	0.8	3/1/2006 1:47:00 PM	O
Chlorophyll c	0	ug/L	0.8	3/1/2006 1:47:00 PM	O
Pheophytin-a	0	ug/L	0.8	3/1/2006 1:47:00 PM	O

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Work Order: 200602044

Report Date: Feb 16, 2011

Analytical Results Qualifiers

Value Qualifiers

- I The reported value is between the laboratory method limit and the laboratory practical quantitation limit.
- O Sampled, but analysis lost or not performed. If reporting data to STORET, a numerical value must be entered. Such values are not meaningful and shall not be used.
- U Indicates that the compound was analyzed for but not detected.

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Work Order: 200602044

Report Date: Feb 16, 2011

Quality Control Data

Associated Activity IDs: 20060204401, 20060204402, 20060204403, 20060204404, 20060204405

Ending Blank

Characteristic	Units	Result	Qualifiers	MDL	Blank ID
Carotenoids	ug/L	0.1	U	0.1	6799
Chlorophyll a, corrected	ug/L	0.8	U	1.15	6799
Chlorophyll a, uncorrected	ug/L	0.8	U	1.15	6799
Chlorophyll b	ug/L	0.8	U	1.15	6799
Chlorophyll c	ug/L	0.8	U	1.15	6799
Pheophytin-a	ug/L	0.8	U	1.15	6799

Sample Duplicate 6797

Characteristic	Units	20060204403 Result	Dup Result	RPD	Max RPD
Carotenoids	ug/L	4.4	7	45.6	13.3
Chlorophyll a, corrected	ug/L	4.9	10.7	74.4	31
Chlorophyll a, uncorrected	ug/L	9.4	16.6	55.4	13.9
Chlorophyll b	ug/L	0.8	0.8	0	85.7
Chlorophyll c	ug/L	1.1	1.3	16.7	76.9
Pheophytin-a	ug/L	7	9.1	26.1	28.6

Statement of uncertainty or any other quality control data is available upon request.

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Orlando, FL 32808

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Work Order: 200602044

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Quality Control Data Qualifiers

U

Indicates that the compound was analyzed for but not detected.

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Work Order: 200602044

Report Date: Feb 16, 2011

Quality Control Data Cross Reference Table

<i>ActivityID</i>	<i>SampleID_L</i>	<i>QC Method</i>	<i>Analytical Method</i>	<i>Analytical Batch</i>
20060204401	P25195-1	SM10200H	SM10200H	1750
20060204402	P25195-2	SM10200H	SM10200H	1750
20060204403	P25195-3	SM10200H	SM10200H	1750
20060204404	P25195-4	SM10200H	SM10200H	1750
20060204405	P25195-5	SM10200H	SM10200H	1750
20060204401	P25195-1	Field Readings (L&S)	Field Readings (L&S)	1721
20060204402	P25195-2	Field Readings (L&S)	Field Readings (L&S)	1721
20060204403	P25195-3	Field Readings (L&S)	Field Readings (L&S)	1721
20060204404	P25195-4	Field Readings (L&S)	Field Readings (L&S)	1721

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Orange County Environmental Protection Division
Water Quality Management Laboratory
800 Mercy Dr. Suite 4
Orlando, FL 32808
407-836-1400

Page 2 of 2

Date: 1-4-11

Project: 1-2-C

Fuel Powered Vehicle Used: Yes ☒ No ☐

***Please mark N/A if not used during sampling.

Bottle Type	Number of Bottles	Lot	Equipment Type	ID #	Lot
Certified Containers			Reusable Containers		
Gallon White Opaque	N/A	na	Pump Tubing	D	C142923
Half Gallon Clear		702207000007 6/6/10	Cooler	108, #3	
1L (Squat Quart)	6	601003300001 10/20/09	Bucket	22	
250 ml clear	31	1028687	DI Carboy	9	
Whirlpac Bags (Bacteria)	5	H1381495518430	Filters:		
Amber Plastic 1L	6	062110-3Y	Disposable Filters		VJR166
60 ml glass vial (w septa)			Preservatives:		
60 ml amber plastic	N/A		HNO ₃	M-516	H14024
40 ml vial (brodilicate)			H ₂ SO ₄	M-427	E40026
4 oz. Glass wide mouth			HCl	M-467	200501801
4L HDP	N/A				
125 ml. Amber glass	N/A				

I certify that I have used the precleaned equipment listed above for the samples obtained for this work order.

M. Thomas

Date / Time: 1-4-11

Matrix Codes:

Aqueous (A) ☒

Solid (S)

Other (O)

Weather Condition Codes:

1 Clear Skies

2 Slight Overcast

3 Medium Overcast

4 Very Overcast

Precipitation:

1 None ☒

2 Drizzle

3 Intermittent Rain

4 Steady Rain

Wind Speed:

1 None ☒

2 up to 10 mph

3 10-20 mph

4 20-30 mph

5 30-40 mph

Wave Conditions:

1 Calm ☒

2 Ripple

3 Waves

4 White Caps

Percent Cloud Cover:

5%

Algae/Vegetation:

#2) Botryococcus? @ Lake's edge
#3) Mod. heavy Microcystis on surface
BC 1 - Heavy microcystis bloom
lot #s as of 12/30/2010

DCS-03-2008-03

#5) Heavy (coll. damaged) hydrilla in shallow water

EXHIBIT J

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PROCEDURE ID	NAME	SOURCE ACR
B2520	Zooplankton- Gravimetric Method for Biomass Determination	USDOI/USGS
B2501	Zooplankton Enumeration- Counting Cell Method	USDOI/USGS
10200-G	Zooplankton Counting Techniques	APHA
PMD-ZIR	Ziram by UV Spectroscopy	USEPA
PMD-ZN-T(TITR	Zinc Phosphide by Titration	USEPA
PMD-ZN-T(GC)	Zinc Phosphide by GC/FPD	USEPA
7502	Zinc Oxide by X-Ray Powder Diffraction	NIOSH
3500-ZN(F)	Zinc in Water by Spectrophotometry- Dithizone Method II	APHA
3500-ZN(E)	Zinc in Water by Spectrophotometry- Dithizone Method	APHA
3500-ZN(D)	Zinc in Water by Spectrophotometry	APHA
3500-ZN(C)	Zinc in Water by ICP	APHA
I1901	Zinc in Water by GFAA	USDOI/USGS
3500-ZN(B)	Zinc in Water by FLAA	APHA
D1691(A)	Zinc in Water By FLAA	ASTM
I1900(W)	Zinc in Water by FLAA	USDOI/USGS
D1691(B)	Zinc in Water by Chelation and FLAA	ASTM
8009	Zinc in Water	HACH
I1900(S)	Zinc in Bottom Material by FLAA	USDOI/USGS
289.2	Zinc by GFAA	USEPA
7951	Zinc by GFAA	USEPA
289.2_M	Zinc by GFAA	USEPA
289.1	Zinc by FLAA	USEPA
7950	Zinc by FLAA	USEPA
289.1_M	Zinc by FLAA	USEPA
7030	Zinc and Compounds by FLAA	NIOSH
OP040R	ZHE Extraction for TCLP Volatiles	USDOE/ASD
XENO	Xenobiotic Contaminants in Fish	USEPA
D3824(B)	Workplace NOx by Chemiluminescence	ASTM
7580	White Phosphorous by GC	USEPA
4500-CN(I)	Weak Acid Dissociable Cyanide in Water	APHA
D2332	Water-formed Deposits by XRF	ASTM
D3414	Waterborne Petroleum Oils by IR	ASTM
D5037	Waterborne Petroleum Oils by HPLC	ASTM
D3328(A)	Waterborne Petroleum Oils by GC	ASTM
D3328(B)	Waterborne Petroleum Oils by GC	ASTM
D3650	Waterborne Petroleum Oil by Fluorescence	ASTM
D3415	Waterborne Oils by GC, IRSPEC or FLSPEC	ASTM
D3857	Water Velocity in Open Channels	ASTM
I1586	Water pH	USDOI/USGS
D5413(C)	Water Levels Using Remote Interrogation	ASTM
D5413(B)	Water Levels Using Recording Devices	ASTM
D5413(A)	Water Levels Using Nonrecording Devices	ASTM
C-017-1	Water Level Measurement in Wells	USEPA
PMD-WAR(UV)	Warfarin by UV Spectroscopy	USEPA
5002	Warfarin by HPLC/UV	NIOSH
PMD-WAR(LC)	Warfarin by HPLC	USEPA
PMD-WAR	Warfarin and Sulfaquinolaxline by HPLC	USEPA
IP-1A	Volatiles in Air - SUMMA Canister	USEPA
IP-1A-B	Volatiles in Air - Portable GC/PID	USEPA
IP-1B	Volatiles in Air - Adsorbent Tubes	USEPA
5032	Volatiles by Vacuum Distillation	USEPA

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1624(W)	Volatiles by Isotope Dilution - Water	USEPA
1624(S)	Volatiles by Isotope Dilution - Soil	USEPA
5031	Volatiles by Azeotropic Distillation	USEPA
3500-SE(F)	Volatile Selenium in Water	APHA
160.4	Volatile Residue	USEPA
618	Volatile Pesticides in Water by GC	USEPA
8240B(W)	Volatile Organics in Water by GC/MS	USEPA
D2908	Volatile Organics in Water by GC	ASTM
OS040(W)	Volatile Organics in Water	USDOE/ASD
8260A	Volatile Organics in Waste by CGC/MS	USEPA
8240B(S)	Volatile Organics in Soil by GC/MS	USEPA
OS040(S)	Volatile Organics in Soil	USDOE/ASD
OG015R	Volatile Organics in Radioactive Liquids	USDOE/ASD
MC_VOA(W)	Volatile Organics in Multi-Conc. Waters	USEPA
MC_VOA(MS)	Volatile Organics in Medium Conc. Soils	USEPA
LC_VOA	Volatile Organics in Low Concentration Water	USEPA
MC_VOA(LS)	Volatile Organics in Low Concentration Soils	USEPA
TO-14	Volatile Organics in Air by GC	USEPA
6210-B	Volatile Organics by Purge and Trap GC	APHA
6210-C	Volatile Organics by Purge and Trap GC	APHA
6210-D	Volatile Organics by Purge and Trap CGC	APHA
TO-14B	Volatile Organics by Portable GC	USEPA
8260B	Volatile Organics by CGC/MS	USEPA
5100	Volatile Organic Concentration in Waste	USEPA
25D	Volatile Organic Concentration in Waste	USEPA
502.2(ELCD)	Volatile Organic Compounds in Water	USEPA
502.2(PID)	Volatile Organic Compounds in Water	USEPA
TO-1	Volatile Nonpolar Organics in Air	USEPA
TO-3	Volatile Nonpolar Organics in Air	USEPA
8164	Volatile Nonfilterable Solids in Water	HACH
502.1	Volatile Halogenated Organics	USEPA
6230-E	Volatile Halocarbons in Water by GC/MS	APHA
6230-B	Volatile Halocarbons in Water by GC	APHA
6230-C	Volatile Halocarbons in Water by GC	APHA
6230-D	Volatile Halocarbons in Water by GC	APHA
503.1	Volatile Aromatics in Water by GC	USEPA
6220-B	Volatile Aromatic Organics in Water	APHA
6220-C	Volatile Aromatic Organics in Water	APHA
6220-D	Volatile Aromatic Organics in Water	APHA
6220-E	Volatile Aromatic Organics in Water	APHA
D4983	Volatile Amines in Water	ASTM
D3695	Volatile Alcohols in Water by GC	ASTM
VS-006-1	VOCs in Water/Soil by Purge and Trap GC	USEPA
VW-011-1	VOCs in Water/Soil by Purge and Trap GC	USEPA
VW-012-1	VOCs in Water/Soil by Purge and Trap GC	USEPA
VW-010-1(S)	VOCs in Water/Soil by Headspace GC/PID	USEPA
VW-010-1(W)	VOCs in Water/Soil by Headspace GC/PID	USEPA
VW-013-1	VOCs in Water/Soil by Headspace GC/FID	USEPA
VW-001-1	VOCs in Water by Purge and Trap GC	USEPA
VW-008-1	VOCs in Water by Purge and Trap GC	USEPA
VW-014-1	VOCs in Water by Purge and Trap GC	USEPA
VW-004-1	VOCs in Water by Manual Headspace GC	USEPA

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VW-007-1	VOCs in Water by Headspace GC/PID	USEPA
VW-006-1	VOCs in Water by GC/FID of CS2 Extracts	USEPA
VW-005-1	VOCs in Water by GC/ECD of Extracts	USEPA
VW-002-1	VOCs in Water by Automated Headspace GC	USEPA
VW-003-1	VOCs in Water by Automated Headspace GC	USEPA
VG-006-1	VOCs in Soil Gas by Purge and Trap GC	USEPA
VG-010-1(ECD)	VOCs in Soil Gas by Portable GC	USEPA
VG-010-1(PID)	VOCs in Soil Gas by Portable GC	USEPA
VG-008-1	VOCs in Soil Gas by GC of Sorbent Tubes	USEPA
VG-009-1	VOCs in Soil Gas by Direct GC/PID	USEPA
VG-001-1	VOCs in Soil Gas by Adsorbent Tube	USEPA
VS-001-1	VOCs in Soil by Purge and Trap GC	USEPA
VS-005-1	VOCs in Soil by Headspace GC/PID	USEPA
VS-004-1	VOCs in Soil by GC/FID of CS2 Extracts	USEPA
VS-003-1	VOCs in Soil by GC/ECD of Extract	USEPA
VS-002-1	VOCs in Soil by Automated Headspace GC	USEPA
SA010	VOCs in Headspace Gas with Manifold	USDOE/ASD
SA011	VOCs in Headspace Gas using SUMMA Canisters	USDOE/ASD
VG-011-1	VOCs in Gas by Purge and Trap GC/ELCD/PID	USEPA
VA-006-1	VOCs in Ambient Air by Portable GC/PID	USEPA
VA-007-1	VOCs in Ambient Air by Direct GC/PID	USEPA
VG-007-1	VOCs in Air by Thermal Desorption GC	USEPA
VA-005-1	VOCs in Air by Purge and Trap GC	USEPA
VA-003-1	VOCs in Air by Portable GC/PID	USEPA
VA-001-1	VOCs in Air by GC of Sorbent Tubes	USEPA
VA-008-1	VOCs in Air by Automated Portable GC	USEPA
1666	VOCs by Isotope Dilution GC/MS	USEPA
OA-002-1	VOCs by GC/MS of Cartridges/Cylinders	USEPA
1671	VOCs by GC/FID	USEPA
5021	VOC Using Equilibrium Headspace Analysis	USEPA
OP010R	VOAs in High-Level Radioactive Wastes	USDOE/ASD
OP020R	VOA in Solid RMW by Ultrasonic Extract	USDOE/ASD
975.56	Virus in Beef (Ground)	AOAC
1015	Vinylidene Chloride by GC/FID	NIOSH
106	Vinyl Chloride in Stack Gas	USEPA
D4766	Vinyl Chloride in Atmosphere	ASTM
1007	Vinyl Chloride by GC/FID	NIOSH
107	Vinyl Chloride - Wastewater	USEPA
107A	Vinyl Chloride - Solvent/Resin	USEPA
1AP77-A	Vinyl Chloride	ENV/CANADA
1009	Vinyl Bromide by GC/FID	NIOSH
1453	Vinyl Acetate by GC/FID	NIOSH
988.2	Vibrio cholerae in Oysters	AOAC
PMD-VER(IR)	Vernolate by IR Spectroscopy	USEPA
PMD-VER(LC)	Vernolate by HPLC	USEPA
D5089	Velocity of Water,electromagnetic meters	ASTM
25E	Vapor Phase Organic Concentration in Waste	USEPA
7504	Vanadium Oxides by X-Ray Powder Fraction	NIOSH
3500-V-D	Vanadium in Water by Spectrophotometry	APHA
3500-V-C	Vanadium in Water by ICP	APHA
D3373	Vanadium in Water by GFAA	ASTM
3500-V-B	Vanadium in Water by FLAA	APHA

11880	Vanadium in Water by Colorimetry	USDOJ/USGS
12880	Vanadium in Water by Colorimetry	USDOJ/USGS
286.2	Vanadium by GFAA	USEPA
7911	Vanadium by GFAA	USEPA
286.2_M	Vanadium by GFAA	USEPA
286.1	Vanadium by FLAA	USEPA
7910	Vanadium by FLAA	USEPA
286.1_M	Vanadium by FLAA	USEPA
2536	Valeraldehyde by GC/FID	NIOSH
5910-B	UV - Absorbing Organic Compounds	APHA
U-01	Uranium-232 Tracer Solution	USEPA
D5174	Uranium in Water by Phosphorimetry	ASTM
7500-U-C	Uranium in Water by Isotopic Analysis	APHA
7500-U-B	Uranium in Water by GPC or Scintillation	APHA
D2907(B)	Uranium in Water by Extraction & Fluorometry	ASTM
D2907(A)	Uranium in Water by Direct Fluorometry	ASTM
U-01(ASP)	Uranium in Urine	USDOE/EML
U-01(F)	Uranium in Urine	USDOE/EML
908	Uranium in Drinking Water	USEPA
908.1	Uranium in Drinking Water	USEPA
E318	Uranium in Aqueous Solutions	ASTM
D3972	Uranium by Radiochemistry	ASTM
R1181	Uranium - Fluorometric, Extraction	USDOJ/USGS
R1180	Uranium - Fluorometric	USDOJ/USGS
R1182	Uranium - Alpha Spectroscopy	USDOJ/USGS
U-04	Uranium	USDOE/EML
5210-C	Ultimate Biochemical Oxygen Test	APHA
1551	Turpentine by GC/FID	NIOSH
D1889	Turbidity of Water	ASTM
2130	Turbidity in Water	APHA
180.1	Turbidity by Nephelometry	USEPA
7074(INSL)	Tungsten by Flame Atomic Absorption	NIOSH
7074(SOL)	Tungsten by Flame Atomic Absorption	NIOSH
8440	TRPH by Infrared Spectrophotometry	USEPA
7500-3H(B)	Tritium in Water by Liquid Scintillation	APHA
D2476	Tritium in Water by Liquid Scintillation	ASTM
969.48	Tritium in Water	AOAC
0010(W)	Tritium in Water	USEPA
3H-01	Tritium in Water	USDOE/EML
3H-02	Tritium in Water	USDOE/EML
H-02	Tritium in Water	USEPA
H-03	Tritium in Water	USEPA
H-01	Tritium in Milk, Soil, Urine and Biota	USEPA
906	Tritium in Drinking Water	USEPA
D4107	Tritium in Drinking Water	ASTM
0010(BT)	Tritium in Biological Tissue	USEPA
D3442	Tritium in Atmosphere	ASTM
RP580	Tritium by Distillation of Waters and Soils	USDOE/ASD
R1173	Tritium - Liquid Scintillation, Reston Lab	USDOJ/USGS
R1171	Tritium - Liquid Scintillation, Denver Lab	USDOJ/USGS
R1174	Tritium - Electrolytic, Reston Lab	USDOJ/USGS
R1172	Tritium - Electrolytic, Denver Lab	USDOJ/USGS

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5038	Triphenyl Phosphate GC/FPD	NIOSH
5037	Triorthocresyl Phosphate GC/FPD	NIOSH
5036	Trimellitic Anhydride by GC/FID	NIOSH
PART_1	Trihalomethanes in Water by Purge and Trap	USEPA
6232-C	Trihalomethanes in Water by CGC/MS	APHA
6232-B	Trihalomethanes in Water by CGC	APHA
6232-D	Trihalomethanes in Water by CGC	APHA
PART_2	Trihalomethanes in Drinking Water by GC	USEPA
5710-B	Trihalomethane Formation Potential	APHA
5710-C	Trihalomethane Formation Potential	APHA
5710-D	Trihalomethane Formation Potential	APHA
PMD-ACG(LC2)	Triforine by HPLC	USEPA
PMD-TSU	Trifluralin by IR Spectroscopy	USEPA
1017	Trifluorobromomethane by GC/FID	NIOSH
PMD-TFM	Triflumizole by HPLC	USEPA
PMD-WTY	Triethylene Glycol by GC/TCD	USEPA
PMD-TPR	Triclopyr by HPLC	USEPA
3701	Trichloroethylene by portable GC	NIOSH
1022	Trichloroethylene by GC/FID	NIOSH
PMD-TRC(IR)	Trichlorfon by IR Spectroscopy	USEPA
PMD-TRC(LC)	Trichlorfon by HPLC	USEPA
PMD-TRC(GC1)	Trichlorfon by GC/FID	USEPA
PMD-TRC(GC2)	Trichlorfon by Derivatization and GC/FID	USEPA
5034	Tributyl Phosphate by GC/FPD	NIOSH
PMD-TBU	Tribenuron Methyl Ester by HPLC	USEPA
619	Triazine Pesticides in Wastewater	USEPA
PMD-TQA	Triallate by GC/FID	USEPA
PMD-TLL	Triadimenol by GC/FID	USEPA
M-03	Trace Metals	USDOE/EML
993.14	Trace Elements in Waters and Wastewaters	AOAC
D3919	Trace Elements in Water Using GFAA	ASTM
1638	Trace Elements in Water by ICP/MS	USEPA
1639	Trace Elements in Water by GFAA	USEPA
1640	Trace Elements in Water by Chelation Preconcentration and ICF	USEPA
1637	Trace Elements in Water by Chelation Preconcentration and GF	USEPA
AES-0029	Trace Element Analysis of Water	FISON
O-002-1	TPH in Soil by IR of Freon Extract	USEPA
O-003-1	TPH in Soil by GC/PID of Methanol Extract	USEPA
O-004-1	TPH in Soil by GC/FID of CH ₂ Cl ₂ Extracts	USEPA
O-009-1	TPH in Soil by GC/FID of CH ₂ Cl ₂ Extracts	USEPA
O-006-1	TPH by Headspace GC/PID	USEPA
D4779	Total, Organic and Inorganic Carbon	ASTM
2540-G	Total, Fixed and Volatile Solids	APHA
8001(1)	Total, Fecal and E. Coli Coliform	HACH
8001(2)	Total, Fecal and E. Coli Coliform	HACH
8001(3)	Total, Fecal and E. Coli Coliform	HACH
8001(A1)	Total, Fecal and E. Coli Coliform	HACH
8001(A2)	Total, Fecal and E. Coli Coliform	HACH
8001(A3)	Total, Fecal and E. Coli Coliform	HACH
8074(A)	Total, Fecal and E. Coli Coliform	HACH
8074(B)	Total, Fecal and E. Coli Coliform	HACH
9060AM	Total Volatile Organic Carbon	USEPA

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8276	Total Volatile and Fixed Solids	HACH
2540-D	Total Suspended Solids in Water	APHA
C-008-1	Total Suspended Solids in Water	USEPA
160.2_M	Total Suspended Solids	USEPA
920.193(A)	Total Solids in Water	AOAC
2540-B	Total Solids Dried 103-105C in Water	APHA
160.3	Total Residue	USEPA
330.1	Total Residual Chlorine by Titration	USEPA
330.2	Total Residual Chlorine by Titration	USEPA
330.3	Total Residual Chlorine by Titration	USEPA
330.4	Total Residual Chlorine by Titration	USEPA
1RM-6	Total Reduced Sulphur (TRS) Compounds	ENV/CANADA
16A	Total Reduced Sulfur Emissions in Air	USEPA
16B	Total Reduced Sulfur Emissions in Air	USEPA
O3106	Total Recoverable Triazines in Water	USDOI/USGS
O3110	Total Recoverable Phenols in Water	USDOI/USGS
420.1	Total Recoverable Phenolics in Water	USEPA
420.2	Total Recoverable Phenolics in Water	USEPA
420.3	Total Recoverable Phenolics in Water	USEPA
420.4	Total Recoverable Phenolics in Water	USEPA
418.1	Total Recoverable Petroleum Hydrocarbons	USEPA
D4183(A)	Total Recoverable Organic Phosphorus	ASTM
D4183(B)	Total Recoverable Organic Phosphorus	ASTM
413.2	Total Recoverable Oil and Grease by IR	USEPA
413.1	Total Recoverable Oil and Grease	USEPA
9070	Total Recoverable Oil and Grease	USEPA
7500-SR(B)	Total Radioactive Strontium in Water	APHA
8190	Total Phosphorus in Water	HACH
365.4	Total Phosphorus After Block Digestion	USEPA
SFSAS_20	Total Phosphates in Water	USEPA
9065	Total Phenolics by Spectroscopy	USEPA
9067	Total Phenolics by Spectrophotometry	USEPA
9066	Total Phenolics by Automated Colorimetry	USEPA
500	Total Particulates by Gravimetric Technique	NIOSH
PAH-008	Total PAHs in Soil	USEPA
D4478(B)	Total Oxygen Uptake	ASTM
9020B	Total Organic Halides by Coulometry	USEPA
450.1	Total Organic Halide	USEPA
OS010	Total Organic Chlorine in Oil	USDOE/ASD
5310-D	Total Organic Carbon in Water- Wet-Oxidation Method	APHA
5310-C	Total Organic Carbon in Water- Ultraviolet Oxidation Method	APHA
9060	Total Organic Carbon in Water and Waste	USEPA
415.2_M	Total Organic Carbon in Water	USEPA
C-007-1	Total Organic Carbon in Water	USEPA
D2579	Total Organic Carbon in Water	ASTM
O3100	Total Organic Carbon in Water	USDOI/USGS
SFSAS_18	Total Organic Carbon in Water	USEPA
SFSAS_1	Total Organic Carbon in Sediment	USEPA
SFSAS_19	Total Organic Carbon in Sediment	USEPA
5310-B	Total Organic Carbon by Combustion-Infrared Method	APHA
415.1	Total Organic Carbon by Combustion	USEPA
9022	Total Organic Halides, Neutron Activation	USEPA

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8158	Total Nonfilterable Residue Solids	HACH
973.48	Total Nitrogen in Water	AOAC
D3223	Total Mercury in Water by CVAA	ASTM
351.4	Total Kjeldahl Nitrogen Using an ISE	USEPA
4500-NOR(B)	Total Kjeldahl Nitrogen in Water	APHA
4500-NOR(C)	Total Kjeldahl Nitrogen in Water	APHA
351.3(A)	Total Kjeldahl Nitrogen by Titration	USEPA
351.1	Total Kjeldahl Nitrogen by Colorimetry	USEPA
351.2	Total Kjeldahl Nitrogen by Colorimetry	USEPA
351.3(C)	Total Kjeldahl Nitrogen - Potentiometric	USEPA
351.3(B)	Total Kjeldahl Nitrogen - Nesslerization	USEPA
NITRO-16	Total Kjeldahl Nitrogen	USDOC/NOAA
8008	Total Iron in Water	HACH
3500-CR(D)	Total Hexavalent Chromium in Water	APHA
8226	Total Hardness in Water	HACH
C-004-1	Total Hardness by Colorimetry	USEPA
130.1	Total Hardness	USEPA
130.2	Total Hardness	USEPA
25A	Total Gaseous Organic Emissions	USEPA
25B	Total Gaseous Organic Emissions	USEPA
25	Total Gaseous Nonmethane Organic Emissions	USEPA
13A	Total Fluoride Emissions in Air	USEPA
13B	Total Fluoride Emissions in Air	USEPA
340.1	Total Fluoride by Colorimetric Analysis	USEPA
8163	Total Filterable Solids	HACH
2540-C	Total Dissolved Solids in Water	APHA
C-006-1	Total Dissolved Solids in Water	USEPA
160.1_M	Total Dissolved Solids	USEPA
4500-O-D	Total Dissolved Oxygen by Titration- Permanganate Modification	APHA
4500-O-B	Total Dissolved Oxygen by Titration- Iodometric Method	APHA
4500-O-F	Total Dissolved Oxygen by Titration- Copper/Sulfate-Sulfamic Acid	APHA
4500-O-C	Total Dissolved Oxygen by Titration- Azide Modification	APHA
4500-O-E	Total Dissolved Oxygen by Titration- Alum Flocculation Modification	APHA
4500-O-G	Total Dissolved Oxygen by Membrane Electrode Method	APHA
335.2_MA(W)	Total Cyanide in Water by Colorimetry	USEPA
335.2_MB(W)	Total Cyanide in Water by Colorimetry	USEPA
335.2_MC(W)	Total Cyanide in Water by Colorimetry	USEPA
335.2	Total Cyanide in Water	USEPA
335.2_M(S)	Total Cyanide in Soils and Sediments	USEPA
335.3	Total Cyanide by Colorimetric Analysis	USEPA
1604	Total Coliforms and E. coli in Water by Membrane Filtration Using	USEPA
991.15	Total Coliforms and E. coli in Water	AOAC
9222-(B+B.5c)	Total Coliform Fermentation Technique, Multi-tube Fermentation	APHA
9131	Total Coliform by Multiple Tube Fermentation	USEPA
9132	Total Coliform by Membrane Filter	USEPA
B0035	Total Coliform Bacteria- Presumptive Test- MPN Method	USDOI/USGS
B0040	Total Coliform Bacteria- Presumptive Onsite Test- MPN Method	USDOI/USGS
B0025	Total Coliform Bacteria- Immediate Incubation Test	USDOI/USGS
B0030	Total Coliform Bacteria- Delayed Incubation Test	USDOI/USGS
B0045	Total Coliform Bacteria- Confirmation Test- MPN Method	USDOI/USGS
990.11	Total Coliform and E. coli in Foods	AOAC
8024	Total Chromium in Water	HACH

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0010(B)	Total Chromatographable Organic Material	USEPA
O3105	Total Chlorophenoxy Acids in Water	USDOI/USGS
8168	Total Chlorine in Water by Titration	HACH
8167	Total Chlorine in Water by DPD	HACH
9075	Total Chlorine in Petroleum Products	USEPA
9076	Total Chlorine in Petroleum Products	USEPA
9077(A)	Total Chlorine in Petroleum Products	USEPA
9077(B)	Total Chlorine in Petroleum Products	USEPA
9077(C)	Total Chlorine in Petroleum Products	USEPA
C-015-1	Total Carbon in Soil by Combustion	USEPA
O5101	Total Carbon in Bottom Material	USDOI/USGS
D4129	Total Carbon and Organic Carbon in Water	ASTM
D4839	Total Carbon and Organic Carbon in Water	ASTM
B0005	Total Bacteria- Epifluorescence Method	USDOI/USGS
PMD-AS(TIT1)	Total Arsenic by Titration	USEPA
PMD-AS(TIT2)	Total Arsenic by Titration	USEPA
D4454	Total and Respiring Bacteria	ASTM
10018	Total and Fecal Coliforms, E. Coli, P/A	HACH
983.25	Total and Fecal Coliforms in Foods	AOAC
D513(A)	Total and Dissolved CO2 - Gas Sensing Electrode	ASTM
D513(B)	Total and Dissolved CO2 - Coulometric Titration	ASTM
9010A(B)	Total and Amenable Cyanides by Titration	USEPA
9010A(A)	Total and Amenable Cyanides by Colorimetry	USEPA
9012	Total and Amenable Cyanides	USEPA
9012A	Total and Amenable Cyanide (Auto UV)	USEPA
2535	Toluene-2,4-Diisocyanate by HPLC/UV	NIOSH
4000	Toluene by GC/FID	NIOSH
986.22	TNT, RDX, HMX and 2,4-DNT in Wastewater	AOAC
O3112	TNT, RDX and Picric Acid in Water	USDOI/USGS
PMD-TLC(TLC1)	TLC Systems for Pesticide Identification	USEPA
PMD-TLC(TLC2)	TLC Systems for Pesticide Identification	USEPA
D3590(A)	TKN by Ion Selective Electrode	ASTM
D3590(B)	TKN by AutoAnalyzer	ASTM
NITRO-7	TKN - Spectrophotometric	USDOC/NOAA
NITRO-25	TKN - Phenate, AutoAnalyzer	USDOC/NOAA
NITRO-6	TKN - Colorimetric	USDOC/NOAA
NITRO-5	TKN - Block Digestor, Automated	USDOC/NOAA
3500-TI	Titanium in Water by FLAA	APHA
283.2	Titanium by GFAA	USEPA
283.1	Titanium by FLAA	USEPA
I2851(W)	Tin in Water by HYDAA	USDOI/USGS
3500-SN	Tin in Water by FLAA or GFAA	APHA
PMD-SN	Tin in Organotins by Titration	USEPA
I2851(S)	Tin in Bottom Material by HYDAA	USDOI/USGS
282.2	Tin by GFAA	USEPA
282.1	Tin by FLAA	USEPA
7870	Tin by FLAA	USEPA
EV-024	Tin and Triorganotin in Wastewater	USEPA
EV-025	Tin and Triorganotin in Wastewater	USEPA
203A	Time-Averaged Opacity of Emissions	USEPA
TH-01	Thorium-234 Tracer Solution	USEPA
RP570	Thorium Isotopes by Radiochemistry	USDOE/ASD

3500-TH	Thorium in Water by FLAA	APHA
TH-01	Thorium in Urine	USDOE/EML
00-07	Thorium and Uranium in Water Samples	USEPA
00-05	Thorium and Uranium in Ashed Samples	USEPA
00-06	Thorium and Uranium in Ashed Samples	USEPA
972.29	Thiram Pesticide Residues	AOAC
PMD-THR(UV)	Thiram by UV Spectroscopy	USEPA
PMD-THR(IR)	Thiram by IR Spectroscopy	USEPA
5005	Thiram by HPLC/UV	NIOSH
PMD-THR(LC)	Thiram by HPLC	USEPA
622.1	Thiophosphate Pesticides in Wastewater	USEPA
PMD-THO	Thiophanate-Methyl by UV Spectroscopy	USEPA
PMD-THN	Thiophanate by UV Spectroscopy	USEPA
4500-CN(M)	Thiocyanate in Water	APHA
D4193	Thiocyanate in Water	ASTM
634	Thiocarbate Pesticides in Wastewaters	USEPA
PMD-BEO	Thiobencarb by GC/FID	USEPA
641	Thiabendazole in Wastewater by HPLC	USEPA
PMD-TFZ	Thiabendazole by GC/FID	USEPA
3500-TL(C)	Thallium in Water by ICP	APHA
I1866	Thallium in Water by GFAA	USDOI/USGS
3500-TL(B)	Thallium in Water by FLAA	APHA
279.2	Thallium by GFAA	USEPA
7841	Thallium by GFAA	USEPA
279.2_M	Thallium by GFAA	USEPA
279.1	Thallium by FLAA	USEPA
7840	Thallium by FLAA	USEPA
279.1_M	Thallium by FLAA	USEPA
8331(W)	Tetrazene in Water by HPLC	USEPA
8331(S)	Tetrazene in Soil by HPLC	USEPA
3513	Tetranitromethane by GC/NPD	NIOSH
3505	Tetramethyl Thiourea by Visible Absorption	NIOSH
2534	Tetramethyl Lead (as Pb) by GC/PID	NIOSH
PMD-TFK	Tetramethrin by GC/FID	USEPA
1609	Tetrahydrofuran by GC/FID	NIOSH
2504	Tetraethyl Pyrophosphate by GC/FPD	NIOSH
2533	Tetraethyl Lead (as Pb) by GC/PID	NIOSH
PMD-TFB	Tetrachlorvinphos by GC/FID	USEPA
513	Tetrachlorodibenzo-p-dioxin in Water	USEPA
613	Tetrachlorodibenzo-p-dioxin by GC/MS	USEPA
PMD-TEI	Terbacil by UV Spectroscopy	USEPA
8375	Temperature, Thermometric	HACH
2550	Temperature of Water by Thermometer	APHA
170.1	Temperature	USEPA
RP550	Technetium-99 Using Liquid Scintillation	USDOE/ASD
TC-01	Technetium-99	USDOE/EML
PMD-TDZ	Technazene by GC/FID	USEPA
PMD-TDU	Tebuthiuron by UV Spectroscopy	USEPA
OP130R	TCLP for Semivolatiles and Pesticides	USDOE/ASD
OH100R	TCLP Acidic Semivolatiles Using HPLC	USDOE/ASD
HERL_021	TCDD Residues	USEPA
88.01(S)	TCDD and TCDF by Mass Spectrometry	NCASI

88.01(W)	TCDD and TCDF by Mass Spectrometry	NCASI
2160-B	Taste in Water by Flavor Threshold Test	APHA
2160-C	Taste in Water by Flavor Rating	APHA
2170	Taste and Odor by Profile Analysis	APHA
5550-B	Tannin and Lignin by Colorimetry	APHA
D3977	Suspended-Sediment in Water	ASTM
2.2	Suspended Particulates in the Atmosphere	USEPA
50APP-J	Suspended Particulate Matter (PM10)	USEPA
50APP-B	Suspended Particulate Matter	USEPA
O7100	Suspended Organic Carbon in Water	USDOI/USGS
D1590	Surface Tension of Water	ASTM
5035	Super Absorbent Polymers by ICP	NIOSH
6012	Sulfuryl Fluoride by Ion Chromatography	NIOSH
D4856	Sulfuric Acid Mist in Atmosphere	ASTM
6602	Sulfur Hexafluoride by Portable GC	NIOSH
16	Sulfur Emissions from Stationary Sources	USEPA
6A	Sulfur Dioxide, Carbon Dioxide, Moisture	USEPA
2.9	Sulfur Dioxide in the Atmosphere	USEPA
2.1 (ATM SO2)	Sulfur Dioxide in the Atmosphere	USEPA
2.1A	Sulfur Dioxide in the Atmosphere	USEPA
50APP-A	Sulfur Dioxide in Atmosphere	USEPA
D2914	Sulfur Dioxide in Atmosphere	ASTM
6 (ATM SO2)	Sulfur Dioxide from Stationary Sources	USEPA
6C	Sulfur Dioxide from Stationary Sources	USEPA
PMD-S-UO	Sulfur Dioxide by Titration	USEPA
6004	Sulfur Dioxide by Ion Chromatography	NIOSH
6B	Sulfur Dioxide and Carbon Dioxide in Air	USEPA
PMD-S-UF(GRV2)	Sulfur by Oxidation and Gravimetry	USEPA
PMD-S-UF(GRV1)	Sulfur by CS2 Extraction and Gravimetry	USEPA
PMD-S-UF(GRV3)	Sulfur by CS2 Extraction and Gravimetry	USEPA
377.1	Sulfite in Water by Titration	USEPA
8071	Sulfite in Water by Titration	HACH
4500-SO3(B)	Sulfite in Water by Titration	APHA
4500-SO3(C)	Sulfite in Water by Colorimetry	APHA
D4978(A)	Sulfides in Wastes - Lead Acetate Paper	ASTM
D4978(B)	Sulfides in Wastes - Gas Tube	ASTM
D4658	Sulfide Ion in Water by ISE	ASTM
4500-S2(E)	Sulfide in Water by Titration	APHA
I3840	Sulfide in Water by Titration	USDOI/USGS
4500-S2(D)	Sulfide in Water by Spectrophotometry	APHA
9215	Sulfide in Water by ISE	USEPA
4500-S2(G)	Sulfide in Water by Ion-Selective Electrode Method	APHA
8131	Sulfide in Water	HACH
376.1	Sulfide by Titration with Iodine	USEPA
376.2	Sulfide by Colorimetric Determination	USEPA
4500-S2(F)	Sulfide by Calculation	APHA
B0400	Sulfate-Reducing Bacteria- MPN Method	USDOI/USGS
D4412	Sulfate-Reducing Bacteria	ASTM
D4130	Sulfate Ion in Water by Spectroscopy	ASTM
375.6	Sulfate in Wet Deposition	IL/SWSD
375_M(B)	Sulfate in Water by Turbidity	USEPA
I2823	Sulfate in Water by Turbidimetry	USDOI/USGS

D516	Sulfate in Water by Turbidimeter	ASTM
I1820	Sulfate in Water by Titration	USDOI/USGS
4500-SO4(B)	Sulfate in Water by Ion Chromatography	APHA
4500-SO4(C)	Sulfate in Water by Gravimetric Analysis	APHA
4500-SO4(D)	Sulfate in Water by Gravimetric Analysis	APHA
375.2	Sulfate in Water by Colorimetry	USEPA
4500-SO4(F)	Sulfate in Water by Colorimetry	APHA
I2822	Sulfate in Water by Colorimetry	USDOI/USGS
925.54	Sulfate in Water	AOAC
973.57	Sulfate in Water	AOAC
8051	Sulfate in Water	HACH
375.4	Sulfate by Turbidimetric Determination	USEPA
9038	Sulfate by Turbidimetric Determination	USEPA
4500-SO4(E)	Sulfate by Turbidimetric Analysis	APHA
375.3	Sulfate by Gravimetric Determination	USEPA
375.1	Sulfate by Colorimetry With Chloranilate	USEPA
375_M(A)	Sulfate by Colorimetry	USEPA
9035	Sulfate by Automated Colorimetry	USEPA
9036	Sulfate by Automated Colorimetry	USEPA
242.4	Substituted Urea Herbicides	USFDA
PMD-STY(UV)	Strychnine by UV Spectroscopy	USEPA
5016	Strychnine by HPLC/UV	NIOSH
PMD-STY(LC)	Strychnine by HPLC	USEPA
PMD-STY(GRAV)	Strychnine by Acid Precipitation	USEPA
973.66	Strontium-90 in Water	AOAC
SR-03	Strontium-90 in Urine	USEPA
RP520	Strontium-90 in Soil, Water and Filter	USDOE/ASD
RP510	Strontium-90 in Dissolved Samples	USDOE/ASD
R1160	Strontium-90	USDOI/USGS
SR-02	Strontium-90	USDOE/EML
008(W)	Strontium-89 and Strontium-90 in Water	USEPA
008(BT)	Strontium-89 and Strontium-90 in Tissue	USEPA
008(S)	Strontium-89 and Strontium-90 in Soil	USEPA
008(V)	Strontium-89 and Strontium-90 in Plants	USEPA
7 (SR-89/90)	Strontium-89 and Strontium-90 in Milk	USEPA
974.37	Strontium-89 and -90 in Milk	AOAC
SR-01(SCN)	Strontium-89	USDOE/EML
D3352	Strontium Ion in Water	ASTM
3500-SR(C)	Strontium in Water by ICP	APHA
3500-SR(D)	Strontium in Water by Flame Photometry	APHA
3500-SR(B)	Strontium in Water by FLAA	APHA
D3920	Strontium in Water by FLAA	ASTM
I1800(W)	Strontium in Water by FLAA	USDOI/USGS
911.03	Strontium in Water	AOAC
RP501(1)	Strontium in High Level Samples	USDOE/ASD
I1800(S)	Strontium in Bottom Material by FLAA	USDOI/USGS
7780	Strontium by FLAA	USEPA
SR-01(A)	Strontium	USDOE/EML
PMD-STM(VIS)	Streptomycin by Visible Spectroscopy	USEPA
PMD-STM(UV)	Streptomycin by UV Spectroscopy	USEPA
6008	Stibine by Visible Spectrophotometry	NIOSH
975.55	Staphylococcus aureus in Foods	AOAC

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980.37	Staphylococcus aureus in Foods	AOAC
987.09	Staphylococcus aureus in Foods	AOAC
976.31	Staphylococcal Enterotoxin in Foods	AOAC
980.32	Staphylococcal Enterotoxin in Foods	AOAC
9222-B	Standard Total Coliform Membrane Filter Procedure	APHA
9221-B	Standard Total Coliform Fermentation Technique, Multi-tube Fer	APHA
9222-C	Standard Total Coliform- Delayed-Incubation Procedure	APHA
B0001	Standard Plate Count- Membrane Filter Method	USDOI/USGS
P-02	Stable Phosphorous in Biological Samples	USEPA
4500-CN(K)	Spot Test for Cyanides for Screening	APHA
D1429(C)	Specific Gravity of Water Using Flask	ASTM
D1429(B)	Specific Gravity of Water Using Balance	ASTM
D1429(A)	Specific Gravity of Water by Pycnometer	ASTM
D1429(D)	Specific Gravity of Water by Hydrometer	ASTM
D854	Specific Gravity of Soils	ASTM
C-014-1	Specific Gravity of Soil	USEPA
973.4	Specific Conductance of Water	AOAC
120.6	Specific Conductance - Acid Deposition	IL/SWSD
9050	Specific Conductance	USEPA
9050A	Specific Conductance	USEPA
I1780	Specific Conductance	USDOI/USGS
978.26	Somatic Cells in Milk	AOAC
920.193(C)	Solids in Water by Ignition	AOAC
920.193(B)	Solids in Solution in Water	AOAC
SFSAS_21	Soil Volume by Volumetric Method	USEPA
SFSAS_22	Soil Volume by Displacement Method	USEPA
C-013-1	Soil pH	USEPA
C-010-1	Soil Extractable Organics by Gravimetry	USEPA
9045B	Soil and Waste pH	USEPA
C-011-1	Soil % Moisture by Gravimetry	USEPA
D3113(A)	Sodium Salts of EDTA in Water	ASTM
D3113(B)	Sodium Salts of EDTA in Water	ASTM
D2791	Sodium in Water by ISE-Na	ASTM
3500-NA(C)	Sodium in Water by ICP	APHA
3500-NA(D)	Sodium in Water by Flame Photometry	APHA
3500-NA(B)	Sodium in Water by FLAA	APHA
D4191	Sodium in Water by FLAA	ASTM
I1735(W)	Sodium in Water by FLAA	USDOI/USGS
I3736	Sodium in Water by FLAA	USDOI/USGS
973.54	Sodium in Water	AOAC
I1735(S)	Sodium in Bottom Material by FLAA	USDOI/USGS
PMD-NA-H	Sodium Fluoride by Ion Chromatography	USEPA
PMD-NA-D	Sodium Chlorate and Metaborate by Titration	USEPA
273.2	Sodium by GFAA	USEPA
273.1	Sodium by FLAA	USEPA
7770	Sodium by FLAA	USEPA
273.1_M	Sodium by FLAA	USEPA
PMD-AS(ITE)	Sodium Arsenite by Titration	USEPA
C-019-1	Slug Test for Hydraulic Conductivity	USEPA
4110-C	Single Column Ion Chromatography	APHA
PMD-SIM	Simazine by UV Spectroscopy	USEPA
3500-AG(D)	Silver in Water by Spectrophotometry	APHA

3500-AG(C)	Silver in Water by ICP	APHA
D3866(C)	Silver in Water by GFAA	ASTM
3500-AG(B)	Silver in Water by FLAA or GFAA	APHA
D3866(B)	Silver in Water by FLAA	ASTM
D3866(A)	Silver in Water by Chelation and FLAA	ASTM
I1720	Silver in Water by Chelation and FLAA	USDOI/USGS
272.2	Silver by GFAA	USEPA
7761	Silver by GFAA	USEPA
272.2_M	Silver by GFAA	USEPA
272.1	Silver by FLAA	USEPA
272.1_M	Silver by FLAA	USEPA
7760A	Silver by FLAA	USEPA
D4189	Silt Density Index of Water	ASTM
8186	Silica, Colorimetric	HACH
4500-SI(D)	Silica in Water by Spectrophotometry- Molybdosilicate Method	APHA
4500-SI(E)	Silica in Water by Spectrophotometry- Heteropoly Blue Method	APHA
4500-SI(G)	Silica in Water by ICP	APHA
4500-SI(C)	Silica in Water by Gravimetric Analysis	APHA
4500-SI(B)	Silica in Water by FLAA	APHA
D4517	Silica in Water by FLAA	ASTM
I1702	Silica in Water by FLAA	USDOI/USGS
D859	Silica in Water by Colorimetry	ASTM
I1700	Silica in Water by Colorimetry	USDOI/USGS
I2700	Silica in Water by Colorimetry	USDOI/USGS
4500-SI(F)	Silica in Water by Automated Colorimetry	APHA
920.195	Silica in Water	AOAC
PMD-SEU	Siduron by UV Spectroscopy	USEPA
2540-F	Settleable Solids in Water	APHA
8165	Settleable Matter Solids in Wastewater	HACH
160.5	Settleable Matter	USEPA
B3401	Seston- Glass-fiber Filter Method	USDOI/USGS
S-001-1	Semivolatiles in Water by CS2 Extraction	USEPA
S-003-1	Semivolatiles in Soil (MeCl2 Extraction)	USEPA
LC_SV	Semivolatiles in Low Concentration Water	USEPA
1665	Semivolatiles by Isotope Dilution GC/MS	USEPA
1625(S)	Semivolatiles - Soil, GC/MS	USEPA
1625(BNW)	Semivolatiles - Base/Neutrals, GC/MS	USEPA
1625(AW)	Semivolatiles - Acids, GC/MS	USEPA
MC_SVOA(W)	Semivolatile Organics in Waters	USEPA
8250A	Semivolatile Organics in Water by GC/MS	USEPA
8270B(W)	Semivolatile Organics in Water by GC/MS	USEPA
8270B(S)	Semivolatile Organics in Soil by GC/MS	USEPA
MC_SVOA(MS)	Semivolatile Organics in Medium Conc. Soil	USEPA
MC_SVOA(LS)	Semivolatile Organics in Low Conc. Soils	USEPA
8410(BN)	Semivolatile Organics by GC/FTIR, B/N Extrct	USEPA
8410(A)	Semivolatile Organics by GC/FTIR	USEPA
8270C(S)	Semivolatile Organic Compounds by CGC/MS	USEPA
8270C(W)	Semivolatile Organic Compounds by CGC/MS	USEPA
RP530	Selenium-79 in Aqueous Samples	USDOE/ASD
3500-SE(I)	Selenium in Water by ICP	APHA
3500-SE(C)	Selenium in Water by HYDAA	APHA
D3859(A)	Selenium in Water by HYDAA	ASTM

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I1667(W)	Selenium in Water by HYDAA	USDOJ/USGS
I2667(W)	Selenium in Water by HYDAA	USDOJ/USGS
3500-SE(H)	Selenium in Water by GFAA	APHA
D3859(B)	Selenium in Water by GFAA	ASTM
7741A	Selenium in Water by Gaseous Hydride	USEPA
3500-SE(E)	Selenium in Water by Fluorimetry	APHA
3500-SE(D)	Selenium in Water by Colorimetry	APHA
7740	Selenium in Various Matrices by GFAA	USEPA
I1667(S)	Selenium in Bottom Material by HYDAA	USDOJ/USGS
I2667(S)	Selenium in Bottom Material by HYDAA	USDOJ/USGS
270.2	Selenium by GFAA	USEPA
270.2_M	Selenium by GFAA	USEPA
7742	Selenium by Gaseous Borohydride AA	USEPA
270.3	Selenium by FLAA	USEPA
8275	Screening Semivolatile Organics	USEPA
MC_SVOA	Screening Semivolatile Organic Extracts	USEPA
MC_VOA	Screening of Hexadecane Extracts	USEPA
PCB-004	Screening for PCBs in Water	USEPA
9079	Screening for PCBs in Transformer Oil	USEPA
9078	Screening for PCBs in Soil	USEPA
0023A	Sampling for PCDD and PCDF Emissions	USEPA
0011-0	Sampling for Formaldehyde Emissions	USEPA
1A	Sample and Velocity Traverses	USEPA
991.13	Salmonella, E. coli, Enterobac. in Foods	AOAC
989.12	Salmonella sp./E. coli in Foods	AOAC
978.24	Salmonella sp. in Foods	AOAC
987.11	Salmonella in Low Moisture Foods	AOAC
986.35	Salmonella in Foods by Photometer	AOAC
967.25	Salmonella in Foods	AOAC
967.26	Salmonella in Foods	AOAC
967.27	Salmonella in Foods	AOAC
967.28	Salmonella in Foods	AOAC
975.54	Salmonella in Foods	AOAC
985.42	Salmonella in Foods	AOAC
987.1	Salmonella in Foods	AOAC
989.14	Salmonella in Foods	AOAC
989.15	Salmonella in Foods	AOAC
990.13	Salmonella in Foods	AOAC
991.12	Salmonella in Foods	AOAC
991.38	Salmonella in Foods	AOAC
993.08	Salmonella in Foods	AOAC
B0100	Salmonella and Shigella- Plate Count	USDOJ/USGS
2520-B	Salinity in Water- Electrical Conductivity Method	APHA
2520-C	Salinity in Water- Density Method	APHA
2520-D	Salinity in Water- Algorithm of Practical Salinity	APHA
PMD-SAE	Salicylanilide by UV Spectroscopy	USEPA
3500-RU	Ruthenium in Water by FLAA	APHA
267.2	Ruthenium by GFAA	USEPA
267.1	Ruthenium by FLAA	USEPA
635	Rotenone in Wastewater by HPLC	USEPA
5007	Rotenone by HPLC/UV	NIOSH
PMD-ROT	Rotenone by HPLC	USEPA

PMD-FCL(IR)	Ronnel by IR Spectroscopy	USEPA
PMD-FCL(GC)	Ronnel by GC/FID	USEPA
5027	Ribavirin by HPLC/UV	NIOSH
3500-RH	Rhodium in Water by FLAA	APHA
265.2	Rhodium by GFAA	USEPA
265.1	Rhodium by FLAA	USEPA
3500-RE	Rhenium in Water by FLAA	APHA
264.2	Rhenium by GFAA	USEPA
264.1	Rhenium by FLAA	USEPA
IP-10A	Respirable Particulates in Indoor Air	USEPA
IP-10B	Respirable Particulates in Indoor Air	USEPA
600	Respirable Particulates by Gravimetric	NIOSH
PMD-RES(LC)	Resmethrin in Aerosols by HPLC	USEPA
PMD-RES(GC1)	Resmethrin in Aerosols by GC	USEPA
PMD-RES(IR)	Resmethrin by IR Spectroscopy	USEPA
PMD-RES(GC2)	Resmethrin by GC/FID	USEPA
8277	Residue, Volatile, Filterable (dissolved)	HACH
8271	Residue, Total Solids	HACH
I1749	Residue by Evaporation and Gravimetric	USDOI/USGS
I1750	Residue by Evaporation and Gravimetric	USDOI/USGS
I3750	Residue by Evaporation and Gravimetric	USDOI/USGS
I3765	Residue by Evaporation and Gravimetric	USDOI/USGS
4500-O3	Residual Ozone by Indigo Colorimetric Method	APHA
4500-CL(E)	Residual Chlorine in Water by Titration- Low-Level Amperometri	APHA
4500-CL(C)	Residual Chlorine in Water by Titration- Iodometric Method II	APHA
4500-CL(B)	Residual Chlorine in Water by Titration- Iodometric Method I	APHA
4500-CL(F)	Residual Chlorine in Water by Titration- DPD Ferrous Method	APHA
4500-CL(D)	Residual Chlorine in Water by Titration- Amperometric Method	APHA
D1253	Residual Chlorine in Water	ASTM
4500-CL(I)	Residual Chlorine by Iodometric Electrode Technique	APHA
4500-CL(H)	Residual Chlorine by FACTS- Syringaldazine Method	APHA
4500-CL(G)	Residual Chlorine by Colorimetry- DPD Colorimetric Method	APHA
1RM-5	Release of Mercury from Mercury Cell	ENV/CANADA
MS100	Reflectometry-Based Instrument	USDOE/ASD
D4994(B)	Recovery of Viruses by Sonication	ASTM
D4994(A)	Recovery of Viruses by Adsorption	ASTM
D5244	Recovery of Enteroviruses from Waters	ASTM
8048	Reactive Phosphorus in Water	HACH
NITRO-20	Reactive Nitrite in Seawater	USDOC/NOAA
NITRO-19	Reactive Nitrate in Seawater	USDOC/NOAA
002(W)	Radon-222 in Water	USEPA
RN-01	Radon-222 in Air and Breath Samples	USDOE/EML
002(A)	Radon-222 in Air	USEPA
D5072	Radon in Drinking Water	ASTM
RA-05	Radium-228 in Water Samples	USEPA
904	Radium-228 in Drinking Water	USEPA
9320	Radium-228	USEPA
R1142	Radium-228	USDOI/USGS
RA-03	Radium-226 in Water Samples	USEPA
D3454	Radium-226 in Water by Radon Scintillation	ASTM
RA-02	Radium-226 in Urine	USEPA
RA-01	Radium-226 in Solids	USEPA

903.1	Radium-226 in Drinking Water	USEPA
RA-01	Radium-226 in Bone Ash	USDOE/EML
RP450	Radium-226 in Aqueous Samples	USDOE/ASD
RA-04	Radium-226 De-emanation Procedure	USEPA
004(W)	Radium-226 and Radium-228 in Water	USEPA
004(S)	Radium-226 and Radium-228 in Soil	USEPA
004(A)	Radium-226 and Radium-228 in Air	USEPA
RA-03	Radium-226 - Emanation Procedure	USDOE/EML
RA-02	Radium-226 - Chromate Method	USDOE/EML
R1141	Radium-226	USDOI/USGS
RA-04	Radium-226	USDOE/EML
RA-05	Radium-226	USDOE/EML
RA-07	Radium-226	USDOE/EML
RA-06	Radium-224	USDOE/EML
7500-RA(D)	Radium in Water by Sequential Precipitation	APHA
7500-RA(B)	Radium in Water by Precipitation	APHA
7500-RA(C)	Radium in Water by Emanation	APHA
900.1	Radium in Drinking Water	USEPA
903	Radium in Drinking Water	USEPA
R1140	Radium	USDOI/USGS
SR-02	Radiostrontium in Milk	USEPA
SR-01	Radiostrontium in Food Ash and Solids	USEPA
SR-04	Radiostrontium in Aqueous Media	USEPA
R1150	Radioruthenium	USDOI/USGS
D2460	Radionuclides of Radium in Water	ASTM
RS100	Radionuclides by Borehole Logging	USDOE/ASD
114	Radionuclide Emissions	USEPA
905	Radioactive Strontium in Water	USEPA
D4922	Radioactive Iron in Water	ASTM
902	Radioactive Iodine in Water	USEPA
7500-I-B	Radioactive Iodine by Precipitation	APHA
7500-I-C	Radioactive Iodine by Ion-Exchange	APHA
7500-I-D	Radioactive Iodine by Distillation	APHA
D2334(A)	Radioactive Iodine - Ion-Exchange	ASTM
D2334(C)	Radioactive Iodine - Extraction	ASTM
D2334(B)	Radioactive Iodine - Distillation	ASTM
901	Radioactive Cesium in Drinking Water	USEPA
7500-CS(B)	Radioactive Cesium	APHA
PMD-QAC(TIT2)	Quaternary Ammonium Compounds, Epton Titr.	USEPA
PMD-QAC(COLR)	Quaternary Ammonium Compounds Qualitative	USEPA
PMD-QAC(TIT1)	Quaternary Ammonium Compounds Ferricyanide	USEPA
960.14(A)	Quaternary Ammonium Compounds	AOAC
960.14(B)	Quaternary Ammonium Compounds	AOAC
PMD-QAC(TD)	Quaternary Ammonium Compound Technical Data	USEPA
PMD-QAC(TIT3)	Quaternary Ammonium Cl and Br by Titration	USEPA
R-001-1	QC for Alpha/Beta Sample Analysis	USEPA
1613	Pyridine by GC/FID	NIOSH
5008	Pyrethrum by HPLC/UV	NIOSH
PMD-PYR(TD)	Pyrethrins, Technical Data	USEPA
PMD-PYR(GC2)	Pyrethrins, MGK-264 and PBTO by HPLC	USEPA
PMD-PYR(LC2)	Pyrethrins, MGK-264 and PBTO by HPLC	USEPA
PMD-PYR(TITR)	Pyrethrins I and II by Titration	USEPA

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PMD-PYR(LC1)	Pyrethrins by HPLC	USEPA
PMD-PYR(GC1)	Pyrethrins by GC/FID	USEPA
1660	Pyrethrins and Pyrethroids in Water	USEPA
PMD-PYA(UV)	Pyrazon by UV Spectroscopy	USEPA
PMD-PYA(IR)	Pyrazon by IR Spectroscopy	USEPA
524.1	Purgeable Organics in Water by GC/MS	USEPA
524.2	Purgeable Organics in Water by CGC/MS	USEPA
D3871	Purgeable Organics in Water	ASTM
624	Purgeable Organics in Wastewater	USEPA
SFSAS_7	Purgeable Organics in Sediment	USEPA
SFSAS_5	Purgeable Organics in Fish	USEPA
9021	Purgeable Organic Halides in Water	USEPA
O3115	Purgeable Organic Compounds in Water	USDOI/USGS
601	Purgeable Halocarbons in Wastewater	USEPA
602	Purgeable Aromatics in Wastewater by GC	USEPA
B0105	Pseudomonas aeruginosa- Plate Count	USDOI/USGS
D5246	Pseudomonas aeruginosa	ASTM
9711-C	Protozoa: Entamoeba histolytica in Water	APHA
1612	Propylene Oxide by GC/FID	NIOSH
PMD-POJ	Propylene Glycol by GC/TCD	USEPA
1013	Propylene Dichloride by GC/ECD	NIOSH
PMD-PPD	Propionic Acid by GC/FID	USEPA
PMD-POT(IR)	Propargite by IR Spectroscopy	USEPA
PMD-POT(GC)	Propargite by GC/TCD	USEPA
PMD-POD	Prometon and Simazine by GC/FID	USEPA
PM-02	Promethium-147 in Feces Ash	USEPA
PM-01	Promethium-147 in Aqueous and Urine Samples	USEPA
B8040	Productivity- Oxygen Light/Dark-Enclosure Method for Periphyto	USDOI/USGS
B8001	Productivity- Oxygen Light/Dark-Bottle Method for Phytoplanktor	USDOI/USGS
B8020	Productivity- Carbon-14 Light/Dark-Bottle Method for Phytoplank	USDOI/USGS
B8120	Productivity & Community Metabolism by Diel O2-Curve Stream:	USDOI/USGS
B8100	Productivity & Community Matabolism by Diel O2-Curve Stratifie	USDOI/USGS
PMD-PNM(LC)	Prochloraz by HPLC	USEPA
PMD-PNM(GC)	Prochloraz by GC/FID	USEPA
4500-F-B	Preliminary Distillation of Fluoride	APHA
3500-K-E	Potassium in Water Using an ISE	APHA
3500-K-C	Potassium in Water by ICP	APHA
3500-K-D	Potassium in Water by Flame Photometry	APHA
3500-K-B	Potassium in Water by FLAA	APHA
D4192	Potassium in Water by FLAA	ASTM
I1630(W)	Potassium in Water by FLAA	USDOI/USGS
I3631	Potassium in Water by FLAA	USDOI/USGS
973.53	Potassium in Water	AOAC
I1630(S)	Potassium in Bottom Material by FLAA	USDOI/USGS
258.1	Potassium by FLAA	USEPA
7610	Potassium by FLAA	USEPA
258.1_M	Potassium by FLAA	USEPA
5506	Polynuclear Aromatic Hydrocarbons, HPLC	NIOSH
1654	Polynuclear Aromatic Hydrocarbons in Oil	USEPA
610	Polynuclear Aromatic Hydrocarbons by GC	USEPA
5515	Polynuclear Aromatic Hydrocarbons by GC	NIOSH
8100	Polynuclear Aromatic Hydrocarbons by GC	USEPA

6440-C	Polynuclear Aromatic Hydrocarbons by GC	APHA
8310	Polynuclear Aromatic Hydrocarbons	USEPA
6440-B	Polynuclear Aromatic Hydrocarbons	APHA
O3113	Polynuclear Aromatic Hydrocarbons	USDOI/USGS
PAH-006	Polycyclic Aromatic Hydrocarbons in Water	USEPA
PAH-005	Polycyclic Aromatic Hydrocarbons in Soil	USEPA
550	Polycyclic Aromatic Hydrocarbons by HPLC	USEPA
550.1	Polycyclic Aromatic Hydrocarbons by HPLC	USEPA
D5412	Polycyclic Aromatic Hydrocarbon Mixtures	ASTM
8280(S)	Polychlorinated Dioxins and Furans	USEPA
8280A(O)	Polychlorinated Dioxins and Furans	USEPA
8280A(S)	Polychlorinated Dioxins and Furans	USEPA
8280A(W)	Polychlorinated Dioxins and Furans	USEPA
6431-B	Polychlorinated Biphenyls in Water by GC	APHA
8004	Polychlorobiphenyls in Serum by GC/ECD	NIOSH
5503	Polychlorobiphenyls by GC/ECD	NIOSH
5517	Polychlorobenzenes by GC/ECD	NIOSH
8290	Polychlorinated PCDDs and PCDFs by HRGC/HRMS	USEPA
8280(W)	Polychlorinated Dioxins and Furans	USEPA
6431-C	Polychlorinated Biphenyls in Water by GC	APHA
PMD-PBS	Polybrominated Salicylanilides by UV	USEPA
6 (PO-210)	Polonium-210 in Soil and Air Filters	USEPA
111	Polonium-210 Emissions	USEPA
PO_02(W)	Polonium in Water and Vegetation	USDOE/EML
PO_01	Polonium in Water and Urine	USDOE/EML
PO_02(S)	Polonium in Soil and Air Filters	USDOE/EML
985.43	Poliovirus 1 in Oysters	AOAC
5033	p-Nitroaniline by HPLC	NIOSH
200.62(B)	Pneumatic Nebulization ICP Analysis	USEPA
PMD-VAE	PMP by UV Spectroscopy	USEPA
PU-02	Plutonium-236 Tracer Solution	USEPA
005(W)	Plutonium, Uranium and Thorium in Water	USEPA
005(BT)	Plutonium, Uranium and Thorium in Tissue	USEPA
005(S)	Plutonium, Uranium and Thorium in Soil	USEPA
005(A)	Plutonium, Uranium and Thorium in Air	USEPA
00-04	Plutonium, Thorium & Uranium in Air Filters	USEPA
PU-01	Plutonium in Water and Ashed Samples	USEPA
D3865	Plutonium in Water	ASTM
PU_10	Plutonium in Water	USDOE/EML
PU_08	Plutonium in Vegetation Samples	USDOE/EML
PU_09	Plutonium in Vegetation Samples	USDOE/EML
PU_06	Plutonium in Urine	USDOE/EML
PU_04	Plutonium in Tissue	USDOE/EML
PU_05	Plutonium in Tissue	USDOE/EML
PU_02	Plutonium in Soil Samples	USDOE/EML
PU_03	Plutonium in Soil Residue	USDOE/EML
PU_07	Plutonium in Large Urine Samples	USDOE/EML
PU_01	Plutonium in Air Filters	USDOE/EML
00-09	Plutonium and Uranium in Milk	USEPA
3500-PT	Platinum in Water by FLAA	APHA
255.2	Platinum by GFAA	USEPA
255.1	Platinum by FLAA	USEPA

PMD-PJM	Pirimiphos-Methyl by GC/FID	USEPA
PMD-PJE(GC)	Pirimiphos-Ethyl by GC/FID	USEPA
PMD-PJB	Pirimicarb by UV Spectroscopy	USEPA
960.43	Piperonyl Butoxide Residues	AOAC
PMD-PIO	Piperonyl Butoxide Qualitative Test	USEPA
PMD-PIE(UV)	Pindone by UV Spectroscopy	USEPA
PMD-PIE(LC)	Pindone by HPLC	USEPA
B1520	Phytoplankton Enumeration- Inverted-Microscope Method	USDOI/USGS
B1505	Phytoplankton Enumeration- Counting Cell Method	USDOI/USGS
B1505	Phytoplankton Enumeration- Counting Cell Method	USDOI/USGS
10200-F	Phytoplankton Counting Techniques	APHA
5020	Phthalates by GC/FID	NIOSH
606	Phthalate Esters in Wastewater by GC	USEPA
8061	Phthalate Esters by Gas Chromatography	USEPA
8060(ECD)	Phthalate Esters by Gas Chromatography	USEPA
8060(FID)	Phthalate Esters by Gas Chromatography	USEPA
8061A	Phthalate Esters by Capillary GC/ECD	USEPA
506	Phthalate and Adipate Esters in Water	USEPA
OA-006-1	Photovac Portable GC for Soil/Water/Air	USEPA
P-01	Phosphorus-32 in Fish Muscle	USEPA
6402	Phosphorus Trichloride by Visible Spec.	NIOSH
4500-P-C	Phosphorus in Water by Vanadomolybdophosphoric Acid Colorimetry	APHA
4500-P-D	Phosphorus in Water by Stannous Chloride Titration	APHA
D515(B)	Phosphorus in Water by Digestion/Colorimetric Reduction	ASTM
4500-P-F	Phosphorus in Water by Colorimetry- Automated Ascorbic Acid Method	APHA
4500-P-E	Phosphorus in Water by Colorimetry- Ascorbic Acid Method	APHA
365_M	Phosphorus in Water by Colorimetry	USEPA
I2600(W)	Phosphorus in Water by Colorimetry	USDOI/USGS
D515(A)	Phosphorus in Water by Colorimetric Reduction	ASTM
973.55	Phosphorus in Water - Photometric	AOAC
973.56	Phosphorus in Water - Automated	AOAC
I2600(S)	Phosphorus in Solids by Colorimetry	USDOI/USGS
365.3	Phosphorus by Two Reagent Colorimetry	USEPA
365.2	Phosphorus by Single Reagent Colorimetry	USEPA
7905	Phosphorus by GC/FPD	NIOSH
PMD-P-HS	Phosphorus by Digestion and Gravimetry	USEPA
365.1	Phosphorus by Colorimetry	USEPA
I2599	Phosphorus by Auto-Discrete Colorimetry	USDOI/USGS
PHOS-1	Phosphorus - Colorimetric, Automated	USDOC/NOAA
PHOS-4	Phosphorus - Colorimetric	USDOC/NOAA
PHOS-3	Phosphorus - AutoAnalyzer	USDOC/NOAA
PHOS-5	Phosphorus - AutoAnalyzer	USDOC/NOAA
PHOS-2	Phosphorus - Ascorbic Acid	USDOC/NOAA
6002	Phosphine by UV-VIS Spectrometer	NIOSH
TO-6	Phosgene Determination in Air	USEPA
PMD-PGM	Phorate by IR Spectroscopy	USEPA
3518	Phenylhydrazine by Visible Absorption	NIOSH
1619	Phenyl Glycidyl Ether by GC/FID	NIOSH
2013	Phenyl Ether-Diphenyl Mixture by GC/FID	NIOSH
1617	Phenyl Ether by GC/FID	NIOSH
P-008-1	Phenoxyherbicides in Water	USEPA
P-007-1	Phenoxyherbicides in Soil/Sediment	USEPA

1658	Phenoxy-Acid Herbicides in Wastewater	USEPA
PMD-PFI	Phenothiazine by IR Spectroscopy	USEPA
5530-D	Phenols in Water by Spectrophotometry- Direct Photometric Me	APHA
5530-C	Phenols in Water by Spectrophotometry- Chloroform Extraction	APHA
D2580	Phenols in Water by Gas-Liquid Chromatograph	ASTM
6420-BA	Phenols in Water by Gas Chromatography	APHA
6420-BB	Phenols in Water by Gas Chromatography	APHA
6420-C	Phenols in Water by Gas Chromatography	APHA
O-005-1	Phenols in Water and Soil by GC	USEPA
8047	Phenols in Water	HACH
604(A)	Phenols in Wastewater by GC/FID	USEPA
604(B)	Phenols in Wastewater by GC/ECD	USEPA
SFSAS_10	Phenols in Sediment	USEPA
8040A(ECD)	Phenols by Gas Chromatography	USEPA
8040A(FID)	Phenols by Gas Chromatography	USEPA
8041	Phenols by Capillary Column GC	USEPA
PMD-PFH(TD)	Phenols and Chlorophenols Technical Data	USEPA
PMD-PFH(GC)	Phenols and Chlorophenols by GC/TCD	USEPA
D1783(A)	Phenolic Compounds in Water	ASTM
D1783(B)	Phenolic Compounds in Water	ASTM
8305	Phenol and p-Cresol in Urine by GC/FID	NIOSH
9041A	pH using Paper	USEPA
150.6	pH of Wet Deposition - pH Meter	IL/SWSD
D5128	pH of Water of Low Conductivity	ASTM
D5464(A)	pH of Water of Low Conductivity	ASTM
D5464(B)	pH of Water of Low Conductivity	ASTM
D1293(B)	pH of Water By Routine Measurement	ASTM
D1293(A)	pH of Water By Precise Lab Measurement	ASTM
973.41	pH of Water	AOAC
D5015	pH of Atmosphere	ASTM
M-02-PH	pH Measurements	USDOE/EML
9040A	pH in Water by Electrometric Measurement	USEPA
8156	pH in Water	HACH
4500-H	pH in Water	APHA
D4980(A)	pH in Waste - pH Paper	ASTM
D4980(B)	pH in Waste - pH Meter	ASTM
150.2_M	pH in Industrial Waste Materials	USEPA
150.2	pH by Continuous Monitoring	USEPA
150.1	pH	USEPA
HERL_003	Pesticides in Tissue and Human Milk	USEPA
HERL_026	Pesticides in Human Tissue and Milk	USEPA
HERL_004	Pesticides in Blood or Serum	USEPA
HERL_016	Pesticides in Air	USEPA
680	Pesticides and PCBs	USEPA
8080A	Pesticides and PCBs	USEPA
D4861	Pesticides and PCBs	ASTM
992.14	Pesticides and Metabolites in Water	AOAC
HERL_010	Pesticides and Metabolites in Tissue	USEPA
1618	Pesticides and Herbicides	USEPA
SFSAS_27	Permeability of Soil with Consolidometer	USEPA
SFSAS_26	Permeability of Soil with Back Pressure	USEPA
SFSAS_28	Permeability of Soil Using Constant-Head	USEPA

SFSAS_25	Permeability of Soil	USEPA
SFSAS_24	Permeability of Cohesionless Soil	USEPA
10300-C	Periphyton Sample Analysis	APHA
10300-D	Periphyton Primary Productivity	APHA
B3520	Periphyton- Gravimetric Method for Biomass Determination	USDOI/USGS
B3501	Periphyton Enumeration- Sedgwick-Rafter Method	USDOI/USGS
B3545	Periphyton Enumeration- Inverted-Microscope Method	USDOI/USGS
CTM-010	Perchloroethylene of Wet Waste Materials	USEPA
314	Perchlorate in Drinking Water using Ion Chromatography	USEPA
5032	Pentamidine Isethionate by HPLC	NIOSH
8303	Pentachlorophenol in Urine by GC/ECD	NIOSH
O-008-1	Pentachlorophenol in Soil by GC/ECD	USEPA
O-001-1	Pentachlorophenol in Soil	USEPA
8001	Pentachlorophenol in Blood by GC/ECD	NIOSH
HERL_005	Pentachlorophenol in Blood	USEPA
5512	Pentachlorophenol by HPLC/UV	NIOSH
PMD-PCP(LC)	Pentachlorophenol by HPLC	USEPA
PMD-PCP(GC)	Pentachlorophenol by GC/FID	USEPA
HERL_006	Pentachlorophenol and Salts in Urine	USEPA
2517	Pentachloroethane by GC/ECD	NIOSH
PMD-PIX	Pendimethalin by GC/TCD	USEPA
1673	PEG-600 by Derivatization and HPLC	USEPA
PMD-PAD(IR)	p-Dichlorobenzene by IR Spectroscopy	USEPA
PMD-PAD(GC)	p-Dichlorobenzene by GC	USEPA
2014	p-Chlorophenol by HPLC/UV	NIOSH
23	PCDDs and PCDFs in Air Emissions	USEPA
1RM-19	PCDDs and PCDFs	ENV/CANADA
DIOX(W)	PCDD and PCDF in Water by CGC/MS	USEPA
DIOX(S)	PCDD and PCDF in Soil by CGC/MS	USEPA
DIOX(O)	PCDD and PCDF in Chemical Waste by CGC/MS	USEPA
D3534(ECD)	PCBs in Water by Gas Chromatography	ASTM
D3534(ELCD)	PCBs in Water by Gas Chromatography	ASTM
PCB-003	PCBs in Water	USEPA
SFSAS_2	PCBs in Transformer Fluid and Waste Oil	USEPA
OG100R	PCBs in Solid Radioactive Wastes	USDOE/ASD
PCB-006	PCBs in Soil as Decachlorobiphenyl by GC	USEPA
PCB-009	PCBs in Soil and Oil	USEPA
OP100R	PCBs in Radioactive Wastes Using GC-ECD	USDOE/ASD
HERL_018	PCBs in Human Milk by Micro Method	USEPA
HERL_017	PCBs in Human Milk by Macro Method	USEPA
HERL_020	PCBs in Adipose Tissue	USEPA
8082(S)	PCBs as Aroclors by Capillary Column GC	USEPA
8082(W)	PCBs as Aroclors by Capillary Column GC	USEPA
PCB-005	PCBs and Pesticide in Soil	USEPA
990.07	PCBs (Aroclor 1254) in Serum by GC	AOAC
508A	PCB Screen by Perchlorination and GC	USEPA
D1704	Particulate Matter in Atmosphere	ASTM
2.11	Particulate Matter as PM10 in Atmosphere	USEPA
2.1 (PART.PM10)	Particulate Matter as PM10 in Atmosphere	USEPA
2530-B	Particulate Floatables in Water	APHA
5	Particulate Emissions in Air	USEPA
17	Particulate Emissions in Air	USEPA

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5A	Particulate Emissions in Air	USEPA
5D	Particulate Emissions in Air	USEPA
5E	Particulate Emissions in Air	USEPA
5G	Particulate Emissions in Air	USEPA
5H	Particulate Emissions in Air	USEPA
108	Particulate and Gaseous Arsenic	USEPA
D422	Particle-Size Analysis of Soils	ASTM
2560-D	Particle Counting by Light-Scattering	APHA
2560-C	Particle Counting by Light-Blockage	APHA
2560-B	Particle Counting by Electrical Sensing	APHA
PMD-PAR(GC)	Parathion in Carbaryl by GC/FID	USEPA
PMD-PAR(LC)	Parathion by HPLC	USEPA
5003	Paraquat by HPLC/UV	NIOSH
PMD-PAP	Paraquat by HPLC	USEPA
HERL_012	para-Nitrophenol in Urine	USEPA
3500-PD	Palladium in Water	APHA
253.2	Palladium by GFAA	USEPA
253.1	Palladium by FLAA	USEPA
D4657	PAHs in Water by HPLC/UV	ASTM
PAH-002	PAHs in Water by GC/FID	USEPA
8275A	PAHs and PCBs in Soils/Wastes: TE/GC/MS	USEPA
8311	Ozone in Water	HACH
1AP73-7	Ozone in the Atmosphere	ENV/CANADA
50APP-D	Ozone in the Atmosphere	USEPA
D5149	Ozone in Atmosphere - Chemiluminescence	ASTM
2350-E	Ozone Demand or Requirement of Water- Semi-Batch Method	APHA
2350-D	Ozone Demand or Requirement of Water- Batch Method	APHA
6601	Oxygen by Electrochemical Sensor	NIOSH
3A	Oxygen and Carbon Dioxide in Air	USEPA
973.45	Oxygen (Dissolved) in Water	AOAC
2580	Oxidation-Reduction Potential of Water	APHA
D1498	Oxidation-Reduction Potential for Water	ASTM
PMD-OXB	Oxamyl by HPLC	USEPA
PMD-OVO	Ovex by IR Spectroscopy	USEPA
5021	o-Terphenyl by Gas Chromatography	NIOSH
3500-OS	Osmium in Water by FLAA	APHA
7550	Osmium in Various Matrices by FLAA	USEPA
252.2	Osmium by GFAA	USEPA
252.1	Osmium by FLAA	USEPA
PMD-ORY	Oryazlin by UV Spectroscopy	USEPA
I1601	Orthophosphate-Phosphorus by Colorimetry	USDOI/USGS
I2598	Orthophosphate-Phosphorus by Colorimetry	USDOI/USGS
I2601	Orthophosphate-Phosphorus by Colorimetry	USDOI/USGS
I1602	Orthophosphate plus Hydrolyzable Phosphorous	USDOI/USGS
365.6	Orthophosphate in Wet Deposition	IL/SWSD
365.5	Orthophosphate in Water by Colorimetry	USEPA
5504	Organotin Compounds (as Sn) by HPLC/GFAA	NIOSH
PMD-TLC(OTP)	Organothiophosphates by TLC	USEPA
1657	Organophosphorus Pesticides in Water	USEPA
P-005-1	Organophosphorus Pesticides in Water	USEPA
P-006-1	Organophosphorus Pesticides in Soil	USEPA
622	Organophosphorus Pesticides III by GC	USEPA

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614.1	Organophosphorus Pesticides II	USEPA
614	Organophosphorus Pesticides I	USEPA
5600	Organophosphorus Pesticides by GC/FPD	NIOSH
8140	Organophosphorus Pesticides by GC	USEPA
8141(W)	Organophosphorus Compounds in Water	USEPA
8141A(W)	Organophosphorus Compounds in Water	USEPA
8141(S)	Organophosphorus Compounds in Soil by GC	USEPA
8141A(S)	Organophosphorus Compounds in Soil by GC	USEPA
231.1	Organophosphorous Residue for Fatty Food	USFDA
970.53	Organophos. Pesticide Residues - Sweep Osc.	AOAC
633	Organonitrogen Pesticides in Wastewater	USEPA
1656(ECD)	Organohalide Pesticides in Wastewater	USEPA
1656(HSD)	Organohalide Pesticides in Wastewater	USEPA
D5175	Organohalide Pesticides and PCBs by GC	ASTM
617	Organohalide Pesticides and PCBs	USEPA
505	Organohalide Pesticides and PCB in Water	USEPA
211.1	Organochlorine Residues for Fatty Foods	USFDA
6630-B	Organochlorine Pesticides in Water by GC	APHA
6630-C	Organochlorine Pesticides in Water by GC	APHA
6630-D	Organochlorine Pesticides in Water by GC	APHA
D3086	Organochlorine Pesticides in Water	ASTM
608.1	Organochlorine Pesticides in Wastewater	USEPA
608.2	Organochlorine Pesticides in Wastewater	USEPA
TO-10	Organochlorine Pesticides in Air	USEPA
608	Organochlorine Pesticides and PCBs by GC	USEPA
8081A(SNB)	Organochlorine Pesticides and PCBs by GC	USEPA
8081A(SWB)	Organochlorine Pesticides and PCBs by GC	USEPA
8081A(WNB)	Organochlorine Pesticides and PCBs by GC	USEPA
8081A(WWB)	Organochlorine Pesticides and PCBs by GC	USEPA
8081(S)	Organochlorine Pesticides and PCBs	USEPA
8081(W)	Organochlorine Pesticides and PCBs	USEPA
IP-8	Organochlorine Pesticides - Indoor Air	USEPA
983.21	Organochlorine Pesticide/PCB Residues	AOAC
984.21	Organochlorine Pesticide Residues in Fats	AOAC
990.06	Organochlorine Pesticide in Water by GC	AOAC
972.05	Organochlorine Pesticide Contamination	AOAC
O9104	Organochlorine Compounds in Fish Tissue	USDOI/USGS
O3104	Organochlorine and -phosphorous in Water	USDOI/USGS
O5104	Organochlorine and -phosphorous in Solid	USDOI/USGS
O7104	Organochlorine and -phosphorous in Solid	USDOI/USGS
970.52	Organo Pesticide Residues - Multiresidue	AOAC
985.22	Organo Pesticide Residues - GC	AOAC
968.24	Organo Pesticide Residue - Sweep Codist.	AOAC
974.22	Organo Pesticide Residue - Carbon Column	AOAC
6040-C	Organics in Water by Purge and Trap GC	APHA
525.1	Organics in Water by Gas Chromatography	USEPA
525.2	Organics in Water by Gas Chromatography	USEPA
624-S	Organics in Sludge - Volatiles	USEPA
625-S	Organics in Sludge - Base/Neutral and Acid	USEPA
SFSAS_16	Organics in Sediment	USEPA
SFSAS_6	Organics in Fish	USEPA
SFSAS_29	Organics in Biological Tissue	USEPA

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2540	Organics by HPLC/UV	NIOSH
1018	Organics by GC/FID	NIOSH
D4763	Organics by Fluorescence Spectroscopy	ASTM
6040-B	Organics by Closed Loop Stripping	APHA
OHC	Organics Analysis, Multi-Media, Hi-Conc	USEPA
3H-03	Organically Labeled Tritium	USDOE/EML
5110	Organic Phase Vapor Pressure in Waste	USEPA
1650	Organic Halides in Water	USEPA
D4744	Organic Halides in Water	ASTM
1648	Organic Halides by Neutron Activation	USEPA
1649	Organic Halides by Coulometry	USEPA
D4128	Organic Compounds in Water by GC/MS	ASTM
8000A	Organic Compounds by Gas Chromatography	USEPA
8000B	Organic Compounds by Gas Chromatography	USEPA
973.47	Organic Carbon in Water	AOAC
PMD-AS(TIT4)	Organic Arsenic by Digestion and Titration	USEPA
MC_PEST(S)	Organic Analysis For Pesticides/Aroclors	USEPA
MC_PEST(W)	Organic Analysis For Pesticides/Aroclors	USEPA
OM500R	Organic Acids in Mixed Hazard Waste by LC/MS	USDOE/ASD
HERL_001	Organchlorine Pesticides in Tissue	USEPA
D5243	Open-Channel Flow of Water at Culverts	ASTM
D5390	Open-Channel Flow Measurement by Palmer-Bowlus Flumes	ASTM
D3858	Open-Channel Flow Measurement by Area	ASTM
D5389	Open-Channel Flow Measurement by Acoustic Velocity Meter	ASTM
D4409	Open-Channel Flow by RECM	ASTM
D4408	Open-Channel Flow by Acoustic Means	ASTM
D1941	Open Channel Flow Measurement by Flume	ASTM
203B	Opacity of Emission - Time Exception Regs.	USEPA
203C	Opacity of Emission - Instantaneous Regs.	USEPA
9 (OPACITY)	Opacity of Air Emissions	USEPA
D5462	On-Line Measurement of Low Level DO	ASTM
8005	Oil and Grease in Water	HACH
9071A	Oil and Grease in Sludge and Sediment	USEPA
D4281(B)	Oil and Grease by Soxhlet Extraction	ASTM
D4281(A)	Oil and Grease by Liquid-Liquid Extraction	ASTM
5520-C	Oil and Grease by Infrared Spectroscopy	APHA
5520-B	Oil and Grease by Gravimetric Analysis	APHA
5520-D	Oil and Grease by Gravimetric Analysis	APHA
C-005-1	Oil and Grease by Extraction/Gravimetry	USEPA
D3921	Oil and Grease and Petroleum Hydrocarbons	ASTM
1652	Oil and Grease	USEPA
140.1	Odor in Water Using a Consistent Series	USEPA
2150	Odor in Water by Threshold Testing	APHA
D1292	Odor in Water	ASTM
TO-4	O-C Pesticides and PCB - Ambient Air	USEPA
430.1	NTA by Manual Colorimetric Determination	USEPA
430.2	NTA by Automated Colorimetric Analysis	USEPA
PMD-NOB	Norbormide by UV Spectroscopy	USEPA
3500-SE(G)	Nonvolatile Organic Selenium in Water	APHA
8321A	Non-Volatile Compounds by HPLC/TS/MS	USEPA
8325(CRT)	Non-Volatile Compounds by HPLC/PB/MS	USEPA
8325(DSK)	Non-Volatile Compounds by HPLC/PB/MS	USEPA

8325(LLE)	Non-Volatile Compounds by HPLC/PB/MS	USEPA
8321	Non-Volatile Compounds by HPLC	USEPA
5560-B	Non-Volatile and Volatile Organic Acids	APHA
5B	Nonsulfuric Acid Particulate Matter	USEPA
5F	Non-Sulfate Particulate Matter in Air	USEPA
25C	Nonmethane Organics in Landfill Gases	USEPA
TO-12	Non-Methane Organic in Ambient Air	USEPA
5540-D	Nonionic Surfactants as CTAS	APHA
8015A	Non-Halogenated Volatile Organics	USEPA
8015B	Non-Halogenated Organics Using GC/FID	USEPA
160.2	Non-Filterable Residue - TSS	USEPA
50APP-F	NO2 in Atmosphere - Chemiluminescence	USEPA
TO-7	N-Nitrosodimethylamine in Air	USEPA
531.1	N-Methylcarbamates in Water by HPLC	USEPA
8318(S)	n-Methylcarbamates by HPLC	USEPA
8318(W)	n-Methylcarbamates by HPLC	USEPA
975.4	N-Methylcarbamate Insecticide Residues	AOAC
991.06	N-Methylcarb.s in Drinking Water	AOAC
985.23	N-Methylcarb. Insecticide/Metabolite Residue	AOAC
6600	Nitrous Oxide by Infrared Spectrophotometry	NIOSH
607	Nitrosamines in Wastewater by GC	USEPA
8070	Nitrosamines by Gas Chromatography	USEPA
8070A	Nitrosamines by Gas Chromatography	USEPA
2522	Nitrosamine by GC/TEA	NIOSH
PMD-NTP(TIT1)	Nitrophenols by Titration	USEPA
PMD-NTP(TIT2)	Nitrophenols by Titration	USEPA
2527	Nitromethane GC/ECD	NIOSH
8332	Nitroglycerine by HPLC	USEPA
2507	Nitroglycerin GC/ECD	NIOSH
633.1	Nitrogen-Containing Pesticides in Water	USEPA
10002	Nitrogen, Ammonia, Electrode, Known Addition	HACH
10001	Nitrogen, Ammonia, Electrode	HACH
D3608	Nitrogen Oxides in Atmosphere	ASTM
20	Nitrogen Oxides and Sulfur Dioxide in Air	USEPA
7 (ATM NOX)	Nitrogen Oxide from Stationary Sources	USEPA
7A	Nitrogen Oxide from Stationary Sources	USEPA
7B	Nitrogen Oxide from Stationary Sources	USEPA
7C	Nitrogen Oxide from Stationary Sources	USEPA
7D	Nitrogen Oxide from Stationary Sources	USEPA
7E	Nitrogen Oxide from Stationary Sources	USEPA
D5176	Nitrogen in Water by Pyrolysis Detection	ASTM
2.3	Nitrogen Dioxide in the Atmosphere	USEPA
D1607	Nitrogen Dioxide in Atmosphere	ASTM
D1608	Nitrogen Dioxide in Atmosphere	ASTM
IP-5B	Nitrogen Dioxide - Air, Palmes Tubes	USEPA
IP-5A	Nitrogen Dioxide - Air, Luminescence	USEPA
IP-5C	Nitrogen Dioxide - Air, IONCHR	USEPA
D5475	Nitrogen and Phosphorus Pesticides in Water	ASTM
507	Nitrogen and Phosphorus Pesticides	USEPA
991.07	Nitrogen and Phosphorus in Drinking Water	AOAC
973.5	Nitrogen (Nitrate) in Water	AOAC
973.49(E)	Nitrogen (Ammonia) in Water	AOAC

973.49(F)	Nitrogen (Ammonia) in Water	AOAC
2526	Nitroethane by GC/FID	NIOSH
2005	Nitrobenzenes by GC/FID	NIOSH
8330(S)	Nitroaromatics and Nitramines by HPLC	USEPA
8330(W)	Nitroaromatics and Nitramines by HPLC	USEPA
609(B)	Nitroaromatics and Isophorone	USEPA
609(A)	Nitroaromatics and Isopherone by GC	USEPA
8091	Nitroaromatics and Cyclic Ketones	USEPA
8090(ECD)	Nitroaromatics and Cyclic Ketones	USEPA
8090(FID)	Nitroaromatics and Cyclic Ketones	USEPA
I1540	Nitrite-Nitrogen in Water by Colorimetry	USDOI/USGS
I2539	Nitrite-Nitrogen in Water by Colorimetry	USDOI/USGS
I2540	Nitrite-Nitrogen in Water by Colorimetry	USDOI/USGS
D3867(B)	Nitrite-Nitrate by Manual Cd Reduction	ASTM
D3867(A)	Nitrite-Nitrate Automated Cd Reduction	ASTM
I2543	Nitrite- plus Nitrate-Nitrogen in Water	USDOI/USGS
I2545(W)	Nitrite- Plus Nitrate-Nitrogen in Water	USDOI/USGS
I2545(S)	Nitrite- Plus Nitrate-Nitrogen in Solids	USDOI/USGS
NITRO-14	Nitrite Nitrogen in Water	USDOC/NOAA
NITRO-11	Nitrite Nitrogen in Seawater	USDOC/NOAA
NITRO-10	Nitrite Nitrogen in Saline Water	USDOC/NOAA
354.1	Nitrite Nitrogen by Spectrophotometry	USEPA
4500-NO2(C)	Nitrite in Water by Ion Chromatography	APHA
4500-NO2(B)	Nitrite in Water by Colorimetry	APHA
8507	Nitrite in Water	HACH
D3371	Nitriles in Aqueous Solution	ASTM
B0420	Nitrifying Bacteria- MPN Method	USDOI/USGS
6014	Nitric Oxide and Nitrogen Dioxide	NIOSH
353.1	Nitrate-Nitrite Nitrogen by Colorimetry	USEPA
353.2	Nitrate-Nitrite Nitrogen by Colorimetry	USEPA
353.3	Nitrate-Nitrite Nitrogen by Cd Reduction	USEPA
353.6	Nitrate-Nitrite in Wet Deposition	IL/SWSD
NITRO-8	Nitrate-Nitrite in Water	USDOC/NOAA
NITRO-9	Nitrate plus Nitrite Nitrogen	USDOC/NOAA
NITRO-15	Nitrate plus Nitrite in Sediment	USDOC/NOAA
NITRO-12	Nitrate Nitrogen in Saline Water	USDOC/NOAA
352.1	Nitrate Nitrogen by Colorimetry	USEPA
4500-NO3(D)	Nitrate in Water Using an ISE	APHA
4500-NO3(G)	Nitrate in Water- Titanous Chloride Reduction	APHA
4500-NO3(I)	Nitrate in Water- Cadmium Reduction Flow Injection	APHA
4500-NO3(E)	Nitrate in Water- Cadmium Reduction	APHA
4500-NO3(B)	Nitrate in Water by Ultraviolet Spectrophotometry	APHA
9200	Nitrate in Water by Spectrophotometry	USEPA
9200A	Nitrate in Water by Spectrophotometry	USEPA
9210	Nitrate in Water by ISE	USEPA
4500-NO3(C)	Nitrate in Water by Ion Chromatography	APHA
4500-NO3(H)	Nitrate in Water- Automated Hydrazine Reduction	APHA
4500-NO3(F)	Nitrate in Water- Automated Cadmium Reduction	APHA
353.2_M	Nitrate and Nitrite by Colorimetry	USEPA
RP330	Niobium-93m and 94 in Aqueous Solutions	USDOE/ASD
964.2	Nicotine Residues	AOAC
IP-2B	Nicotine in Indoor Air-Cassette	USEPA

IP-2A	Nicotine in Indoor Air - XAD-4	USEPA
D5075	Nicotine in Indoor Air - GC/NPD	ASTM
PMD-NIC	Nicotine by HPLC	USEPA
2544	Nicotine by GC/NPD	NIOSH
PMD-NCS	Nicosulfuron by HPLC	USEPA
3500-NI(C)	Nickel in Water by ICP	APHA
D1886(C)	Nickel in Water by GFAA	ASTM
I1501	Nickel in Water by GFAA	USDOI/USGS
3500-NI(B)	Nickel in Water by FLAA or GFAA	APHA
D1886(A)	Nickel in Water by FLAA	ASTM
I1499	Nickel in Water by FLAA	USDOI/USGS
I3499	Nickel in Water by FLAA	USDOI/USGS
I7499	Nickel in Water by FLAA	USDOI/USGS
D1886(B)	Nickel in Water by Chelation and FLAA	ASTM
I1500	Nickel in Water by Chelation and FLAA	USDOI/USGS
I3500	Nickel in Water by Chelation and FLAA	USDOI/USGS
I7500	Nickel in Water by Chelation and FLAA	USDOI/USGS
8037	Nickel in Water	HACH
I5499	Nickel in Bottom Material by FLAA	USDOI/USGS
6007	Nickel Carbonyl AA Graphite Furnace	NIOSH
249.2	Nickel by GFAA	USEPA
7521	Nickel by GFAA	USEPA
249.2_M	Nickel by GFAA	USEPA
249.1	Nickel by FLAA	USEPA
7520	Nickel by FLAA	USEPA
249.1_M	Nickel by FLAA	USEPA
RP300	Ni-59 and Ni-63 in Aqueous Samples	USDOE/ASD
I3860	Nephelometric Turbidity in Water	USDOI/USGS
PMD-NEB(UV)	Neburon by UV Spectroscopy	USEPA
PMD-NEB(IR)	Neburon by IR Spectroscopy	USEPA
2012	n-Butylamine by GC/FID	NIOSH
1616	n-Butyl Glycidyl Ether by GC/FID	NIOSH
PMD-NBL	Naptalam by UV Spectroscopy	USEPA
970.54	Naphthyleneacetic Pesticide Residues	AOAC
1550	Naphthas by GC/FID	NIOSH
PMD-NAP	Naphthaleneacetic Acid by HPLC	USEPA
D4962	NaI(Tl) Gamma-Ray Spectrometry of Water	ASTM
300.7	Na, NH ₄ , Mg, K and Ca - IONCHR	IL/SWSD
D3327	N, S, Ni and V in Waterborne Oils	ASTM
PMD-MBL	Myclobutanil by GC/FID	USEPA
991.09	Munition Residues in Soil by HPLC	AOAC
989.13	Motile Salmonella in Foods	AOAC
992.11	Motile and Nonmotile Salmonella in Foods	AOAC
PMD-MON(UV)	Monuron by UV Spectroscopy	USEPA
PMD-MON(IR)	Monuron by IR Spectroscopy	USEPA
PMD-MON(TITR)	Monuron by Hydrolysis and Titration	USEPA
3510	Monomethylhydrazine by Visible Spec.	NIOSH
3511	Monomethylaniline by GC/FID	NIOSH
5521	Monomeric Isocyanates by HPLC/UV	NIOSH
949.09	Monofluoroacetic Acid Pesticide Residues	AOAC
949.1	Monofluoroacetic Acid Pesticide Residues	AOAC
PMD-MOK(IR)	Monocrotophos by IR Spectroscopy	USEPA

PMD-MOK(GC)	Monocrotophos by GC/FID	USEPA
115	Monitoring for Radon-222	USEPA
3500-MO(C)	Molybdenum in Water by ICP	APHA
3500-MO(B)	Molybdenum in Water by FLAA	APHA
246.2	Molybdenum by GFAA	USEPA
7481	Molybdenum by GFAA	USEPA
246.1	Molybdenum by FLAA	USEPA
7480	Molybdenum by FLAA	USEPA
D3372	Molybdenum by Chelation and FLAA	ASTM
I1490	Molybdenum by Chelation and FLAA	USDOI/USGS
I3490	Molybdenum by Chelation and FLAA	USDOI/USGS
I5490	Molybdenum by Chelation and FLAA	USDOI/USGS
I7490	Molybdenum by Chelation and FLAA	USDOI/USGS
4	Moisture Content in Stack Gases	USEPA
920.202	Mn, I, Br, As and Boric Acid in Water	AOAC
E-SPEC(UV)	Minor Elements by Residue-UV	USDOI/USGS
E-SPEC(IR)	Minor Elements by Residue-IR	USDOI/USGS
E-SPEC(PRCP)	Minor Elements by Precipitation	USDOI/USGS
E-SPEC(CMPX)	Minor Elements by Complexing	USDOI/USGS
5026	Mineral Oil Mist by Infrared Spec.	NIOSH
410.1	Mid-Level Chemical Oxygen Demand	USEPA
952.25	Microchemical Determination of Sulfur	AOAC
955.48	Microchemical Determination of Sulfur	AOAC
975.53	Microchemical Determination of Sulfur	AOAC
976.29	Microchemical Determination of Sulfur	AOAC
957.18	Microchemical Determination of Phosphorus	AOAC
963.29	Microchemical Determination of Oxygen	AOAC
960.52	Microchemical Determination of Nitrogen	AOAC
961.16	Microchemical Determination of Fluorine	AOAC
952.24	Microchemical Determination of Br, Cl, or I	AOAC
974.36	Microchemical Determination of Br, Cl, or I	AOAC
956.07	Microchemical Determination of Alkoxy Group	AOAC
972.43	Microchemical Deter. of Carbon, H and N	AOAC
949.12	Microchemical Deter. of Carbon and Hydrogen	AOAC
D5465(A)	Microbial Counts from Waters by Plating	ASTM
D5465(B)	Microbial Counts from Waters by Plating	ASTM
D5465(C)	Microbial Counts from Water by Plating	ASTM
PMD-MHX	Mexacarbate by GC/TCD	USEPA
PMD-MGU(IR)	Metobromuron by IR Spectroscopy	USEPA
PMD-MGU(GC)	Metobromuron by GC/TCD	USEPA
1005	Methylene Chloride by GC/FID	NIOSH
425.1	Methylene Blue Active Substances	USEPA
D2330	Methylene Blue Active Substances	ASTM
O3111	Methylene Blue Active Substance in Water	USDOI/USGS
2521	Methylcyclohexanone by GC/FID	NIOSH
1404	Methylcyclohexane by GC/FID	NIOSH
1611	Methylal by GC/FID	NIOSH
2542	Methyl-, Ethyl- and n-Butyl Mercaptans	NIOSH
1615	Methyl tert-Butyl Ether by GC/FID	NIOSH
PMD-MGC	Methyl Nonyl Ketone (MNK) by GC/TCD	USEPA
2537	Methyl Methacrylate by GC/FID	NIOSH
1014	Methyl Iodide by GC/FID	NIOSH

8002	Methyl Ethyl Ketone, Ethanol and Toluene	NIOSH
3508	Methyl Ethyl Ketone Peroxide by VA Spec.	NIOSH
2500	Methyl Ethyl Ketone by GC/FID	NIOSH
1001	Methyl Chloride by GC/FID	NIOSH
1451	Methyl Cellosolve Acetate by GC/FID	NIOSH
1459	Methyl Acrylate by GC/FID	NIOSH
1458	Methyl Acetate by GC/FID	NIOSH
PMD-MEY(IR)	Methoxychlor by IR Spectroscopy	USEPA
PMD-MEY(LC)	Methoxychlor by HPLC	USEPA
PMD-MEY(GC)	Methoxychlor by GC/FID	USEPA
PMD-MET	Methoprene by Internal Standard GC	USEPA
PMD-MER	Methomyl by HPLC	USEPA
PMD-MEM	Methiocarb by IR Spectroscopy	USEPA
PMD-MEL	Methidathion by GC/FID	USEPA
2000	Methanol by GC/FID	NIOSH
6211-C	Methane in Water by Volumetric Analysis	APHA
6211-B	Methane in Water by Combustable Gas	APHA
D4185	Metals in Workplace Atmosphere by AAS	ASTM
200.8(W)	Metals in Waters by ICP/MS	USEPA
200.15	Metals in Water by Nebulization and ICP-AES	USEPA
3114-B	Metals in Water by Manual HYDAA	APHA
200.7(W)	Metals in Water by ICP-AES	USEPA
3120	Metals in Water by ICP	APHA
I1472	Metals in Water by ICP	USDOI/USGS
3113-B	Metals in Water by GFAA	APHA
3111-E	Metals in Water by FLAA- Extraction/Nitrous Oxide-Acetylene Fl.	APHA
3111-C	Metals in Water by FLAA- Extraction/Air-Acetylene Flame	APHA
3111-D	Metals in Water by FLAA- Direct Nitrous Oxide-Acetylene Flame	APHA
3111-B	Metals in Water by FLAA- Direct Air-Acetylene Flame	APHA
3114-C	Metals in Water by Continuous HYDAA	APHA
200.8(S)	Metals in Wastes by ICP/MS	USEPA
8310	Metals in Urine by ICP	NIOSH
990.08	Metals in Solid Wastes by ICP	AOAC
I-001-1	Metals in Soil by XRF	USEPA
200.7(S)	Metals in Soil by ICP-AES	USEPA
I5475	Metals in Sediment by HYDAA	USDOI/USGS
I5473	Metals in Sediment by FLAA	USDOI/USGS
I5474	Metals in Sediment by FLAA	USDOI/USGS
SFSAS_13	Metals in Sediment	USEPA
3040	Metals in Oils, Greases and Wax	USEPA
200.1	Metals in Marine Waters by ICP/MS	USEPA
OSW-A	Metals in Incinerator Exhausts	USEPA
200.11	Metals in Fish Tissue by ICP-AES	USEPA
SFSAS_14	Metals in Fish	USEPA
M-02-MTL(AAS)	Metals in Aqueous Solutions	USDOE/EML
M-02-MTL(AES)	Metals in Aqueous Solutions	USDOE/EML
29	Metals Emissions from Stationary Sources	USEPA
ITM-001	Metals Emissions from Stationary Sources	USEPA
200.9	Metals by Temperature Stabilized GFAA	USEPA
1620(D)	Metals by Semi-quantitative ICP Screen	USEPA
1620(B)	Metals by GFAA	USEPA
IM-003-1	Metals by Flame AA	USEPA

1620(A)	Metals by Calibrated ICP	USEPA
200	Metals by Atomic Absorption	USEPA
D4190	Metals by Argon Emission Spectroscopy	ASTM
3130	Metals by Anodic Stripping Voltammetry	APHA
PMD-MEA(IR)	Metaldehyde by IR Spectroscopy	USEPA
PMD-MEA(GC)	Metaldehyde by GC/TCD	USEPA
PMD-MFX	Metalaxyl by Internal Standard GC	USEPA
HERL_011	Metabolites or Hydrolysis Products	USEPA
10200-J	Metabolic Rate Measurements	APHA
PMD-MDZ	Merphos by Internal Standard GC	USEPA
3500-HG(C)	Mercury in Water by Spectrophotometry	APHA
1631	Mercury in Water by Oxidation, Purge and Trap, and CVAFS	USEPA
245.1_M	Mercury in Water by Manual CVAA	USEPA
245.3	Mercury in Water by HPLC	USEPA
245.1	Mercury in Water by CVAA	USEPA
3112-B	Mercury in Water by CVAA	APHA
3500-HG(B)	Mercury in Water by CVAA	APHA
I1462	Mercury in Water by CVAA	USDOI/USGS
I2462	Mercury in Water by CVAA	USDOI/USGS
I3462	Mercury in Water by CVAA	USDOI/USGS
I7462	Mercury in Water by CVAA	USDOI/USGS
245.2_M	Mercury in Water by Automated CVAA	USEPA
977.22	Mercury in Water	AOAC
245.6	Mercury in Tissue by CVAA	USEPA
7471A	Mercury in Solid or Semisolid Waste	USEPA
245.5_M	Mercury in Soil and Sediment by CVAA	USEPA
105	Mercury in Sewage Sludge	USEPA
245.5	Mercury in Sediment by CVAA	USEPA
SFSAS_11	Mercury in Sediment	USEPA
7470A	Mercury in Liquid Wastes by CVAA	USEPA
202.2_M/HG)	Mercury in Industrial Wastes by CVAA	USEPA
974.14	Mercury in Fish	AOAC
977.15	Mercury in Fish	AOAC
SFSAS_12	Mercury in Fish	USEPA
I5462	Mercury in Bottom Material by CVAA	USDOI/USGS
102	Mercury Emissions - Hydrogen Streams	USEPA
245.2	Mercury by CVAA	USEPA
I-005-1	Mercury by CVAA	USEPA
I-006-1	Mercury by CVAA	USEPA
6009	Mercury by Cold Vapor Atomic Absorption	NIOSH
7472	Mercury by ASV	USEPA
1620(C)	Mercury - CVAA	USEPA
HG-01	Mercury - AA Spectroscopy	USDOE/EML
640	Mercaptobenzothiazole in Wastewaters	USEPA
TB_253	Measurement of Water Color	NCASI
D3648(C)	Measurement of Radioactivity, Gamma	ASTM
D3648(B)	Measurement of Radioactivity, Beta	ASTM
D3648(A)	Measurement of Radioactivity, Alpha	ASTM
10029	m-ColiBlue24 Method of the Determination of Total Coliforms an	HACH
637	MBTS and TCMTB in Wastewater by HPLC	USEPA
8302	MBOCA in Urine by GC/ECD	NIOSH
PART_3	Maximum Total Trihalomethane Potential	USEPA

3500-MN(D)	Manganese in Water by Spectrophotometry	APHA
3500-MN(C)	Manganese in Water by ICP	APHA
D858(C)	Manganese in Water by GFAA	ASTM
I1455	Manganese in Water by GFAA	USDOI/USGS
3500-MN(B)	Manganese in Water by FLAA or GFAA	APHA
D858(A)	Manganese in Water by FLAA	ASTM
I1454	Manganese in Water by FLAA	USDOI/USGS
I3454	Manganese in Water by FLAA	USDOI/USGS
I7454	Manganese in Water by FLAA	USDOI/USGS
D858(B)	Manganese in Water by Chelation and FLAA	ASTM
I1456	Manganese in Water by Chelation and FLAA	USDOI/USGS
920.203	Manganese in Water	AOAC
8034	Manganese in Water	HACH
I5454	Manganese in Bottom Material by FLAA	USDOI/USGS
243.2	Manganese by GFAA	USEPA
7461	Manganese by GFAA	USEPA
243.2_M	Manganese by GFAA	USEPA
243.1	Manganese by FLAA	USEPA
7460	Manganese by FLAA	USEPA
243.1_M	Manganese by FLAA	USEPA
1601	Male-specific (F+) and Somatic Coliphage in Water by Two-step	USEPA
1602	Male-specific (F+) and Somatic Coliphage in Water by Single Ag	USEPA
963.24	Maleic Hydrazide Pesticide Residues	AOAC
PMD-MHY(UV)	Maleic Hydrazide by UV Spectroscopy	USEPA
PMD-MHY(LC)	Maleic Hydrazide (MH) by HPLC	USEPA
3512	Maleic Anhydride by HPLC/UV	NIOSH
PMD-MAL(IR)	Malathion by IR Spectroscopy	USEPA
PMD-MAL(LC)	Malathion by HPLC	USEPA
3500-MG(C)	Magnesium in Water by ICP	APHA
3500-MG(D)	Magnesium in Water by Gravimetric Analysis	APHA
3500-MG(B)	Magnesium in Water by FLAA	APHA
I1447	Magnesium in Water by FLAA	USDOI/USGS
I3447	Magnesium in Water by FLAA	USDOI/USGS
I7447	Magnesium in Water by FLAA	USDOI/USGS
I3448	Magnesium in Water by Direct EPA FLAA	USDOI/USGS
3500-MG(E)	Magnesium in Water by Calculation	APHA
920.2	Magnesium in Water	AOAC
I5447	Magnesium in Bottom Material by FLAA	USDOI/USGS
242.1	Magnesium by FLAA	USEPA
7450	Magnesium by FLAA	USEPA
242.1_M	Magnesium by FLAA	USEPA
10400-E	Macrophyton Productivity	APHA
10400-D	Macrophyton Population Estimates	APHA
B4520	Macrophytes- Distribution and Abundance (quantitative method)	USDOI/USGS
9 (TRITIUM)	Low Level Tritium in Water	USEPA
415.2	Low Level Total Organic Carbon in Water	USEPA
D4785	Low Level Iodine-131 in Water	ASTM
I-03	Low Level Iodine-131 in Milk	USEPA
410.2	Low Level Chemical Oxygen Demand	USEPA
LC_PEST	Low Concentration Water for Pesticides	USEPA
D3561	Lithium, Potassium and Sodium	ASTM
3500-LI(C)	Lithium in Water by ICP	APHA

3500-LI(D)	Lithium in Water by Flame Photometry	APHA
3500-LI(B)	Lithium in Water by FLAA	APHA
I1425	Lithium in Water by FLAA	USDOI/USGS
I3425	Lithium in Water by FLAA	USDOI/USGS
I7425	Lithium in Water by FLAA	USDOI/USGS
I5425	Lithium in Bottom Material by FLAA	USDOI/USGS
7430	Lithium by FLAA	USEPA
992.18	Listeria Species	AOAC
992.19	Listeria Species	AOAC
993.12	Listeria monocytogenes in Milk	AOAC
993.09	Listeria in Dairy, Seafood and Meats	AOAC
RI100	Liquid Scintillation Instrumentation	USDOE/ASD
PMD-LIU(UV)	Linuron by UV Spectroscopy	USEPA
PMD-LIU(IR)	Linuron by IR Spectroscopy	USEPA
PMD-LIU(LC)	Linuron by HPLC	USEPA
PMD-LIN	Lindane by IR Spectroscopy	USEPA
920.34	Lime Sulfur Solution and Dry Lime Sulfur	AOAC
O3109	Light Fuel Oils in Water	USDOI/USGS
PMD-LMG	Lemongrass Oil by GC/TCD	USEPA
PB-01	Lead-210 in Water and Solid Samples	USEPA
PB-01(W)	Lead-210 in Water	USDOE/EML
PB-01(F)	Lead-210 in Food	USDOE/EML
PB-01(B)	Lead-210 in Bone	USDOE/EML
PB-01(A)	Lead-210 in Air filters	USDOE/EML
00-03	Lead-210 and Polonium-210 in Dried Samples	USEPA
R1130	Lead-210	USDOI/USGS
7505	Lead Sulfide by X-Ray Powder Diffraction	NIOSH
3500-PB(D)	Lead in Water by Spectrophotometry	APHA
D3559(C)	Lead in Water by Polarography	ASTM
3500-PB(C)	Lead in Water by ICP	APHA
D3559(D)	Lead in Water by GFAA	ASTM
I1401	Lead in Water by GFAA	USDOI/USGS
3500-PB(B)	Lead in Water by FLAA or GFAA	APHA
D3559(A)	Lead in Water by FLAA	ASTM
I1399	Lead in Water by FLAA	USDOI/USGS
I3399	Lead in Water by FLAA	USDOI/USGS
I7399	Lead in Water by FLAA	USDOI/USGS
D3559(B)	Lead in Water by Chelation and FLAA	ASTM
I1400	Lead in Water by Chelation and FLAA	USDOI/USGS
I3400	Lead in Water by Chelation and FLAA	USDOI/USGS
I7400	Lead in Water by Chelation and FLAA	USDOI/USGS
8033	Lead in Water	HACH
2.8	Lead in Suspended Particulate Matter	USEPA
50APP-G	Lead in Particulate Matter	USEPA
972.23	Lead in Fish	AOAC
972.24	Lead in Fish	AOAC
I5399	Lead in Bottom Material by FLAA	USDOI/USGS
8003	Lead in Blood and Urine by FLAA	NIOSH
7105	Lead by GFAAS	NIOSH
239.2	Lead by GFAA	USEPA
7421	Lead by GFAA	USEPA
239.2_M	Lead by GFAA	USEPA

7082	Lead by Flame AAS	NIOSH
239.1	Lead by FLAA	USEPA
7420	Lead by FLAA	USEPA
239.1_M	Lead by FLAA	USEPA
1RM-7	Lead	ENV/CANADA
PMD-TFU	Lamprecid by UV Spectroscopy	USEPA
PMD-LTF(LC1)	Lactofen by HPLC	USEPA
PMD-LTF(LC2)	Lactofen by HPLC	USEPA
KR-01	Krypton-85 in Environmental Air Samples	USEPA
13	Krypton, Xenon and Tritiated Methane	USEPA
202.62(D)	KOH Fusion Samples by GFAA	USEPA
9222-F	Klebsiella- Membrane Filter Procedure	APHA
1301	Ketone II by GC/FID	NIOSH
1300	Ketone I by GC/FID	NIOSH
HERL_009	Kepone in Blood and Environmental Samples	USEPA
5508	Kepone by GC/ECD	NIOSH
PMD-KAR(IR)	Karbutilate by IR Spectroscopy	USEPA
PMD-KAR(LC)	Karbutilate by HPLC	USEPA
SE-01	Isotopic Uranium and Radium-226	USDOE/EML
U-02	Isotopic Uranium	USDOE/EML
U-03	Isotopic Uranium	USDOE/EML
12 (ISOTOPES)	Isotopic Analysis by NaI(Tl) Detector	USEPA
11	Isotopic Analysis by Ge(Li) Detector	USEPA
1620	Isopropyl Glycidyl Ether by GC/FID	NIOSH
1618	Isopropyl Ether by GC/FID	NIOSH
1454	Isopropyl Acetate by GC/FID	NIOSH
2508	Isophorone by GC/FID	NIOSH
RS551	Isolation of Technetium-99 by Anion Exchange	USDOE/ASD
D5259	Isolation and Enumeration of Enterococci	ASTM
D5392	Isolation and Enumeration of E. coli Bacteria	ASTM
FE-01	Iron-55 in Water Samples	USEPA
D1068(D)	Iron in Water Using Photometry	ASTM
D1068(C)	Iron in Water Using GFAA	ASTM
D1068(A)	Iron in Water Using Direct FLAA	ASTM
3500-FE(C)	Iron in Water by ICP	APHA
3500-FE(B)	Iron in Water by FLAA or GFAA	APHA
I1381	Iron in Water by FLAA	USDOI/USGS
I3381	Iron in Water by FLAA	USDOI/USGS
I7381	Iron in Water by FLAA	USDOI/USGS
3500-FE(D)	Iron in Water by Colorimetry	APHA
D1068(B)	Iron in Water by Chelation and FLAA	ASTM
920.197(A)	Iron in Water	AOAC
920.197(B)	Iron in Water	AOAC
I5381	Iron in Bottom Material by FLAA	USDOI/USGS
236.2	Iron by GFAA	USEPA
7381	Iron by GFAA	USEPA
236.2_M	Iron by GFAA	USEPA
236.1	Iron by FLAA	USEPA
7380	Iron by FLAA	USEPA
236.1_M	Iron by FLAA	USEPA
D932	Iron Bacteria in Water and Deposits	ASTM
3500-IR	Iridium in Water by FLAA	APHA

235.2	Iridium by GFAA	USEPA
235.1	Iridium by FLAA	USEPA
973.67	Iodine-131, Ba-140 and Cs-137 in Milk	AOAC
I-01	Iodine-131 in Milk	USDOE/EML
I-02	Iodine-131 in Milk	USEPA
I-01	Iodine-131 in Drinking Water	USEPA
RP230	Iodine-129 in Aqueous Solutions	USDOE/ASD
4500-I-C	Iodine in Water by Titration	APHA
4500-I-B	Iodine in Water by Spectrophotometry	APHA
6005	Iodine by Ion Chromatography	NIOSH
345.1	Iodide in Water by Titration	USEPA
I1370	Iodide in Water by Titration	USDOI/USGS
4500-I-(B)	Iodide in Water by Spectrophotometry- Leuco Crystal Violet Met	APHA
4500-I-(C)	Iodide in Water by Spectrophotometry- Catalytic Reduction Meth	APHA
I1371	Iodide in Water by Colorimetry	USDOI/USGS
D3869(C)	Iodide in Saline Water by ISE-I	ASTM
D3869(B)	Iodide in Saline Water by Colorimetry	ASTM
D3869(A)	Iodide and Bromide in Saline Water	ASTM
445	In-Vitro Determination of Chlorophyll	USEPA
IP-1A-C	Installation and Operation Procedure	USEPA
HERL_024	Insecticides in Soils and Housedust	USEPA
HERL_025	Insecticides in Bottom Sediment	USEPA
12 (ATM PB)	Inorganic Lead Emissions in Air	USEPA
1632	Inorganic Arsenic in Water by Hydride Generation Quartz Furnac	USEPA
PMD-AS(TIT3)	Inorganic Arsenic Compounds by Titration	USEPA
993.3	Inorganic Anions in Water	AOAC
300(A)	Inorganic Anions by Ion Chromatography	USEPA
300(B)	Inorganic Anions by Ion Chromatography	USEPA
920.13	Inorganic and Organometallic Pesticides	AOAC
HERL_030	Infrared Spectroscopy	USEPA
6010B	Inductively Coupled Plasma AES	USEPA
6020	Inductively Coupled Plasma - Mass Spec.	USEPA
6020_M	Inductively Coupled Plasma - Mass Spec.	USEPA
200.10_M	Inductively Coupled Plasma	USEPA
ICP-AES	Inductively Coupled Plasma	USEPA
PMD-INB	Indolebutyric Acid by UV Spectroscopy	USEPA
D4254	Index Density and Unit Weight of Soils	ASTM
9057	Impinger Solutions for Cl- by ICP	USEPA
9711-B	Immunofluorescence Method for Giarda & Crytosporidium	APHA
D4478(A)	Immediate Oxygen Uptake	ASTM
200.7_M	ICP-AES For Trace Element Analysis	USEPA
MM100	ICP/MS Radionuclide Analyses	USDOE/ASD
MM800	ICP/MS of Uranium in Water	USDOE/ASD
MM210	ICP/MS of Th230, Tc99 and U234	USDOE/ASD
6010A	ICP Spectroscopy	USEPA
D514	Hydroxide Ion in Water(discontinued 05/96)	ASTM
5004	Hydroquinone by HPLC	NIOSH
I2602	Hydrolyzable plus Orthophosphate-Phosphorous	USDOI/USGS
15	Hydrogen Sulfide, Carbonyl Sulfide	USEPA
INTERIM2	Hydrogen Sulfide Released from Wastes	USEPA
D4323	Hydrogen Sulfide in Atmosphere	ASTM
D4913	Hydrogen Sulfide in Air	ASTM

6013	Hydrogen Sulfide by Ion Chromatography	NIOSH
1SRM-1	Hydrogen Sulfide	ENV/CANADA
26A	Hydrogen Halide/Halogen by Isokinetic	USEPA
INTERIM1	Hydrogen Cyanide Released from Wastes	USEPA
6010	Hydrogen Cyanide by Visible Absorption	NIOSH
26	Hydrogen Chloride from Stationary Sources	USEPA
1RM-1	Hydrogen Chloride	ENV/CANADA
1500	Hydrocarbons, BP 36-126 C by GC/FID	NIOSH
50APP-E	Hydrocarbons in Atmosphere	USEPA
5520-F	Hydrocarbons by Gravimetric Analysis	APHA
200.62(C)	Hydride Generation ICP Analysis	USEPA
206.3_M	Hydride Generation ICP	USEPA
D1385	Hydrazine in Water	ASTM
3503	Hydrazine by Visible Absorption Spec.	NIOSH
D5084	Hydraulic Conductivity	ASTM
8301	Hippuric and Methyl Hippuric Acids	NIOSH
8300	Hippuric Acid in Urine by Visible Absorption	NIOSH
TO-2	Highly Volatile Nonpolar Organics	USEPA
D3649	High Resolution Gamma-Ray Spectrometry	ASTM
D888(A)	High Level Dissolved Oxygen by Titration	ASTM
PMD-HXO(LC)	Hexazinone by HPLC	USEPA
PMD-HXO(GC)	Hexazinone by GC/TCD	USEPA
7199	Hexavalent Chromium in Water by IC	USEPA
I1232	Hexavalent Chromium in Water by FLAA	USDOJ/USGS
8023	Hexavalent Chromium in Water	HACH
61	Hexavalent Chromium in Stack Emissions	USEPA
OSW-B	Hexavalent Chromium in Stack Emissions	USEPA
1636	Hexavalent Chromium in Ambient Water by Ion Chromatography	USEPA
7600	Hexavalent Chromium by UV-Visible Spec.	NIOSH
7198	Hexavalent Chromium by Polarography	USEPA
218.6	Hexavalent Chromium by Ion Chromatograph	USEPA
7604	Hexavalent Chromium by Ion Chromatograph	NIOSH
218.5	Hexavalent Chromium by GFAA	USEPA
218.4	Hexavalent Chromium by FLAA	USEPA
7197	Hexavalent Chromium by FLAA	USEPA
I1230	Hexavalent Chromium by Colorimetry	USDOJ/USGS
7195	Hexavalent Chromium (Coprecipitation)	USEPA
7196A	Hexavalent Chromium (Colorimetric)	USEPA
I-003-1	Hexavalent Chromium	USEPA
3820	Hexadecane Screening for Volatiles	USEPA
PMD-HXE	Hexachlorophene by HPLC	USEPA
604.1	Hexachlorophene and Dichlorophen	USEPA
2543	Hexachlorobutadiene by GC/ECD	NIOSH
977.19	Hexachlorobenzene/Mirex Residues in Fat	AOAC
980.22	Hexachlorobenzene/Mirex Residue in Adipose	AOAC
2518	Hexachloro-1,3-Cyclopentadiene by GC/ECD	NIOSH
9215-C	Heterotrophic Plate Count- Spread Plate Method	APHA
9215-B	Heterotrophic Plate Count- Pour Plate Method	APHA
9215-D	Heterotrophic Plate Count- Membrane Filter Method	APHA
8241	Heterotrophic Bacteria, Pour Plate	HACH
960.1	Herbicides (Ester Forms)	AOAC
3810	Headspace Technique for Volatiles	USEPA

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HERL_002	HCb and Mirex in Tissue	USEPA
SM2340B	Hardness, Ca, Mg	2:1FLORAN
973.52	Hardness of Water	AOAC
2340	Hardness in Water by EDTA Titration	APHA
D1126	Hardness in Water	ASTM
8010B	Halogenated Volatile Organics by GC	USEPA
VG-005-1	Halogenated VOCs in Soil Gas by GC/PID	USEPA
VG-002-1	Halogenated VOCs in Soil Gas by GC/ELCD	USEPA
VG-004-1	Halogenated VOCs in Soil Gas by GC/ECD	USEPA
VG-003-1	Halogenated VOCs in Soil Gas by GC/EC	USEPA
VA-002-1	Halogenated VOCs in Air by GC/ELCD	USEPA
VA-004-1	Halogenated VOCs in Air by Direct GC/EC	USEPA
D3973	Halogenated Hydrocarbons in Water	ASTM
1003	Halogenated Hydrocarbons by GC/FID	NIOSH
8021A(ELCD)	Halogenated and Aromatic Volatiles	USEPA
611	Haloethers in Wastewater by GC	USEPA
8110	Haloethers by Gas Chromatography	USEPA
8111(S)	Haloethers by Gas Chromatography	USEPA
8111(W)	Haloethers by Gas Chromatography	USEPA
552	Haloacetic Acids in Water by GC	USEPA
552.1	Haloacetic Acids in Water by GC	USEPA
6233-B	Haloacetic Acids and Trichlorophenol	APHA
8021A(PID)	Halo and Aromatic Volatiles - CGC/PID	USEPA
RP725	Group Actinide Screening by Extraction	USDOE/ASD
RP730	Gross Gamma Screening for Matrices	USDOE/ASD
R-004-1	Gross Alpha/Beta Activity in Water	USEPA
R-005-1	Gross Alpha/Beta Activity in Water	USEPA
R-002-1	Gross Alpha/Beta Activity in Soil	USEPA
R-008-1	Gross Alpha/Beta Activity in Biota, Extended	USEPA
R-007-1	Gross Alpha/Beta Activity in Biota	USEPA
RP720	Gross Alpha, Beta and Tritium in Water	USDOE/ASD
7110-C	Gross Alpha Radioactivity in Water	APHA
7110-B	Gross Alpha and Beta Radioactivity	APHA
3	Gross Alpha and Beta Activity in Water	USEPA
900	Gross Alpha and Beta Activity in Water	USEPA
00-01	Gross Alpha and Beta Activity in Water	USEPA
R-006-1	Gross Alpha and Beta Activity in Soil	USEPA
RP710	Gross Alpha and Beta Activity	USDOE/ASD
9310	Gross Alpha and Beta	USEPA
00-02	Gross Alpha Activity in Drinking Water by Coprecipitation	USEPA
3500-AU	Gold in Water by FLAA	APHA
231.2	Gold by GFAA	USEPA
231.1	Gold by FLAA	USEPA
547	Glyphosate in Drinking Water by HPLC	USEPA
6651-B	Glyphosate Herbicide in Water	APHA
PMD-GLP	Glyphosate by HPLC	USEPA
991.08	Glyphosate and AMPA in Environmental Water	AOAC
963.23	Glyodin Pesticide Residues	AOAC
1608	Glycidol by GC/FID	NIOSH
2532	Glutaraldehyde by HPLC/UV	NIOSH
EPD100.1	General Field Measurements	2:1FLORAN
D4490	Gases/Vapors by Detector Tubes	ASTM

18	Gaseous Organic Compound Emission in Air	USEPA
101	Gaseous Mercury in Air by CVAA	USEPA
101A	Gaseous Mercury from Sewage/Sludge Incinerators	USEPA
1RM-15	Gaseous Emissions from Fossil Boilers	ENV/CANADA
RI010	Gamma-Ray Spectrometry	USDOE/ASD
901.1	Gamma Emitters in Drinking Water	USEPA
2505	Furfuryl Alcohol by GC/FID	NIOSH
2529	Furfural Gas Chromatography/FID	NIOSH
C-012-1	Free Liquid in Wastes by Filtration	USEPA
D4282	Free Cyanide in Water by Microdiffusion	ASTM
8334	Free Chlorine in Water by Titration	HACH
8021	Free Chlorine in Water by DPD	HACH
2011	Formic Acid by Ion Chromatography	NIOSH
5700	Formaldehyde On Dust by HPLC/UV	NIOSH
6 (FORMALDEHYD)	Formaldehyde in Wastewater by GC	USEPA
8520	Formaldehyde in Ambient Air	USEPA
TO-11	Formaldehyde in Ambient Air	USEPA
IP-6C	Formaldehyde in Air - Passive Sampling	USEPA
IP-6B	Formaldehyde in Air - Colorimetric	USEPA
3500	Formaldehyde by Visible Absorption Spec.	NIOSH
2541	Formaldehyde by GC/FID	NIOSH
D5014	Formaldehyde - Indoor Air, MBTH	ASTM
IP-6A	Formaldehyde - Indoor Air, HPLC	USEPA
PMD-FON	Fonofos by IR Spectroscopy	USEPA
PMD-FOL	Folpet by IR Spectroscopy	USEPA
1006	Fluorotrichloromethane by GC/FID	NIOSH
7902	Fluorides, Aerosol and Gas, by ISE	NIOSH
7906	Fluorides, Aerosol and Gas, by IC	NIOSH
D4765	Fluorides in the Workplace Atmospheres	ASTM
D3266	Fluorides in the Atmosphere	ASTM
D3267	Fluorides in the Atmosphere	ASTM
D3268	Fluorides in the Atmosphere	ASTM
D3269(ISE)	Fluorides in Plants/Atmosphere	ASTM
D3269(SPEC)	Fluorides in Plants/Atmosphere	ASTM
D3269(TITR)	Fluorides in Plants/Atmosphere	ASTM
D3270	Fluorides in Plants/Atmosphere	ASTM
8323	Fluoride, Electrode	HACH
340.2_M	Fluoride with an Ion Selective Electrode	USEPA
D3868	Fluoride Ions in Saline Water	ASTM
D1179(B)	Fluoride Ion in Water Using ISE	ASTM
D1179(A)	Fluoride Ion in Water Using Distillation	ASTM
340.6	Fluoride in Wet Deposition	IL/SWSD
340.2	Fluoride in Water Using an ISE	USEPA
4500-F-C	Fluoride in Water Using an ISE	APHA
I1327	Fluoride in Water Using an ISE	USDOI/USGS
I2327	Fluoride in Water Using an ISE	USDOI/USGS
I4327	Fluoride in Water Using an ISE	USDOI/USGS
I7327	Fluoride in Water Using an ISE	USDOI/USGS
4500-F-D	Fluoride in Water by Spectrophotometry	APHA
9214	Fluoride in Water by ISE	USEPA
4500-F-F	Fluoride in Water by Ion Chromatography	APHA
340.3	Fluoride in Water by Colorimetry	USEPA

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4500-F-E	Fluoride in Water by Colorimetry	APHA
I1325	Fluoride in Water by Colorimetry	USDOI/USGS
I3325	Fluoride in Water by Colorimetry	USDOI/USGS
I7325	Fluoride in Water by Colorimetry	USDOI/USGS
939.11	Fluoride in Water	AOAC
8029	Fluoride in Water	HACH
8308	Fluoride in Urine by ISE	NIOSH
F-01	Fluoride in Soil and Sediment	USDOE/EML
PMD-FLM(UV)	Fluometuron by UV Spectroscopy	USEPA
PMD-FLM(IR)	Fluometuron by IR Spectroscopy	USEPA
PMD-FKN	Fluchloralin by GC/TCD	USEPA
SFSAS_23	Flow of Water Through Soil	USEPA
D5130	Flow of Water Indirectly by Slope Area	ASTM
D5129	Flow of Water by Width Contractions	ASTM
2530-C	Floatable Oil and Grease in Water	APHA
2540-E	Fixed and Volatile Solids in Water	APHA
160.1	Filterable Residue - TDS	USEPA
OA-001-1	Field Use of Sentex Scentograph GC	USEPA
OA-004-1	Field Use of Photovac Portable GC	USEPA
OA-005-1	Field Use of Photovac Portable GC	USEPA
OA-003-1	Field Survey with PID Vapor Detector	USEPA
S-002-1	Field Screening Semivolatiles in Water	USEPA
S-004-1	Field Screening Semivolatiles in Soil	USEPA
PCB-002	Field Screening of PCBs in Soil	USEPA
IM-002-1	Field Screening by Portable XRF	USEPA
P-002-1	Field Screen for Chlorinated Pesticides	USEPA
P-004-1	Field Screen for Chlorinated Pesticides	USEPA
FT1400	Field Measurement of Temperature	21FLORAN
FT1800	Field Measurement of Stream Flow	21FLORAN
FT1200	Field Measurement of Specific Conductance	21FLORAN
FT1700	Field Measurement of Light Penetration (Secchi Depth and Tran	21FLORAN
FT1100	Field Measurement of Hydrogen Ion Activity (pH)	21FLORAN
FT1500	Field Measurement of Dissolved Oxygen	21FLORAN
PCB-008	Field Analysis of PCBs in Soil	USEPA
PAH-001(S)	Field Analysis of PAHs by GC/FID	USEPA
PAH-001(W)	Field Analysis of PAHs by GC/FID	USEPA
PMD-FBR	Fenarimol by GC/FID	USEPA
PMD-FBP	Fenamiphos by GC/FID	USEPA
9230-B	Fecal Streptococcus and Enterococcus, Multi-tube Fermentation	APHA
9230-C	Fecal Streptococcus and Enterococcus, Membrane Filter Techn	APHA
8172	Fecal Streptococci, MPN	HACH
B0065	Fecal Streptococcal Bacteria- Presumptive/Confirmation- MPN M	USDOI/USGS
B0055	Fecal Streptococcal Bacteria- Immediate Incubation Test	USDOI/USGS
B0060	Fecal Streptococcal Bacteria- Confirmation Test	USDOI/USGS
10027	Fecal Coliforms, MPN (sludges)	HACH
10028	Fecal Coliforms, MPN (sludges)	HACH
978.23	Fecal Coliforms in Shellfish Waters	AOAC
9222-E	Fecal Coliform- Delayed-Incubation Procedure	APHA
B0051	Fecal Coliform Bacteria- Presumptive Test- MPN Method	USDOI/USGS
B0050	Fecal Coliform Bacteria- Immediate Incubation Test	USDOI/USGS
9031	Extractable Sulfides by Titration	USEPA
6410-B	Extractable Semivolatile Organics by GC	APHA

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9023	Extractable Organic Halides in Solids	USEPA
O3108	Extractable Oil and Grease in Water	USDOI/USGS
O5108	Extractable Oil and Grease	USDOI/USGS
1664	Extractable Material in Oil and Grease	USEPA
1662	Extractable Material in Mud by SDS	USEPA
3514	Ethylenimine by HPLC/UV	NIOSH
978.16	Ethylenethiourea Pesticide Residues - GC	AOAC
PMD-MAU(GC1)	Ethylenethiourea by GC/TCD	USEPA
PMD-MAU(GC2)	Ethylenethiourea by GC/FID	USEPA
992.31	Ethylene Thiourea Residues in Water	AOAC
509	Ethylene Thiourea in Water by GC	USEPA
5011	Ethylene Thiourea by Visible Absorption	NIOSH
D4413	Ethylene Oxide in Atmosphere	ASTM
3702	Ethylene Oxide by portable GC	NIOSH
1614	Ethylene Oxide by GC/ECD	NIOSH
SFSAS_17	Ethylene Glycol in Water	USEPA
1008	Ethylene Dibromide by GC/ECD	NIOSH
2513	Ethylene Chlorohydrin by GC/FID	NIOSH
O3114	Ethylene and Propane in Water	USDOI/USGS
973.39	Ethylan Pesticide Residues - GC	AOAC
PMD-EUX(GC)	Ethyl Hexanediol by GC/TCD	USEPA
PMD-EUX(TITR)	Ethyl Hexanediol by Acetylation & Titration	USEPA
1452	Ethyl Formate by GC/FID	NIOSH
1610	Ethyl Ether by GC/FID	NIOSH
2519	Ethyl Chloride by GC/FID	NIOSH
1011	Ethyl Bromide by GC/FID	NIOSH
1457	Ethyl Acetate by GC/FID	NIOSH
PMD-ETN(IR)	Ethoprop by IR Spectroscopy	USEPA
PMD-ETN(GC)	Ethoprop by GC	USEPA
PMD-ETF	Ethofumesate by GC	USEPA
PMD-EZN	Ethiozin by HPLC	USEPA
PMD-ETI(IR)	Ethion by IR Spectroscopy	USEPA
PMD-ETI(GC)	Ethion by GC	USEPA
9221-E	Estimation of Fecal Coliform Group Density, Multi-tube Fermentation Technique	APHA
9221-C	Estimation of Coliform Group Density, Multi-tube Fermentation Technique	APHA
9221-D	Estimation of Bacterial Density- MPN Determination	APHA
1450	Esters I by GC/FID	NIOSH
9221-F	Escherichia coli, Multi-tube Fermentation Technique	APHA
1603	Escherichia coli in Water by Membrane Filtration Using Modified Membrane Filtration	USEPA
1103.1	Escherichia coli in Water by Membrane Filtration Using membrane Filtration	USEPA
9221-B.1	Escherichia coli Fermentation Technique, Multi-tube Fermentation Technique	APHA
PMD-EPT	EPTC by HPLC	USEPA
5012	EPN by GC/FPD	NIOSH
1010	Epichlorohydrin by GC/FID	NIOSH
PMD-EPI	Epichlorohydrin by GC	USEPA
9223-B	Enzyme Substrate Test, E. coli, Coliform Group	APHA
D4249	Enumeration of Candida albicans in Water	ASTM
9240-B	Enumeration-Enrichment & Isolation of Iron and Sulfur Bacteria	APHA
986.34	Enterotoxigenic E. coli	AOAC
ENTEROLERT	Enterolert Quanti-Tray; Multi Tube, Multi Well, for Enterococci	IDEXX
ENTEROLERT2000	Enterolert Quanti-Tray/2000; Multi Tube, Multi Well, for Enterococci	IDEXX
1106.1	Enterococci in Water by Membrane Filtration Using membrane Filtration	USEPA

1600	Enterococci in Water by Membrane Filtration Using membrane-filtration	USEPA
1106_1	Enterococci in Water by Membrane Filter	USEPA
5.6	Enteric Viruses	APHA
5519	Endrin by GC/ECD	NIOSH
548	Endothall in Water by Gas Chromatography	USEPA
548.1	Endothall in Drinking Water	USEPA
PMD-ENB(TITR)	Endothall by Titration	USEPA
PMD-ENB(GC)	Endothall by GC	USEPA
976.23	Endosulfan/Tetrasul Pesticide Residues	AOAC
PMD-ENA	Endosulfan by IR Spectroscopy	USEPA
305	Emissions of Volatiles in Waste	USEPA
D4691	Elements in Water Using FLAA	ASTM
200.12	Elements in Water by Temperature GFAA	USEPA
D1976	Elements in Water by ICP	ASTM
200.13	Elements in Water by Chelation with GFAA	USEPA
8005(B)	Elements in blood or tissue by ICP	NIOSH
8005(T)	Elements in blood or tissue by ICP	NIOSH
7300	Elements by ICP	NIOSH
G-01	Electrodeposition of the Actinides	USDOE/EML
D5391	Electrical Conductivity and Resistivity	ASTM
RA010	EIC for Gross Alpha Emission from Indoor	USDOE/ASD
PMD-EDF	Edifenphos by GC	USEPA
504.1	EDB, DBCP and 123TCP in Water by GC	USEPA
504	EDB and DBCP in Water by GC	USEPA
6231-C	EDB and DBCP in Water by CGC/MS	APHA
6231-B	EDB and DBCP in Water by CGC	APHA
6231-D	EDB and DBCP in Water by CGC	APHA
D5316	EDB and DBCP by Microextraction and GC	ASTM
8011	EDB and DBCP by Gas Chromatography	USEPA
984.34	E. coli Producing Heat-Labile Enterotoxin	AOAC
9213D	E. coli method	APHA
1103_1	E. coli in Water by Membrane Filtration	USEPA
1104	E. coli in Drinking Water/EC Medium with Mug Tub	USEPA
988.19	E. Coli in Chilled/Frozen Food	AOAC
984.35	E. coli Enterotoxins	AOAC
5013	Dyes, Benzidine, o-Tolidine, o-Dianisidi	NIOSH
964.19	Dodine Pesticide Residues	AOAC
PMD-DUR(IR)	Diuron by IR Spectroscopy	USEPA
PMD-DUR(LC)	Diuron by HPLC	USEPA
630.1	Dithiocarbamate Pesticides in Water	USEPA
630	Dithiocarbamate Pesticides in Wastewater	USEPA
PMD-DSN(IR)	Disulfoton by IR Spectroscopy	USEPA
PMD-DSN(GC)	Disulfoton and Fensulfothion by GC/FID	USEPA
370.1	Dissolved Silica by Colorimetry	USEPA
I1600	Dissolved Phosphorus by Colorimetry	USDOI/USGS
360.1	Dissolved Oxygen Using an ISE	USEPA
8157	Dissolved Oxygen in Water	HACH
8229	Dissolved Oxygen in Water	HACH
360.2	Dissolved Oxygen by Winkler Technique	USEPA
D888(B)	Dissolved Oxygen by Instrumental Probe	ASTM
5320-B	Dissolved Organic Halogen in Water	APHA
993.23	Dissolved Hexavalent Chromium in Water	AOAC

2810	Dissolved Gas Supersaturation	APHA
O1105	Dissolved Chlorophenoxy Acids in Water	USDOI/USGS
6251-B	Disinfection By-Products: Haloacetic Acids and Trichlorophenol	APHA
6252-B	Disinfection By-Products: Aldehydes	APHA
9216-B	Direct Total Microbial Count- Epifluorescence Method	APHA
992.17	Diquat and Paraquat Residues in Potatoes	AOAC
549	Diquat and Paraquat in Water by HPLC/UV	USEPA
549.1	Diquat and Paraquat in Water by HPLC	USEPA
PMD-DQT	Diquat (Dibromide) by HPLC	USEPA
620	Diphenylamine in Wastewater by GC	USEPA
PMD-DPF	Diphenylamine by GC	USEPA
2530	Diphenyl by GC/FID	NIOSH
PMD-DPA(IR)	Diphenamid by IR Spectroscopy	USEPA
PMD-DPA(GC)	Diphenamid by GC	USEPA
PMD-DOZ(UV)	Diphacinone in Baits by UV Spectroscopy	USEPA
PMD-DOZ(LC1)	Diphacinone by HPLC	USEPA
PMD-DOZ(LC2)	Diphacinone by HPLC	USEPA
PMD-DMF	Dioxins in 2,4-D and 2,4,5-T by GC/MS	USEPA
1613(W)	Dioxins and Furans - Water	USEPA
1613(S)	Dioxins and Furans - Solids	USEPA
TO-9	Dioxin in Air by HRGC/HRMS	USEPA
1602	Dioxane by GC/FID	NIOSH
PMD-DOG	Dinoseb by IR Spectroscopy	USEPA
PMD-DNZ(TITR)	Dinocap by TKN and Titration	USEPA
PMD-DNZ(IR)	Dinocap by IR Spectroscopy	USEPA
627	Dinitroaniline Pesticides in Wastewater	USEPA
646	Dinitro Aromatic Pesticides in Water	USEPA
PMD-DNR	Dinitramine by GC	USEPA
2524	Dimethyl Sulfate by GC/ECD	NIOSH
PMD-DNE	Dimethyl Phthalate by GC	USEPA
PMD-DME	Dimethoate by GC	USEPA
I-004-1	Digestion/Analysis of Waters by FLAA	USEPA
I-002-1	Digestion/Analysis of Soil by Flame AA	USEPA
1012	Diffuorodibromomethane by GC/FID	NIOSH
1663	Differentiation of Oil by GC/FID	USEPA
983.26	Differentiation of Bacillus cereus Group	AOAC
1651	Diesel Oil in Muds by GC/FID	USEPA
PMD-DJG	Dicrotophos by IR Spectroscopy	USEPA
PMD-ACG(LC1)	Dicofol by HPLC	USEPA
2516	Dichlorofluoromethane by GC/FID	NIOSH
1004	Dichloroethyl Ether by GC/FID	NIOSH
PMD-DJA	Dichloran in Dusts by IR Spectroscopy	USEPA
965.36	Dichlone Pesticide Residues	AOAC
PMD-DGV	Dichlone by IR Spectroscopy	USEPA
PMD-DIC	DICA by HPLC	USEPA
PMD-DGL	Dibutyl Succinate by Titration	USEPA
5017	Dibutyl Phosphate by GC/FPD	NIOSH
6006	Diborane by Plasma Emission Spectrometry	NIOSH
1RM-20	Dibenzofuran and Dibenzo-p-dioxin	ENV/CANADA
2515	Diazomethane by GC/FID	NIOSH
PMD-DFN	Diazinon by HPLC	USEPA
8195	Determination of Turbidity	HACH

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RP735	Determination of Total Fissile Content	USDOE/ASD
201(CSR)	Determination of PM10 Emissions	USEPA
201(EGR)	Determination of PM10 Emissions	USEPA
644	Determination of Picloram in Wastewater	USEPA
CTM-002	Determination of Particulate Matter	USEPA
202	Determination of Particulate Emission	USEPA
638	Determination of Oryzalin in Wastewater	USEPA
203	Determination of Opacity of Emissions	USEPA
353.4	Determination of Nitrite and Nitrate	USEPA
RP280	Determination of Lead-210 in Water	USDOE/ASD
1001	Determination of Lead, for use in Lead and Copper Rule compliance	HACH
CTM-004	Determination of HCl Emissions	USEPA
CTM-011	Determination of Halogenated Organics	USEPA
CTM-005	Determination of Condensable Emissions	USEPA
440(S)	Determination of Carbon and Nitrogen	USEPA
440(W)	Determination of Carbon and Nitrogen	USEPA
CTM-001	Determination of Butadiene Emissions	USEPA
10200-I	Determination of Biomass (Standing Crop)	APHA
643	Determination of Bentazon in Wastewater	USEPA
639	Determination of Bendiocarb in Water	USEPA
300_M	Determination of Anions by IC	USEPA
NITRO-13	Determination of Ammonium Nitrogen	USDOC/NOAA
F60	Detection of Microbiological Contaminant	ASTM
5041A	Desorption of Sorbent Cartridge by GC/MS	USEPA
D2186(A)	Deposit-Forming Impurities in Steam	ASTM
D2186(B)	Deposit-Forming Impurities in Steam	ASTM
D2186(C)	Deposit-Forming Impurities in Steam	ASTM
D2186(D)	Deposit-Forming Impurities in Steam	ASTM
B0430	Denitrifying and Nitrate-reducing Bacteria- MPN Method	USDOI/USGS
5514	Demeton by GC/FPD	NIOSH
9222-D	Delayed-Incubation Fecal Coliform in Presence, Membrane Filter	APHA
PMD-DEE(LC)	DEET by HPLC	USEPA
PMD-DEE(GC)	DEET by GC	USEPA
1659	Dazomet in Wastewater	USEPA
PMD-DAL	Dalapon by IR Spectroscopy	USEPA
PMD-CYZ(GC1)	Cyromazine in Trigard 75W by GC	USEPA
PMD-CYZ(GC3)	Cyromazine in Armor Premix by GC	USEPA
PMD-CYZ(GC2)	Cyromazine in Armor by GC	USEPA
5030	Cyanuric Acid by HPLC/UV	NIOSH
4500-CN(J)	Cyanogen Chloride in Water	APHA
D4165	Cyanogen Chloride in Water	ASTM
D2036(D)	Cyanides without Distillation	ASTM
D2036(B)	Cyanides in Water by Colorimetry	ASTM
D2036(C)	Cyanides in Water by Colorimetry	ASTM
D2036(A)	Cyanides in Water After Distillation	ASTM
D5049(B)	Cyanides in Waste - Prussian Blue	ASTM
D5049(D)	Cyanides in Waste - Gas Detector Tube	ASTM
D5049(C)	Cyanides in Waste - Cyantesmo Paper	ASTM
D5049(A)	Cyanides in Waste - Chloramine T	ASTM
4500-CN(H)	Cyanides Amenable to Chlorination without Distillation	APHA
4500-CN(G)	Cyanides Amenable to Chlorination after Distillation	APHA
335.1	Cyanides Amenable to Chlorination	USEPA

4500-CN(F)	Cyanide in Water Using ISE	APHA
4500-CN(D)	Cyanide in Water by Titration	APHA
9213	Cyanide in Water by ISE	USEPA
4500-CN(E)	Cyanide in Water by Colorimetry	APHA
I1300	Cyanide in Water by Colorimetry	USDOI/USGS
I2302	Cyanide in Water by Colorimetry	USDOI/USGS
I3300	Cyanide in Water by Colorimetry	USDOI/USGS
I4302	Cyanide in Water by Colorimetry	USDOI/USGS
D4374	Cyanide in Water by Automated Methods	ASTM
4500-CN(C)	Cyanide in Water after Distillation	APHA
8027	Cyanide in Water	HACH
335.63	Cyanide in Waste by Colorimetry	USEPA
SFSAS_8	Cyanide in Sediment	USEPA
SFSAS_9	Cyanide in Fish	USEPA
9013	Cyanide Extraction for Solids and Oils	USEPA
335.4	Cyanide by Semi-Automated Colorimetry	USEPA
MU012R	Cyanide by Microdistillation and Argentio	USDOE/ASD
7904	Cyanide by Ion Specific Electrode	NIOSH
335.2(MIDI)	Cyanide Analysis by MIDI Distillation	USEPA
629	Cyanazine in Wastewater by HPLC	USEPA
PMD-CUC	Cyanazine by IR Spectroscopy	USEPA
4500-CN(L)	Cyanates in Waste Using an ISE	APHA
PMD-CU-S	Cupric Ion by Ion Chromatography	USEPA
1622	Cryptosporidium in Water by Filtration/IMS/FA - April 2001 Update	USEPA
7603	Crystalline Silica in Coal Mine Dust	NIOSH
7500	Crystalline Silica by X-Ray Diffraction	NIOSH
7601	Crystalline Silica by VIS	NIOSH
7602	Crystalline Silica by Infra-Red Absorption	NIOSH
D934(A)	Crystalline Compounds in Water Deposits	ASTM
D934(B)	Crystalline Compounds in Water Deposits	ASTM
1623	Cryptosporidium and Giardia in Water by Filtration/IMS/FA - April 2001 Update	USEPA
PMD-CRO	Crotoxyphos by GC	USEPA
3516	Crotonaldehyde by Differential Pulse Polar.	NIOSH
TO-8	Cresols and Phenols in Air by HPLC	USEPA
2546	Cresol and Phenol by GC/FID	NIOSH
PMD-COR(IR)	Coumaphos by IR Spectroscopy	USEPA
PMD-COR(LC)	Coumaphos by HPLC	USEPA
PMD-COR(GC)	Coumaphos by GC	USEPA
PMD-COQ	Coumafuryl by UV Spectroscopy	USEPA
D2688(B)	Corrosivity of Water Using Pipe Inserts	ASTM
D2688(A)	Corrosivity of Water Using Metal Coupons	ASTM
D2776	Corrosivity	ASTM
3500-CU(D)	Copper in Water by Spectrophotometry- Neocuproine Method	APHA
3500-CU(E)	Copper in Water by Spectrophotometry- Bathocuproine Method	APHA
3500-CU(C)	Copper in Water by ICP	APHA
D1688(C)	Copper in Water By GFAA	ASTM
I1272	Copper in Water by GFAA	USDOI/USGS
3500-CU(B)	Copper in Water by FLAA or GFAA	APHA
D1688(A)	Copper in Water By FLAA	ASTM
I1270	Copper in Water by FLAA	USDOI/USGS
I3270	Copper in Water by FLAA	USDOI/USGS
I7270	Copper in Water by FLAA	USDOI/USGS

D1688(B)	Copper in Water By Chelation and FLAA	ASTM
I1271	Copper in Water by Chelation and FLAA	USDOI/USGS
I3271	Copper in Water by Chelation and FLAA	USDOI/USGS
I7271	Copper in Water by Chelation and FLAA	USDOI/USGS
8506	Copper in Water	HACH
I5270	Copper in Bottom Material by FLAA	USDOI/USGS
220.2	Copper by GFAA	USEPA
7211	Copper by GFAA	USEPA
220.2_M	Copper by GFAA	USEPA
7029	Copper by Flame Atomic Absorption	NIOSH
220.1	Copper by FLAA	USEPA
7210	Copper by FLAA	USEPA
220.1_M	Copper by FLAA	USEPA
C-018-1	Controlled Pumping Test in Wells	USEPA
992.3	Confirmed Total Coliform/E. coli in Food	AOAC
M-02-CON	Conductivity Measurements	USDOE/EML
8160	Conductivity in Water by Direct Measurement	HACH
2510	Conductivity in Water	APHA
120.1_M	Conductivity in Industrial Waste	USEPA
D1125(A)	Conductivity and Resistivity in Water	ASTM
D1125(B)	Conductivity and Resistivity in Water	ASTM
120.1	Conductance	USEPA
D698	Compaction Characteristics of Soil	ASTM
MS310(W)	Colorimetric Test for NO3+ in Water	USDOE/ASD
MS310(S)	Colorimetric Test for NO3+ in Soil	USDOE/ASD
MS410(W)	Colorimetric Test for Nickel in Water	USDOE/ASD
MS210	Colorimetric Test for Lead in Water	USDOE/ASD
MS110	Colorimetric Test for CrO4+	USDOE/ASD
8515	Colorimetric Method for TNT in Soil	USEPA
8025	Color, APHA Platinum-Cobalt	HACH
2120-D	Color in Water Using Tristimulus Filters	APHA
2120-E	Color in Water Using the ADMI Method	APHA
2120-B	Color in Water by Visual Comparison	APHA
I1250	Color in Water by Visual Comparison	USDOI/USGS
2120-B(M)	Color in Water by Spectrophotometry(Modified)	21FLORAN
2120-C	Color in Water by Spectrophotometry	APHA
110.3	Color by Spectrophotometric Analysis	USEPA
110.1	Color by Calculating ADMI Values	USEPA
110.2	Color Analysis Using Platinum/Cobalt	USEPA
D4201	Coliphages in Water by Counting	ASTM
COLILERT-18	Colilert-18 Quanti-Tray; MPN - Multi Tube, Multi Well for E.coli	IDEXX
COLILERT-182000	Colilert-18 Quanti-Tray/2000; MPN - Multi Tube, Multi Well for E	IDEXX
COLILERT	Colilert Quanti-Tray; MPN - Multi Tube, Multi Well for E.coli	IDEXX
COLILERT/2000	Colilert Quanti-Tray/2000; MPN - Multi Tube, Multi Well for E.col	IDEXX
3.5	Coliforms- Plate Count	APHA
3.4	Coliforms- Membrane Filter	APHA
3.2-D	Coliforms in Shellfish	APHA
3.2-B	Coliforms in Seawater and Shellfish	APHA
3.2-C	Coliforms in Seawater and Shellfish	APHA
989.11	Coliforms in Dairy Products	AOAC
3.3-C	Coliforms - IMViC	APHA
3.3-B	Coliforms - Cytochrome Oxidase	APHA

8368	Coliform Bacteria, Fecal MPN	HACH
991.14	Coliform and E. coli Counts in Foods	AOAC
D1252(B)	COD by Spectrophotometry	ASTM
C-002-1	COD by Open Reflux	USEPA
3500-CO(C)	Cobalt in Water by ICP	APHA
D3558(C)	Cobalt in Water by GFAA	ASTM
I1241	Cobalt in Water by GFAA	USDOJ/USGS
3500-CO(B)	Cobalt in Water by FLAA or GFAA	APHA
D3558(A)	Cobalt in Water by FLAA	ASTM
I1239	Cobalt in Water by FLAA	USDOJ/USGS
I3239	Cobalt in Water by FLAA	USDOJ/USGS
I7239	Cobalt in Water by FLAA	USDOJ/USGS
D3558(B)	Cobalt in Water by Chelation and FLAA	ASTM
I1240	Cobalt in Water by Chelation and FLAA	USDOJ/USGS
I3240	Cobalt in Water by Chelation and FLAA	USDOJ/USGS
I7240	Cobalt in Water by Chelation and FLAA	USDOJ/USGS
I5239	Cobalt in Bottom Material by FLAA	USDOJ/USGS
219.2	Cobalt by GFAA	USEPA
7201	Cobalt by GFAA	USEPA
219.2_M	Cobalt by GFAA	USEPA
7027	Cobalt by Flame Atomic Absorption	NIOSH
219.1	Cobalt by FLAA	USEPA
7200	Cobalt by FLAA	USEPA
219.1_M	Cobalt by FLAA	USEPA
D2035	Coagulation-Flocculation Test of Water	ASTM
I5300	CN in Bottom Material by Colorimetry	USDOJ/USGS
I6302	CN in Bottom Material by Colorimetry	USDOJ/USGS
P-009-1	CLP Pesticide/PCB in Water/Soil by GC/EC	USEPA
974.38	Clostridium perfringens in Foods	AOAC
976.3	Clostridium perfringens in Foods	AOAC
993.1	Clostridium perfringens from Shellfish	AOAC
977.26	Clostridium botulinum and Toxins in Food	AOAC
300.6	Cl, PO4, NO3 and SO4 - IONCHR	IL/SWSD
PMD-CMN	Cinmethalin by GC	USEPA
CR-01	Chromium-51 in Water Samples	USEPA
D1687(A)	Chromium VI in Water	ASTM
3500-CR(E)	Chromium in Water by Ion Chromatography	APHA
D5257	Chromium in Water by Ion Chromatography	ASTM
3500-CR(C)	Chromium in Water by ICP	APHA
D1687(C)	Chromium in Water By GFAA	ASTM
I1235	Chromium in Water by GFAA	USDOJ/USGS
3500-CR(B)	Chromium in Water by FLAA or GFAA	APHA
D1687(B)	Chromium in Water By FLAA	ASTM
I1236	Chromium in Water by FLAA	USDOJ/USGS
I3236	Chromium in Water by FLAA	USDOJ/USGS
I7236	Chromium in Water by FLAA	USDOJ/USGS
I1238	Chromium in Water by Chelation and FLAA	USDOJ/USGS
I3238	Chromium in Water by Chelation and FLAA	USDOJ/USGS
I7238	Chromium in Water by Chelation and FLAA	USDOJ/USGS
I5236	Chromium in Bottom Material by FLAA	USDOJ/USGS
306	Chromium Emissions from Electroplating	USEPA
306A	Chromium Emissions from Electroplating	USEPA

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CTM-006	Chromium Emissions from Electroplaters	USEPA
218.2	Chromium by GFAA	USEPA
7191	Chromium by GFAA	USEPA
218.2_M	Chromium by GFAA	USEPA
7024	Chromium by Flame Atomic Absorption	NIOSH
218.1	Chromium by FLAA	USEPA
7190	Chromium by FLAA	USEPA
218.1_M	Chromium by FLAA	USEPA
218.3	Chromium by Chelation Extraction FLAA	USEPA
HERL_013	Cholinesterase Activity in Blood	USEPA
PMD-CLV	Chlorsulfuron by HPLC	USEPA
PMD-CLD(UV)	Chlorpyrifos by UV Spectroscopy	USEPA
PMD-CLD(IR)	Chlorpyrifos by IR Spectroscopy	USEPA
PMD-CLD(GC)	Chlorpyrifos by GC	USEPA
PMD-CKR(IR)	Chloroxuron in Dust by IR Spectroscopy	USEPA
PMD-CKR(GC)	Chloroxuron by GC	USEPA
977.06	Chlorotoluron, Chloroxuron, or Metoxuron	AOAC
PMD-CKL(IR)	Chlorothalonil by IR Spectroscopy	USEPA
PMD-CKL(GC)	Chlorothalonil by GC	USEPA
PMD-CKA	Chloropicrin and 1,3-DCPs by GC	USEPA
B6501	Chlorophyll a-b-c in Phytoplankton by Spectroscopy	USDOI/USGS
B6601	Chlorophyll a-b-c in Periphyton by Spectroscopy	USDOI/USGS
10200-H	Chlorophyll a-b-c Determination	APHA
B6530	Chlorophyll a-b in Phytoplankton by HP Liquid Chromatography	USDOI/USGS
B6520	Chlorophyll a-b in Phytoplankton by Chromatography/Spectroscopy	USDOI/USGS
B6540	Chlorophyll a-b in Phytoplankton by Chromatography/Fluorometry	USDOI/USGS
B6630	Chlorophyll a-b in Periphyton by HP Liquid Chromatography	USDOI/USGS
B6620	Chlorophyll a-b in Periphyton by Chromatography/Spectroscopy	USDOI/USGS
B6640	Chlorophyll a-b in Periphyton by Chromatography/Fluorometry	USDOI/USGS
PMD-CPH	Chlorophenoxy Herbicide Technical Data	USEPA
O7105	Chlorophenoxy Acids in Sediment	USDOI/USGS
O5105	Chlorophenoxy Acids in Bottom Material	USDOI/USGS
221.1	Chlorophenoxy Acid and Pentachlorophenol	USFDA
PMD-CJO(UV1)	Chlorophacinone by UV Spectroscopy	USEPA
PMD-CJO(UV2)	Chlorophacinone by UV Spectroscopy	USEPA
PMD-CJO(LC)	Chlorophacinone by HPLC	USEPA
PMD-CJL	Chloroneb by UV Spectroscopy	USEPA
PMD-CIB	Chlorobenzilate by GC	USEPA
2008	Chloroacetic Acid by Ion Chromatography	NIOSH
2015	Chloroacetaldehyde by GC/ECD	NIOSH
D1291	Chlorine Requirement or Demand of Water	ASTM
4500-CLO(B)	Chlorine Dioxide in Water by Titration- Iodometric Method	APHA
4500-CLO(E)	Chlorine Dioxide in Water by Titration- Amperometric Method II	APHA
4500-CLO(C)	Chlorine Dioxide in Water by Titration- Amperometric Method I	APHA
4500-CLO(D)	Chlorine Dioxide in Water by Colorimetry- DPD Method	APHA
2350-C	Chlorine Dioxide Demand/Requirement of Water	APHA
2350-B	Chlorine Demand/Requirement of Water	APHA
330.5	Chlorine by Spectrophotometry with DPD	USEPA
6011	Chlorine and Bromine by IC	NIOSH
OS030	Chlorinated VOCs in Water and Air	USDOE/ASD
5014	Chlorinated Terphenyl by GC/ECD	NIOSH
551	Chlorinated Solvents in Water by GC	USEPA

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D3478	Chlorinated Phenoxy-Acid Herbicides	ASTM
6640-B	Chlorinated Phenoxy Herbicides in Water	APHA
CP-85.01	Chlorinated Phenolics in Water	NCASI
CP-86.01	Chlorinated Phenolics in Water	NCASI
1653	Chlorinated Phenolics by GC/MS	USEPA
508	Chlorinated Pesticides in Water by GC	USEPA
P-003-1	Chlorinated Pesticides in Water	USEPA
P-011-1	Chlorinated Pesticides in Soil by GC/ECD	USEPA
P-001-1	Chlorinated Pesticides in Soil	USEPA
SFSAS_3	Chlorinated Pesticides in Sediments	USEPA
SFSAS_4	Chlorinated Pesticides in Fish	USEPA
508.1	Chlorinated Pest., Herb. and Organohalide	USEPA
D5317	Chlorinated Organic Acid Compounds by GC	ASTM
612	Chlorinated Hydrocarbons by GC	USEPA
8121	Chlorinated Hydrocarbons by GC	USEPA
8120A	Chlorinated Hydrocarbons by GC	USEPA
8151(W)	Chlorinated Herbicides in Water by GC	USEPA
615	Chlorinated Herbicides in Wastewater	USEPA
8151(S)	Chlorinated Herbicides in Soils by GC	USEPA
X_89_176(N)	Chlorinated Herbicides by LC/MS	USEPA
X_89_176(P)	Chlorinated Herbicides by LC/MS	USEPA
8150B	Chlorinated Herbicides by GC	USEPA
5025	Chlorinated Diphenyl Oxide by GC/ECD	NIOSH
5039	Chlorinated Camphene by GC/ECD	NIOSH
555	Chlorinated Acids in Water by HPLC	USEPA
515.2	Chlorinated Acids in Water by GC	USEPA
515.1	Chlorinated Acids in Water by CGC/ECD	USEPA
992.32	Chlorinated Acidic Residues in Water	AOAC
D5085	Chloride, Nitrate and Sulfate	ASTM
D4458	Chloride Ions in Saline Waters	ASTM
325.6	Chloride in Wet Deposition	IL/SWSD
4500-CL-(C)	Chloride in Water by Titration- Mercuric Nitrate Method	APHA
4500-CL-(B)	Chloride in Water by Titration- Argentometric Method	APHA
325_M(B)	Chloride in Water by Titration	USEPA
I1183	Chloride in Water by Titration	USDOI/USGS
I1184	Chloride in Water by Titration	USDOI/USGS
D512(B)	Chloride in Water by Silver Nitrate Titration	ASTM
4500-CL-(D)	Chloride in Water by Potentiometry	APHA
D512(A)	Chloride in Water by Mercurimetric Titration	ASTM
D512(C)	Chloride in Water by ISE-Cl	ASTM
9212	Chloride in Water by ISE	USEPA
4500-CL-(F)	Chloride in Water by Ion Chromatography	APHA
4500-CL-(E)	Chloride in Water by Colorimetry- Automated Ferricyanide Metho	APHA
325_M(A)	Chloride in Water by Colorimetry	USEPA
I1187	Chloride in Water by Colorimetry	USDOI/USGS
I2188	Chloride in Water by Colorimetry	USDOI/USGS
I2187	Chloride in Water by Automated Colorimetry	USDOI/USGS
9253	Chloride in Water and Waste by Titration	USEPA
9252A	Chloride in Water and Waste by Titration	USEPA
973.51	Chloride in Water	AOAC
8225	Chloride by Titration	HACH
325.3	Chloride by Mercuric Nitrate Titration	USEPA

325.2	Chloride by Colorimetric Analysis II	USEPA
325.1	Chloride by Colorimetric Analysis I	USEPA
8224	Chloride by Buret Titration	HACH
9250	Chloride by Automated Colorimetry	USEPA
9251	Chloride by Automated Colorimetry	USEPA
PMD-CHP	Chlorfluorecol-Methyl Ester by UV Spec.	USEPA
5510	Chlordane by GC/ECD	NIOSH
D4947	Chlordane and Heptachlor Residues	ASTM
PMD-CGV	Chlorbromuron by GC	USEPA
973.46(E)	Chemical Oxygen Demand of Water	AOAC
973.46(F)	Chemical Oxygen Demand of Water	AOAC
973.46(G)	Chemical Oxygen Demand of Water	AOAC
8116	Chemical Oxygen Demand in Water	HACH
8230	Chemical Oxygen Demand in Water	HACH
410.3	Chemical Oxygen Demand in Saline Waters	USEPA
5220-B	Chemical Oxygen Demand by Titration- Open Reflux Method	APHA
5220-C	Chemical Oxygen Demand by Titration- Closed Reflux Method	APHA
410_M(B)	Chemical Oxygen Demand by Titration	USEPA
D1252(A)	Chemical Oxygen Demand by Titration	ASTM
I3562(S)	Chemical Oxygen Demand by Titration	USDOI/USGS
I3562(W)	Chemical Oxygen Demand by Titration	USDOI/USGS
5220-D	Chemical Oxygen Demand by Colorimetry- Closed Reflux	APHA
410.4	Chemical Oxygen Demand by Colorimetry	USEPA
410_M(A)	Chemical Oxygen Demand by Colorimetry	USEPA
I3561	Chemical Oxygen Demand by Colorimetry	USDOI/USGS
8000	Chemical Oxygen Demand	HACH
8000(A1)	Chemical Oxygen Demand	HACH
8000(A2)	Chemical Oxygen Demand	HACH
OM510R	Chelators in Mixed Hazardous Waste by GC/MS	USDOE/ASD
D3686	Charcoal Tube Adsorption of Organic Vapors	ASTM
R1110	Cesium-137 and 134, Dissolved	USDOI/USGS
3500-CS	Cesium in Water by FLAA	APHA
974.27	Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ag, Zn in Water	AOAC
9080	Cation-Exchange Capacity of Soils	USEPA
9081	Cation-Exchange Capacity of Soils	USEPA
PMD-CBX(UV)	Carboxin by UV Spectroscopy	USEPA
PMD-CBX(IR)	Carboxin by IR Spectroscopy	USEPA
554	Carbonyl Compounds in Water by HPLC	USEPA
8315	Carbonyl Compounds by HPLC	USEPA
8315A(LLE)	Carbonyl Compounds by HPLC	USEPA
8315A(LSE)	Carbonyl Compounds by HPLC	USEPA
920.194	Carbonate and Bicarbonate in Water	AOAC
C-01	Carbon-14 in Aqueous Samples	USEPA
2.6	Carbon Monoxide in the Atmosphere	USEPA
50APP-C	Carbon Monoxide in Atmosphere - NDIR	USEPA
D3162	Carbon Monoxide in Atmosphere - NDIR	ASTM
D3416	Carbon Monoxide in Atmosphere - GC/FID	ASTM
IP-3A	Carbon Monoxide in Air - NDIR	USEPA
IP-3B	Carbon Monoxide in Air - GFC	USEPA
IP-3C	Carbon Monoxide in Air - ECO	USEPA
10	Carbon Monoxide Emissions in Air	USEPA
10A	Carbon Monoxide Emissions in Air	USEPA

10B	Carbon Monoxide Emissions in Air	USEPA
1600	Carbon Disulfide by GC/FPD	NIOSH
4500-CO2(C)	Carbon Dioxide in Water by Titration	APHA
4500-CO2(B)	Carbon Dioxide in Water by Nomography	APHA
6603	Carbon Dioxide by GC/TCD	NIOSH
D5173	Carbon Compounds in Water	ASTM
5000	Carbon Black by Gravimetric Technique	NIOSH
PMD-CBF	Carbofuran by IR Spectroscopy	USEPA
968.26	Carbaryl Pesticide Residue - Qualitative	AOAC
964.18	Carbaryl Pesticide Residue - Colorimetric	AOAC
5006	Carbaryl by Visible Absorption Spec.	NIOSH
PMD-CAV(UV)	Carbaryl by UV Spectroscopy	USEPA
PMD-CAV(LC)	Carbaryl by HPLC	USEPA
6610-B	Carbamate Pesticides in Water by HPLC	APHA
D5315	Carbamate Pesticides in Water by HPLC	ASTM
O3107	Carbamate Pesticides in Water	USDOI/USGS
632	Carbamate Pesticides by HPLC/UV	USEPA
632.1	Carbamate Pesticides by HPLC/UV	USEPA
621	Carbamate Pesticides - TLC	USEPA
PMD-CAP(GC2)	Captan, Carbaryl and Naled by GC	USEPA
957.14	Captan Pesticide Residues	AOAC
PMD-CAP(IR)	Captan by IR Spectroscopy	USEPA
PMD-CAP(LC)	Captan by HPLC	USEPA
PMD-CAP(GC1)	Captan by GC	USEPA
PMD-CAO	Captafol by IR Spectroscopy	USEPA
3500-CA(D)	Calcium in Water by Titration Using EDTA	APHA
3500-CA(C)	Calcium in Water by ICP	APHA
3500-CA(B)	Calcium in Water by FLAA	APHA
I1152	Calcium in Water by FLAA	USDOI/USGS
I3152	Calcium in Water by FLAA	USDOI/USGS
I3153	Calcium in Water by FLAA	USDOI/USGS
I7152	Calcium in Water by FLAA	USDOI/USGS
920.199	Calcium in Water	AOAC
I5152	Calcium in Bottom Material by FLAA	USDOI/USGS
8222	Calcium Hardness in Water	HACH
215.1	Calcium by FLAA	USEPA
7140	Calcium by FLAA	USEPA
215.1_M	Calcium by FLAA	USEPA
215.2	Calcium by EDTA Titrimetric Analysis	USEPA
7020	Calcium by Atomic Absorption	NIOSH
D511(A)	Calcium and Magnesium in Water by Titration	ASTM
D511(B)	Calcium and Magnesium in Water by FLAA	ASTM
CA-02	Calcium - Titration	USDOE/EML
CA-01	Calcium - AA Spectrometry	USDOE/EML
3500-CD(D)	Cadmium in Water by Spectrophotometry	APHA
D3557(C)	Cadmium in Water by Polarography	ASTM
3500-CD(C)	Cadmium in Water by ICP	APHA
D3557(D)	Cadmium in Water by GFAA	ASTM
I1137	Cadmium in Water by GFAA	USDOI/USGS
3500-CD(B)	Cadmium in Water by FLAA/GFAA	APHA
D3557(A)	Cadmium in Water by FLAA	ASTM
I1135	Cadmium in Water by FLAA	USDOI/USGS

I3135	Cadmium in Water by FLAA	USDOJ/USGS
I7135	Cadmium in Water by FLAA	USDOJ/USGS
D3557(B)	Cadmium in Water by Chelation and FLAA	ASTM
I1136	Cadmium in Water by Chelation and FLAA	USDOJ/USGS
I3136	Cadmium in Water by Chelation and FLAA	USDOJ/USGS
I7136	Cadmium in Water by Chelation and FLAA	USDOJ/USGS
I5135	Cadmium in Bottom Material by FLAA	USDOJ/USGS
213.2	Cadmium by GFAA	USEPA
213.2_M	Cadmium by GFAA	USEPA
7131A	Cadmium by GFAA	USEPA
213.1	Cadmium by FLAA	USEPA
7130	Cadmium by FLAA	USEPA
213.1_M	Cadmium by FLAA	USEPA
7048	Cadmium by Atomic Absorption	NIOSH
PMD-CD	Cadmium by AAS	USEPA
M-01	Cadmium and Lead by GFAA	USDOE/EML
200.6	Ca, Mg, K and Na in Wet Deposition	IL/SWSD
D5086	Ca, Mg, K and Na in Atmospheric Wet Dep.	ASTM
D2820	C1 - C5 Hydrocarbons by GC	ASTM
616	C, H, O Containing Pesticides in Water	USEPA
PMD-BYA(LC1)	Butylate by HPLC	USEPA
PMD-BYA(LC2)	Butylate by HPLC	USEPA
PMD-BYA(GC1)	Butylate by GC	USEPA
PMD-BYA(GC2)	Butylate by GC	USEPA
1661	Bromoxynil in Wastewater by HPLC/UV	USEPA
5010	Bromoxynil and Bromoxynil Octanoate	NIOSH
D1246	Bromide Ion in Water	ASTM
I1125	Bromide in Water by Titration	USDOJ/USGS
4500-BR(B)	Bromide in Water by Spectrophotometry	APHA
9211	Bromide in Water by ISE	USEPA
4500-BR(C)	Bromide in Water by Ion Chromatography	APHA
I2128	Bromide in Water by Ion Chromatography	USDOJ/USGS
I2129	Bromide in Water by Colorimetry	USDOJ/USGS
D3869(D)	Bromide in Saline Water by Colorimetry	ASTM
320.1	Bromide by Titration with Iodine	USEPA
920.204	Bromide and Iodide in Water	AOAC
PMD-BRA	Bromadiolone by HPLC	USEPA
PMD-BRO	Bromacil by GC	USEPA
D3082	Boron in Water Using Spectrometry	ASTM
4500-B-B	Boron in Water by Spectrophotometry- Curcumin Method	APHA
4500-B-C	Boron in Water by Spectrophotometry- Carmine Method	APHA
4500-B-D	Boron in Water by ICP	APHA
I1114	Boron in Water by DC Plasma Spectrometry	USDOJ/USGS
I1110	Boron in Water by Colorimetry	USDOJ/USGS
I1112	Boron in Water by Colorimetry	USDOJ/USGS
I3110	Boron in Water by Colorimetry	USDOJ/USGS
I3112	Boron in Water by Colorimetry	USDOJ/USGS
I7110	Boron in Water by Colorimetry	USDOJ/USGS
I7112	Boron in Water by Colorimetry	USDOJ/USGS
I2115	Boron in Water by Automated Colorimetry	USDOJ/USGS
I5110	Boron in Bottom Material by Colorimetry	USDOJ/USGS
PMD-BOR	Boron Compounds by Ignition and Titration	USEPA

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7506	Boron Carbide	NIOSH
212.3	Boron by Colorimetric Analysis	USEPA
PMD-BIL	Bitertanol by GC	USEPA
3500-BI	Bismuth in Water by FLAA	APHA
PMD-TQO	bis(Tri-n-butyltin) Oxide by GC	USEPA
HERL_007	Bis(p-Chlorophenyl) Acetic Acid in Urine	USEPA
8430	Bis(2-Chloroethyl)Ether Products by GC/FTIR	USEPA
968.25	Biphenyl Pesticide Residues in Citrus	AOAC
642	Biphenyl and Ortho Phenylphenol in Water	USEPA
B6660	Biomass/Chlorophyll Ratio in Periphyton	USDOI/USGS
B6560	Biomass/Chlorophyll Ratio for Phytoplankton	USDOI/USGS
8043	Biological Oxygen Demand in Water	HACH
304A	Biodegradation Rates (Vent Option)	USEPA
304B	Biodegradation Rates (Scrubber Option)	USEPA
973.44	Biochemical Oxygen Demand of Water	AOAC
PMD-BIN	Binapacryl by IR Spectroscopy	USEPA
1002	beta-Chloroprene by GC/FID	NIOSH
D1890	Beta Particle Radioactivity of Water	ASTM
1	Beta Activity in Airborne Particulates	USEPA
103	Beryllium Screening in Air	USEPA
3500-BE(D)	Beryllium in Water by Spectrophotometry	APHA
3500-BE(C)	Beryllium in Water by ICP	APHA
D3645(B)	Beryllium in Water by GFAA	ASTM
3500-BE(B)	Beryllium in Water by FLAA or GFAA	APHA
D3645(A)	Beryllium in Water by FLAA	ASTM
I1095	Beryllium in Water by FLAA	USDOI/USGS
I3095	Beryllium in Water by FLAA	USDOI/USGS
I7095	Beryllium in Water by FLAA	USDOI/USGS
I5095	Beryllium in Bottom Material by FLAA	USDOI/USGS
104	Beryllium in Air	USEPA
210.2	Beryllium by GFAA	USEPA
7091	Beryllium by GFAA	USEPA
210.2_M	Beryllium by GFAA	USEPA
210.1	Beryllium by FLAA	USEPA
7090	Beryllium by FLAA	USEPA
210.1_M	Beryllium by FLAA	USEPA
7102	Beryllium and compounds	NIOSH
5009	Benzoyl Peroxide by HPLC/UV	NIOSH
TO-13	Benzo(a)Pyrene and PAHs - Ambient Air	USEPA
605	Benzidines in Wastewater by HPLC	USEPA
553(LLE)	Benzidines and Pesticides in Water	USEPA
553(LSE)	Benzidines and Pesticides in Water	USEPA
8306	Benzidine in Urine by GC/ECD	NIOSH
3700	Benzene by portable GC	NIOSH
10500-C	Benthic Macroinvertebrate Sample Processing and Analysis	APHA
B5020	Benthic Invertebrates- Numerical Assessment	USDOI/USGS
B5001	Benthic Invertebrates- Faunal Survey (qualitative method)	USDOI/USGS
B5040	Benthic Invertebrates- Distribution and Abundance (quantitative)	USDOI/USGS
B5050	Benthic Invertebrate Drift Determination	USDOI/USGS
PMD-BEN(UV)	Bentazon by UV Spectroscopy	USEPA
PMD-BEN(LC)	Bentazon by HPLC	USEPA
636	Bensulide in Wastewater by HPLC/UV	USEPA

PMD-BEL(IR)	Bensulide by IR Spectroscopy	USEPA
PMD-BEL(LC)	Bensulide by HPLC	USEPA
PMD-BEH(UV)	Benomyl by UV Spectroscopy	USEPA
PMD-BEH(IR)	Benomyl by IR Spectroscopy	USEPA
631	Benomyl and Carbendazim in Wastewater	USEPA
PMD-BEE(IR)	Benefin by IR Spectroscopy	USEPA
PMD-BEE(GC)	Benefin by GC	USEPA
PMD-BEB(UV)	Bendiocarb by UV Spectroscopy	USEPA
PMD-BEB(IR)	Bendiocarb by IR Spectroscopy	USEPA
PMD-BEB(LC)	Bendiocarb by HPLC	USEPA
PMD-BDX	Benalaxyl by GC	USEPA
O3118	Base/Neutral Extractable Compounds	USDOI/USGS
625	Base/Neutral and Acid Organics in Wastewater	USEPA
7056	Barium, soluble compounds	NIOSH
3500-BA(C)	Barium in Water by ICP	APHA
D4382	Barium in Water by GFAA	ASTM
3500-BA(B)	Barium in Water by FLAA or GFAA	APHA
D3651	Barium in Water by FLAA	ASTM
I1084	Barium in Water by FLAA	USDOI/USGS
I3084	Barium in Water by FLAA	USDOI/USGS
I7084	Barium in Water by FLAA	USDOI/USGS
D3986	Barium in Water by DCAPS	ASTM
920.201	Barium in Water	AOAC
I5084	Barium in Bottom Material by FLAA	USDOI/USGS
208.2	Barium by GFAA	USEPA
7081	Barium by GFAA	USEPA
208.2_M	Barium by GFAA	USEPA
208.1	Barium by FLAA	USEPA
208.1_M	Barium by FLAA	USEPA
7080A	Barium by FLAA	USEPA
993.11	Bacterial Counts in Raw/Pasteurized Milk	AOAC
F488	Bacterial Count in Water	ASTM
989.1	Bacterial and Coliforms in Dairy Products	AOAC
986.33	Bacterial and Coliform Counts in Milk	AOAC
980.31	Bacillus cereus in Foods	AOAC
IP-7-A	B(a)P in Air by GC/FID and GC/MS	USEPA
IP-7-B	B(a)P and PAHs in Air by HPLC	USEPA
PMD-AZN	Azinphos-Methyl by IR Spectroscopy	USEPA
5019	Azelaic Acid by GC/FID	NIOSH
PMD-ATR(IR)	Atrazine by IR Spectroscopy	USEPA
PMD-ATR(LC)	Atrazine by HPLC	USEPA
PMD-ATR(GC1)	Atrazine by GC	USEPA
PMD-ATR	Atrazine and Metolachlor by GC/FID	USEPA
PMD-ATR(GC2)	Atrazine and Metolachlor by GC	USEPA
PMD-FLM	Atrazine and Metolachlor by GC	USEPA
D4012	ATP Content of Microorganisms in Water	ASTM
7000A(GFAA)	Atomic Absorption - GFAA	USEPA
7000A(FLAA)	Atomic Absorption - FLAA	USEPA
PMD-ASU	Asulam by UV Spectroscopy	USEPA
9510-G	Assay and Identification of Viruses in Sample Concentrates	APHA
5031	Aspartamine by HPLC/UV	NIOSH
9000	Asbestos, Chrysotile by XRD	NIOSH

2570-B	Asbestos in Water by TEM	APHA
D4240	Asbestos in Atmosphere	ASTM
7402	Asbestos by TEM	NIOSH
7400	Asbestos by PCM	NIOSH
9002	Asbestos by KLP	NIOSH
6001	Arsine	NIOSH
5022	Arsenic, organo-	NIOSH
7901	Arsenic Trioxide	NIOSH
D2972(A)	Arsenic in Water Using Spectrophotometry	ASTM
D2972(B)	Arsenic in Water Using HYDAA	ASTM
3500-AS(C)	Arsenic in Water by Spectrophotometry	APHA
3500-AS(D)	Arsenic in Water by ICP	APHA
I1062	Arsenic in Water by HYDAA	USDOI/USGS
I2062	Arsenic in Water by HYDAA	USDOI/USGS
I3062	Arsenic in Water by HYDAA	USDOI/USGS
I4062	Arsenic in Water by HYDAA	USDOI/USGS
I7062	Arsenic in Water by HYDAA	USDOI/USGS
3500-AS(B)	Arsenic in Water by GFAA or HYDAA	APHA
D2972(C)	Arsenic in Water by GFAA	ASTM
I1060	Arsenic in Water by Colorimetry	USDOI/USGS
I3060	Arsenic in Water by Colorimetry	USDOI/USGS
I7060	Arsenic in Water by Colorimetry	USDOI/USGS
920.205	Arsenic in Water	AOAC
8013	Arsenic in Water	HACH
PMD-AS(TIT5)	Arsenic in Organic Compounds by Titration	USEPA
I5062	Arsenic in Bottom Material by HYDAA	USDOI/USGS
I6062	Arsenic in Bottom Material by HYDAA	USDOI/USGS
I5060	Arsenic in Bottom Material by Colorimetry	USDOI/USGS
206.5	Arsenic Digestion for HYDAA	USEPA
206.4	Arsenic by Spectrophotometric Analysis	USEPA
206.3	Arsenic by HYDAA	USEPA
206.2	Arsenic by GFAA	USEPA
206.2_M	Arsenic by GFAA	USEPA
7060A	Arsenic by GFAA	USEPA
7061A	Arsenic by Gaseous Hydride AA	USEPA
7063	Arsenic by ASV	USEPA
SFSAS_15	Arsenic and Selenium in Sediment	USEPA
7900	Arsenic	NIOSH
PMD-AS(ATE)	Arsenate by Titration	USEPA
8020A	Aromatic Volatile Organics by GC	USEPA
1501	Aromatic Hydrocarbons by GC/FID	NIOSH
B6020	Aquatic Vertebrates- Life History (quantitative method)	USDOI/USGS
5510-B	Aquatic Humic Substances in Water	APHA
5510-C	Aquatic Humic Substances in Water	APHA
D4455	Aquatic Bacteria by Epifluorescence	ASTM
PMD-ANY	ANTU by UV Spectroscopy	USEPA
PMD-ANT	Antimycin A by UV Spectroscopy	USEPA
I1055	Antimony in Water by Hydride AA	USDOI/USGS
I3055	Antimony in Water by Hydride AA	USDOI/USGS
I7055	Antimony in Water by Hydride AA	USDOI/USGS
3500-SB(B)	Antimony in Water by FLAA or GFAA	APHA
D3697	Antimony in Water by FLAA	ASTM

3500-SB(C)	Antimony in Water - ICP	APHA
I5055	Antimony in Bottom Material by HYDAA	USDOI/USGS
204.2	Antimony by GFAA	USEPA
7041	Antimony by GFAA	USEPA
204.2_M	Antimony by GFAA	USEPA
204.1	Antimony by FLAA	USEPA
7040	Antimony by FLAA	USEPA
204.1_M	Antimony by FLAA	USEPA
7062	Antimony and Arsenic by GBAA	USEPA
2514	Anisidine	NIOSH
4110-B	Anions in Water by Ion Chromatography	APHA
D4327	Anions in Water by Ion Chromatography	ASTM
I2057	Anions in Water by Ion Chromatography	USDOI/USGS
I2058	Anions in Water by Ion Chromatography	USDOI/USGS
C-003-1	Anions by Ion Chromatography	USEPA
ANION-01	Anions - Ion Chromatography	USDOE/EML
5540-C	Anionic Surfactants in Water as MBAS	APHA
9056	Anion Chromatography Method	USEPA
8131	Aniline by GC: Capillary Column	USEPA
PMD-ANF(IR)	Anilazine by IR Spectroscopy	USEPA
PMD-ANF(GC)	Anilazine by GC	USEPA
HERL_022	Analysis of Water for Pesticides	USEPA
HERL_023	Analysis of Water for Herbicides	USEPA
5040A	Analysis of VOST Sorbent Cartridges	USEPA
5041	Analysis of Sorbent Cartridges	USEPA
PAH-012	Analysis of PAHs in Soil by HPLC	USEPA
PAH-011	Analysis of PAHs in Soil by GC/FID	USEPA
PAH-009	Analysis of PAHs by GC/FID and GC/PID	USEPA
0011A	Analysis of Aldehydes/Ketones by HPLC	USEPA
PMD-AM-S	AMS by Sodium Nitrate Titration	USEPA
7501	Amorphous silica by X-Ray Diffraction	NIOSH
NH3-01	Ammonium in Water	USDOE/EML
I1550	Ammonia plus Organic Nitrogen in Water	USDOI/USGS
I2552	Ammonia plus Organic Nitrogen in Water	USDOI/USGS
I2558	Ammonia plus Organic Nitrogen in Water	USDOI/USGS
I4552	Ammonia Plus Organic Nitrogen in Water	USDOI/USGS
I7552	Ammonia Plus Organic Nitrogen in Water	USDOI/USGS
I5553	Ammonia plus Organic Nitrogen in Solids	USDOI/USGS
I6552	Ammonia Plus Organic Nitrogen in Solids	USDOI/USGS
NITRO-18	Ammonia Plus Amino Acids	USDOC/NOAA
350.3	Ammonia Nitrogen Using an ISE	USEPA
350.2(A)	Ammonia Nitrogen Using an ISE	USEPA
I1524	Ammonia Nitrogen in Water Using an ISE	USDOI/USGS
I3524	Ammonia Nitrogen in Water Using an ISE	USDOI/USGS
350_M(B)	Ammonia Nitrogen in Water by Titration	USEPA
D1426(A)	Ammonia Nitrogen in Water by NESSLR	ASTM
D1426(B)	Ammonia Nitrogen in Water by Ion Electrode	ASTM
350_M(A)	Ammonia Nitrogen in Water by Colorimetry	USEPA
I2521	Ammonia Nitrogen in Water by Colorimetry	USDOI/USGS
I2522	Ammonia Nitrogen in Water by Colorimetry	USDOI/USGS
I2523	Ammonia Nitrogen in Water by Colorimetry	USDOI/USGS
I4521	Ammonia Nitrogen in Water by Colorimetry	USDOI/USGS

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I4522	Ammonia Nitrogen in Water by Colorimetry	USDOI/USGS
I4523	Ammonia Nitrogen in Water by Colorimetry	USDOI/USGS
8038	Ammonia Nitrogen in Water	HACH
350_M(C)	Ammonia Nitrogen in Water	USEPA
350.2(C)	Ammonia Nitrogen by Titration	USEPA
I1520	Ammonia Nitrogen by Nesslerization	USDOI/USGS
I6522	Ammonia Nitrogen by Colorimetry in Solid	USDOI/USGS
I6523	Ammonia Nitrogen by Colorimetry in Solid	USDOI/USGS
350.1	Ammonia Nitrogen by Colorimetry	USEPA
350.2(B)	Ammonia Nitrogen by Colorimetry	USEPA
4500-NH3(F)	Ammonia in Water Using Phenate Method	APHA
4500-NH3(G)	Ammonia in Water Using Automated Phenate Method	APHA
4500-NH3(C)	Ammonia in Water by Titrimetric Method	APHA
4500-NH3(E)	Ammonia in Water by Selective Electrode Method (Known Additi	APHA
4500-NH3(D)	Ammonia in Water by Selective Electrode Method	APHA
NITRO-2	Ammonia in Water - Phenate	USDOC/NOAA
NITRO-24	Ammonia in Water - Ion Selective	USDOC/NOAA
4500-NH3(H)	Ammonia in Water - Flow Injection Analysis	APHA
NITRO-23	Ammonia in Water - Distillation	USDOC/NOAA
NITRO-1	Ammonia in Water - AutoAnalyzer	USDOC/NOAA
NITRO-17	Ammonia in Saline Water	USDOC/NOAA
NITRO-4	Ammonia - Colorimetric	USDOC/NOAA
NITRO-3	Ammonia - AutoAnalyzer	USDOC/NOAA
6015	Ammonia	NIOSH
PMD-AMT	Amitrole by Visible Spectroscopy	USEPA
3509	Amioethanol compound II	NIOSH
2007	Amioethanol compound I	NIOSH
2002	Amines, Aromatics by GC/FID	NIOSH
2010	Amines, Aliphatic by GC/FID	NIOSH
645	Amine Pesticides and Lethane in Water	USEPA
2004	Amides by GC/FID	NIOSH
AM-03(W)	Americium-241 in Water	USDOE/EML
AM-03(T)	Americium-241 in Tissue	USDOE/EML
AM-02	Americium-241 in Soil	USDOE/EML
AM-01	Americium-241 in Ashed Samples	USEPA
AM-03(A)	Americium-241 in Air Filters	USDOE/EML
AM-01	Americium in Soil	USDOE/EML
D3824(A)	Ambient NOx by Chemiluminescence	ASTM
3500-AL(E)	Aluminum in Water with an AutoAnalyzer	APHA
3500-AL(C)	Aluminum in Water by ICP	APHA
3500-AL(B)	Aluminum in Water by FLAA or GFAA	APHA
D857(A)	Aluminum in Water by FLAA (discontinued 1988)	ASTM
D857(C)	Aluminum in Water by FLAA (discontinued 1988)	ASTM
D857	Aluminum in Water by FLAA	ASTM
I1051	Aluminum in Water by FLAA	USDOI/USGS
I3051	Aluminum in Water by FLAA	USDOI/USGS
I7051	Aluminum in Water by FLAA	USDOI/USGS
3500-AL(D)	Aluminum in Water by Colorimetry	APHA
D857(B)	Aluminum in Water by Chelation and FLAA (discontinued 1988)	ASTM
I1052	Aluminum in Water by Chelation and FLAA	USDOI/USGS
I3052	Aluminum in Water by Chelation and FLAA	USDOI/USGS
I7052	Aluminum in Water by Chelation and FLAA	USDOI/USGS

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920.198	Aluminum in Water	AOAC
I5051	Aluminum in Bottom Material by FLAA	USDOI/USGS
202.2	Aluminum by GFAA	USEPA
202.2_M	Aluminum by GFAA	USEPA
202.1	Aluminum by FLAA	USEPA
7020	Aluminum by FLAA	USEPA
202.1_M	Aluminum by FLAA	USEPA
I1054	Aluminum by D-C Plasma Spectrometry	USDOI/USGS
I3054	Aluminum by D-C Plasma Spectrometry	USDOI/USGS
I7054	Aluminum by D-C Plasma Spectrometry	USDOI/USGS
920.196	Aluminum and Iron in Water	AOAC
7013	Aluminum and Compounds	NIOSH
RA020	Alpha Track Detectors for Alpha Emission	USDOE/ASD
D3084	Alpha Spectrometry of Water	ASTM
D1943	Alpha Particle Radioactivity of Water	ASTM
9315	Alpha Emitting Radium Isotopes in Water	USEPA
5518	alpha and beta Naphthylamines by GC/FID	NIOSH
2545	Allyl Glycidyl Ether by GC/FID	NIOSH
1000	Allyl Chlorine by GC/FID	NIOSH
C-001-1	Alkalinity of Water by Titration	USEPA
973.43	Alkalinity of Water	AOAC
2320	Alkalinity in Water by Titration	APHA
310.1_M	Alkalinity in Water by Titration	USEPA
I1030	Alkalinity in Water by Titration	USDOI/USGS
I2030	Alkalinity in Water by Titration	USDOI/USGS
D3875	Alkalinity in Water	ASTM
310.1	Alkalinity by Titration	USEPA
310.2	Alkalinity by Colorimetric Analysis	USEPA
8221	Alkalinity by Buret Titration	HACH
7401	Alkaline Dusts by Titration	NIOSH
B8502	Algal Growth Potential (AGP) Spikes for Nutrient Limitation	USDOI/USGS
5502	Aldrin by GC/ECD	NIOSH
2539	Aldehydes, Screening	NIOSH
1667	Aldehydes by Derivatization and HPLC	USEPA
TO-5	Aldehydes and Ketones in Air	USEPA
1403	Alcohols IV by GC/FID	NIOSH
1402	Alcohols III by GC/FID	NIOSH
1401	Alcohols II by GC/FID	NIOSH
1400	Alcohols I by GC/FID	NIOSH
PMD-AKY(GC1)	Alachlor by GC	USEPA
PMD-AKY(GC2)	Alachlor by GC	USEPA
1605	Aeromonas in Finished Water Membrane Filtration Using Ampic	USEPA
990.12	Aerobic Plate Count in Foods	AOAC
9562	Adsorbable Organic Halogens	ISO
B6700	Adenosine triphosphate (ATP) Determination in Water Sample	USDOI/USGS
9250-B	Actinomycete Plate Count	APHA
907	Actinides in Drinking Water	USEPA
1604	Acrylonitrile by GC/FID	NIOSH
8031	Acrylonitrile by Gas Chromatography	USEPA
8316	Acrylamide, Acetonitrile and Acrolein	USEPA
8032	Acrylamide by Gas Chromatography	USEPA
8032A	Acrylamide by Gas Chromatography	USEPA

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603	Acrolein and Acrylonitrile in Wastewater	USEPA
626	Acrolein and Acrylonitrile by GC	USEPA
8030A	Acrolein and Acrylonitrile by GC	USEPA
2501	Acrolein	NIOSH
PMD-ACA	Acifluorfen by HPLC	USEPA
7903	Acids, inorganic	NIOSH
D1067(A)	Acidity or Alkalinity of Water	ASTM
D1067(B)	Acidity or Alkalinity of Water	ASTM
D1067(C)	Acidity or Alkalinity of Water	ASTM
973.42	Acidity of Water	AOAC
11020	Acidity in Water by Titration	USDOH/USGS
8219	Acidity in Water	HACH
305.1	Acidity by Titration with a pH Meter	USEPA
305.2	Acidity by Titration Using a pH Meter	USEPA
8010	Acidity by Titration	HACH
200.1(GFAA)	Acid Soluble Metals in Water by GFAA	USEPA
200.1(FLAA)	Acid Soluble Metals in Water by FLAA	USEPA
200.1(ICP)	Acid Soluble Metals - ICP	USEPA
9030A	Acid Soluble and Acid Insoluble Sulfides	USEPA
O3117	Acid Extractable Compounds in Water	USDOH/USGS
8033	Acetonitrile by GC/NPD	USEPA
1606	Acetonitrile	NIOSH
2506	Acetone Cyanohydrin	NIOSH
3506	Acetic Anhydride	NIOSH
1603	Acetic acid by GC/FID	NIOSH
3507	Acetaldehyde by HPLC	NIOSH
2538	Acetaldehyde by GC	NIOSH
PMD-ACG(GC)	Acephate, Dicofof and Triforine by GC	USEPA
5210-B	5-Day Biochemical Oxygen Demand	APHA
405.1	5 Day Biochemical Oxygen Demand	USEPA
PMD-AMN	4-Aminopyridine by UV Spectroscopy	USEPA
5029	4,4'-Methylenedianiline by HPLC	NIOSH
5509	3,3-Dichlorobenzidine and Benzidine HPLC	NIOSH
2528	2-Nitropropane GC/FID	NIOSH
PMD-MBT(UV)	2-Mercaptobenzothiazole by UV Spectroscopy	USEPA
PMD-MBT(TITR)	2-Mercaptobenzothiazole by Titration	USEPA
5001	2,4-D by HPLC/UV	NIOSH
PMD-DCA(GC2)	2,4-D and Silvex by Derivatization GC	USEPA
HERL_008	2,4-D and 2,4,5-T in Urine	USEPA
PMD-DCA(GC1)	2,4-D and 2,4,5-T Esters by GC	USEPA
5018	2,4,7-Trinitrofluoren-9-one HPLC/UV	NIOSH
5516	2,4- and 2,6-Toluenediamine by HPLC/UV	NIOSH
2510	1-Octanethiol by GC/FPD	NIOSH
HERL_014	1-Naphthol in Urine	USEPA
2523	1,3-Cyclopentadiene by GC/FID	NIOSH
1024	1,3 Butadiene by GC/FID	NIOSH
993.15	1,2-Dibromoethane and DBCP in Water	AOAC
3515	1,1-Dimethylhydrazine by Visible Spec.	NIOSH
1601	1,1-Dichloro-1-Nitroethane by GC/FID	NIOSH
1020	1,1,2-Trichloro-1,2,2-Trifluoroethane	NIOSH
1016	1,1,2-Tetrachloro-2,2-Difluoroethane	NIOSH
1019	1,1,2,2-Tetrachloroethane by GC/FID	NIOSH

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1,1,2,2-Tetrabromoethane by GC/FID

NIOSH

EXHIBIT K
UNITS AND VALUE QUALIFIERS
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TSRUC	UOM_TYPE	SHORT_FORM_NAME	DESCRIPTION_TEXT	
199	AREA	ac	Acres	
191	AREA	cm2	Square centimeters	
273	AREA	dm2	Square decimeters	
196	AREA	ft2	Square feet	
194	AREA	ha	Hectares	
195	AREA	in2	Square inches	
193	AREA	km2	Square kilometers	
192	AREA	m2	Square meters	
198	AREA	mi2	Square miles	
190	AREA	mm2	Square millimeters	
274	AREA	nmi2	Square nautical miles	
197	AREA	yd2	Square yards	
139	FLOW	cfm	Cubic feet per minute	
138	FLOW	cfs	Cubic feet per second	
143	FLOW	cm3/hr	Cubic centimeters per hour	
142	FLOW	cm3/min	Cubic centimeters per minute	
141	FLOW	cm3/sec	Cubic centimeters per second	
241	FLOW	drips/min	Drips per minute	
140	FLOW	ft3/day	Cubic feet per day	
161	FLOW	g/day	Grams per day	
160	FLOW	g/hr	Grams per hour	
159	FLOW	g/min	Grams per minute	
158	FLOW	g/sec	Grams per second	
150	FLOW	gal/day	Gallons per day	
149	FLOW	gal/hr	Gallons per hour	
148	FLOW	gal/min	Gallons per minute	
147	FLOW	gal/sec	Gallons per second	
240	FLOW	l/day	Liters per day	
146	FLOW	l/hr	liters per hour	
145	FLOW	l/min	liters per minute	
144	FLOW	l/sec	liters per second	
165	FLOW	lb/day	Pounds per day	
164	FLOW	lb/hr	Pounds per hour	
163	FLOW	lb/min	Pounds per minute	
162	FLOW	lb/sec	Pounds per second	
255	FLOW	m3/hr	Cubic meters per hour	
254	FLOW	m3/min	Cubic meters per min	
239	FLOW	m3/sec	Cubic meters per second	
157	FLOW	mg/day	Milligrams per day	
156	FLOW	mg/hr	Milligrams per hour	
155	FLOW	mg/min	Milligrams per minute	
154	FLOW	mg/sec	Milligrams per second	
152	FLOW	mgal/mnth	Millions of gallons per month	
153	FLOW	mgal/year	Millions of gallons per year	
151	FLOW	mgd	Millions of gallons per day	
59	LEN	Angst	Angstroms	

62	LEN	cm	centimeters
63	LEN	dm	decimeters
67	LEN	ft	feet
66	LEN	in	inches
65	LEN	km	kilometers
64	LEN	m	meters
69	LEN	mi	miles
61	LEN	mm	millimeters
60	LEN	nm	nanometers
70	LEN	nmi	nautical miles
71	LEN	nu	number or gage
238	LEN	per m	per meter
68	LEN	yd	yards
1	NONE	None	None
266	NONE	TU	Toxic Units, dividing 100% by the LC50 (% effluent
56	PROD	g/m2/day	grams per square meter per day
55	PROD	g/m2/hr	grams per square meter per hour
52	PROD	g/m3/day	grams per cubic meter per day
51	PROD	g/m3/hr	grams per cubic meter per hour
57	PROD	lb/acre/yr	pounds per acre per year
54	PROD	mg/m2/day	milligrams per square meter per day
53	PROD	mg/m2/hr	milligrams per square meter per hour
50	PROD	mg/m3/day	milligrams per cubic meter per day
49	PROD	mg/m3/hr	milligrams per cubic meter per hour
277	PROD	mmol/m2/dy	Millimoles per square meter per day
246	PROD	mmol/m2/hr	Millimoles per square meter per hour
58	PROD	MT/km2/yr	metric tons per square kilometer per year
253	PROD	ug/cm2/day	Micrograms per square centimeter per day
99	SUBST	%	Percent
101	SUBST	% by vol	Percent by volume
100	SUBST	% by wt	Percent by weight
282	SUBST	% CaCO3	Percent calcium carbonate
216	SUBST	% sediment	% target/clean sed mix which produces response
267	SUBST	0/00	Parts per thousand
259	SUBST	ADMI value	American Dye Manufacturers Institute Color Value
113	SUBST	amps	Electrical current, amperes
107	SUBST	atm	Pressure, atmospheres
119	SUBST	BTU	Energy, British Thermal Units
120	SUBST	cal	Energy, calories
135	SUBST	Deg	Direction or angle, degrees
132	SUBST	fc/ft2	Light Intensity, foot candles per square foot
218	SUBST	fibers/l	Fibers per liter
130	SUBST	ft-candles	Light Intensity, foot candles
122	SUBST	ft-lbs	Energy, foot pounds
126	SUBST	FTU	Turbidity, Formazin Turbidity Units
6	SUBST	g	grams
26	SUBST	g/cm3	grams per cubic centimeter

37	SUBST	g/kg	grams per kilogram
242	SUBST	g/l	Grams per liter
31	SUBST	g/m2	grams per square meter
20	SUBST	g/m3	grams per cubic meter
243	SUBST	g/ml	Grams per milliliter
279	SUBST	gpg	grains per gallon
124	SUBST	gpm/ft	Drawdown capacity, gallons per minute per foot
289	SUBST	grains	Grains
290	SUBST	Granules	Granule count of substance in pan or tailings
117	SUBST	hp	Power, horsepower
105	SUBST	in/H2O	Pressure, inches of water
103	SUBST	in/Hg	Pressure, inches of mercury
129	SUBST	JCU	Light Intensity, Jackson Candle Units
118	SUBST	Joules	Energy, Joules
127	SUBST	JTU	Turbidity, Jackson Turbidity Units
121	SUBST	kcal	Energy, kilocalories
7	SUBST	kg	kilograms
32	SUBST	kg/m2	kilograms per square meter
21	SUBST	kg/m3	kilograms per cubic meter
284	SUBST	kg/t CaCO3	Kilograms per Ton calcium carbonate
115	SUBST	kw	Power, kilowatts
123	SUBST	Langleys	Energy Intensity, Langleys (cal/sq cm)
9	SUBST	lb	pounds
125	SUBST	lb/in	Tension, pounds per inch displacement
133	SUBST	lm/ft2	Light Intensity, lumens per square foot
131	SUBST	lumens	Light Intensity, lumens
205	SUBST	meq/L	Milli-equivalents per Liter
11	SUBST	metric ton	metric tons
5	SUBST	mg	milligrams
25	SUBST	mg/cm3	milligrams per cubic centimeter
41	SUBST	mg/g	milligrams per gram
36	SUBST	mg/kg	milligrams per kilogram
15	SUBST	mg/l	milligrams per liter
283	SUBST	mg/l CaCO3	Milligrams per liter calcium carbonate
30	SUBST	mg/m2	milligrams per square meter
19	SUBST	mg/m3	milligrams per cubic meter
244	SUBST	mg/ml	Milligrams per milliliter
110	SUBST	mho/cm	Electrical conductivity, mhos per centimeter
136	SUBST	Min	Direction or angle, minutes
245	SUBST	ml/l	Milliliters per liter
106	SUBST	mm/H2O	Pressure, millimeters of water
104	SUBST	mm/Hg	Pressure, millimeters of mercury
247	SUBST	mmol/kg	Millimoles per kilogram
48	SUBST	Molal	Molal
47	SUBST	Molar	Molar
45	SUBST	Mole/l	Moles per liter
215	SUBST	mrem/day	millirems per day

214	SUBST	mrem/yr	millirems per year
207	SUBST	mS/cm	Milli-Siemens per Centimeter
210	SUBST	mV	Millivolts
116	SUBST	mw	Power, megawatts
271	SUBST	nCi/L	Nanocuries per liter
3	SUBST	ng	nanograms
23	SUBST	ng/cm3	nanograms per cubic centimeter
39	SUBST	ng/g	nanograms per gram
34	SUBST	ng/kg	nanograms per kilogram
13	SUBST	ng/l	nanograms per liter
28	SUBST	ng/m2	nanograms per square meter
17	SUBST	ng/m3	nanograms per cubic meter
256	SUBST	nmol/kg	Nano-moles per Kilogram
46	SUBST	Normal	Normal
128	SUBST	NTU	Turbidity, Nephelometric Turbidity Units
8	SUBST	oz	ounces
109	SUBST	Pascal	Pressure, Pascal units
212	SUBST	pCi/g	pico-Curies per gram
211	SUBST	pCi/L	pico-Curies per Liter
209	SUBST	pCi/m2	pico-Curies per square meter
213	SUBST	pCi/m3	pico-Curies per cubic meter
248	SUBST	pCi/ml	pico-Curies per milliliter
208	SUBST	PCU	Platinum Cobalt Units (color)
2	SUBST	pg	picograms
22	SUBST	pg/cm3	picograms per cubic centimeter
38	SUBST	pg/g	picograms per gram
33	SUBST	pg/kg	picograms per kilogram
12	SUBST	pg/l	picograms per liter
27	SUBST	pg/m2	picograms per square meter
16	SUBST	pg/m3	picograms per cubic meter
42	SUBST	ppb	parts per billion
43	SUBST	ppm	parts per million
287	SUBST	ppt	Parts per trillion
44	SUBST	ppth	parts per thousand
102	SUBST	psi	Pressure, pounds per square inch
263	SUBST	PSS	Practical Salinity Scale
262	SUBST	S/m	siemens per meter
137	SUBST	Sec	Direction or angle, seconds
272	SUBST	T.U.	Tritium Unit
285	SUBST	tCaCO3/Kt	Tons of calcium carbonate per kiloton
268	SUBST	TON	Threshold Odor Number
10	SUBST	tons	short tons
252	SUBST	tons/ac ft	Tons per acre feet
249	SUBST	tons/day	Tons per day
108	SUBST	Torr	Pressure, Torr units(vacuum)
134	SUBST	uE/m2/sec	Photosynth. radiation,micro-Einsteins/sq.meter/sec
204	SUBST	ueq/L	Micro-equivalents per Liter

4	SUBST	ug	micrograms
24	SUBST	ug/cm3	micrograms per cubic centimeter
40	SUBST	ug/g	micrograms per gram
35	SUBST	ug/kg	micrograms per kilogram
14	SUBST	ug/l	micrograms per liter
29	SUBST	ug/m2	micrograms per square meter
18	SUBST	ug/m3	micrograms per cubic meter
111	SUBST	umho/cm	Electrical conductivity, micro-mhos per centimeter
264	SUBST	umol	micro mole
265	SUBST	umol/m2/s	micro moles per square meter per second
261	SUBST	umol/S/m2	micro moles per siemen per square meter
278	SUBST	units/cm	Units per centimeter, for UV absorbance
206	SUBST	uS/cm	Micro-Siemens per Centimeter
112	SUBST	volts	Electro-motive force, volts
114	SUBST	Watts	Power, Watts
250	TAX	#/100 gal	Number per 100 gallons
78	TAX	#/100ml	Number per hundred milliliters
251	TAX	#/500 ml	Number per 500 milliliters
88	TAX	#/acre	Number per acre
81	TAX	#/cm2	Number per square centimeter
79	TAX	#/cm3	Number per cubic centimeter
76	TAX	#/dl	Number per deciliter
86	TAX	#/ft2	Number per square foot
84	TAX	#/ha	Number per hectare
85	TAX	#/in2	Number per square inch
83	TAX	#/km2	Number per square kilometer
77	TAX	#/l	Number per liter
82	TAX	#/m2	Number per square meter
80	TAX	#/m3	Number per cubic meter
89	TAX	#/mi2	Number per square mile
75	TAX	#/ml	Number per milliliter
87	TAX	#/yd2	Number per square yard
203	TAX	% Cover	Percent Cover
74	TAX	CFU	Colony Forming Units
257	TAX	cfu/100ml	Colony Forming Units per 100 Milliliters
72	TAX	count	count
73	TAX	MPN	Most Probable Number
288	TAX	MPN/100ml	Most Probable Number per 100 ml
281	TAX	pfu/100ml	Plaque Forming Units per 100 Milliliters
90	TAX	Plate cnt	Plate Count
200	TEMP	deg C	Degrees Celsius (Centigrade)
201	TEMP	deg F	Degrees Fahrenheit
202	TEMP	deg K	Degrees Kelvin
95	TIME	days	Days
94	TIME	hours	Hours
93	TIME	minutes	Minutes
97	TIME	months	Months

91	TIME	ms	Milliseconds
92	TIME	seconds	Seconds
96	TIME	weeks	Weeks
98	TIME	years	Years
166	VEL	cm/sec	Centimeters per second
174	VEL	ft/day	Feet per day
170	VEL	ft/min	Feet per minute
169	VEL	ft/sec	Feet per second
171	VEL	km/hr	Kilometers per hour
168	VEL	km/sec	Kilometers per second
173	VEL	knots	Nautical miles per hour
167	VEL	m/sec	Meters per second
172	VEL	mph	Miles per hour
189	VOL	ac-ft	Acre-feet
180	VOL	cm3	Cubic centimeters
276	VOL	cm3/l	cubic centimeters per liter
177	VOL	dl	Deciliters
178	VOL	drops	Drops
183	VOL	ft3	Cubic feet
187	VOL	gal	Fluid gallons
188	VOL	Imp gal	Imperial gallons
182	VOL	in3	Cubic inches
175	VOL	l	Liters
181	VOL	m3	Cubic meters
176	VOL	ml	Milliliters
275	VOL	mm3/l	cubic millimeters per liter
185	VOL	pt	Fluid pints
186	VOL	qt	Fluid quarts
269	VOL	um3/l	cubic microns per liter
184	VOL	yd3	Cubic yards

EXHIBIT L

Water Quality Database v. 1.5.3.1 - [Get Sample Data]

File Edit View Insert Format Records Tools Window Help Adobe PDF

Help Me With This Form

Util: 06/28/2010

Lab ID:

WO (LIMS):

Sample Date m/d/yyyy

Start

Stop

Presentation/Quantity

☒ Simple Query
☐ All Fields ☐ For Editing
☐ Date Crosstab**
☐ Add Count of Characteristics
☐ Validate Against Historical Range

Get Data

* not all options are available

Select DataSet

☒ Present 1998-2010
☐ Historical 1964-1997

Activity Type

☒ Sample and Msr/Obs Data
☐ Lab and/or Field Duplicate
☐ No Lab DUP (STORET)
☐ ALL Data*

*QC Data in QC Database

Original Data Source

☒ All Data Sources
☐ Specific Data Source

calculated

current

excel

hand_entered

hist

lims

Location

☒ All Locations

StationID

StationName

WBID

☐ Select Location

Clear

A0	East Lake Tohopekaliga (1 mile ou: fr	
A03	East Lake Toho	3172
A1	Alden	
A10	Dillard	
A11	Eagle	
A12	Errol	
...	-	

☒ Order by ID
☐ Order by Name
☐ Order by WBID

☐ Type Location

Station IDs (comma separated):

☒ or ☐ and

Contains (LIKE statement)

Does not contain (NOT LIKE statement)

☒ Allow LIKE statements to search Station Names

Characteristics

☒ All Characteristics
☐ Select Characteristics

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethylene
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropylene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene

☐ Metals
☐ Algae
☐ Nutrients
☐ Field Readings
☐ Chlorophyll
☐ Wet Chemistry
☐ Bacteria
☐ Organics
☐ Temperature

Clear All

Get TSI

☒ By Year
☐ By Year with Slope/R-Squared Data (may take a few minutes)
☐ By Sample Date

☐ Include AAL

Non-STORET Restrictions

☐ Restrict After Date Added to dB

Export to STORET

STORET Upload (Import Date)

☐ Restrict After Date ADDED

pH 4 Lot No. _____

pH 7 Lot No. _____

pH 10 Lot No. _____

pH 5 Lot No. _____

pH Buffer: _____



Accumet pH Meter-910
Serial No. 6475

**OCEPD-WATER QUALITY
ACCUMET pH METER - 910**

[illegible]

Agar: _____

[illegible]

EXHIBIT O



Case Narrative

Date: _____

Sample I.D. Number: _____ W.O. # _____

Sample Matrix: Water Soil Sludge Other: _____

Site Description:

Date Received: _____ Date Reported: _____

Date Analyzed: _____ Holding Time Met: Yes No

Problems: _____

Comments: _____

Analyst: _____ Date: _____

QC By: _____ Date: _____

Q A Officer _____ Date: _____

Instrument Used: Perkin-Elmer UV/VIS Spectrometer Lambda 25 Serial Number 101N5121705

Reagent: 90% Acetone	Lot #
Reagent: Magnesium Carbonate	Lot #
Reagent: 0.1 N HCl	Lot #

[illegible]

Color
EPA Method 110.2

LCS (35 PCU)-Ref.# EPDR0242

[illegible]

Q.C. _____

Color
EPA Method 110.2

Instrument: Orbeco -Hellige Aqua Tester

EXHIBIT R

Work Order# _____

Project Type: _____

Office Collecting sample _____

Sample Collector _____

Enterococci Media Batch : _____

Incubator 24 +/- 2 hours @ 41 +/- 0.5 C
Serial No. 699020018

Enterococci Range is 20-60 Colonies

Method 1600: Enterococci in Water by MF using (mEI)
Membrane-Enterococcus Indoxyl- β -D-Glucoside Agar

[illegible]

QC _____
Batch: _____
HBN: _____

EXHIBIT T

Thermometer ID: 2944
FC Media :
Peptone :

Work Order# _____
Project Type: _____
Office Collecting sample _____
Sample Collector _____

Waterbath Requirements: 24 +/- 2 hours @ 44.5 +/- 0.2 C
Serial Num. 699091230
FC Range is 20-60 Colonies
MF for FC Method: S1MS222D

[illegible]

QC _____
Batch: _____
HBN: _____

S:\Nat. Resources Mgt\Water Quality Mgt\Form Rev\Micro Forms \FC Micro MF Benchsheets

EXHIBIT U

Pour Plate Method for Heterotrophic Plate Count SM9215 B

Incubation Requirements: 48 hours +/- 3hrs @ 35.0 +/- 0.5 C

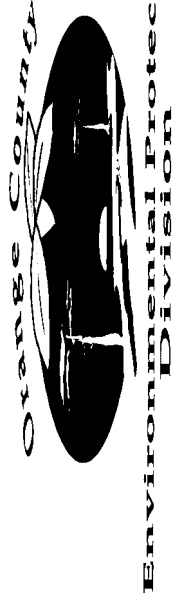
[illegible]

EXHIBIT V

Collection Date: _____

Monthly DI System Report

Work Order # _____
Refer to TRC/Conductivity Log to see Results



Monthly DI System QC

[illegible]

pH Analysis time: _____
HPC Poured Date/Time: _____
Incubation Time _____
Analyzed Date/Time: _____
QC: _____

Collection Date: _____

Monthly DI System Report

Work Order # _____
Refer to TRC/Conductivity Log to see Results

Remark

pH Analysis time: _____
HPC Poured Date/Time: _____
Incubation Time: _____
Analyzed Date/Time: _____
QC: _____

Prepared Commercial Media

ATCC
American Type Culture Collection
www.Microbiology.com
4 Passages From Reference Culture

[illegible]

[illegible]

Quarterly Calibration : Initial Reading→→→→→Cal. Reading-----
 1000 NTU Std M-----Reading:-----Cal.-----
 10.0NTU Std M-----Reading:-----Cal.-----
 0.02 NTU Std M-----Reading :-----Cal.-----

Analyst: _____

Date & Time Analyzed: _____

Instrument: HF Scientific Turbidimeter – Micro 100

Date Initial Calibration:

Next Cal Due: _____

Check Std #1 / Reference #: _____

Check Std #2 / Reference #:

True Value:

True Value:

Exp. Date: _____

Exp. Date: _____

* (Values should be reported: 0-1.0 to nearest 0.05, 1-10 to nearest 0.1, 10-40 to nearest 1, 40-100 to nearest 5, 100-400 to nearest 10, 400-1000 to nearest 50.)

Batch _____ HBN

QC'd By: _____

Date:

Page:

ENTERPRISE SECURITY STANDARDS, POLICIES, AND GUIDELINES

ANTIVIRUS STANDARDS

1.0 Purpose

The purpose of this document is to establish requirements which must be met by all computers connected to the Orange County Government Board of County Commissioners (OCGBCC) network to ensure effective virus detection and prevention.

2.0 Scope

This document applies to all OCGBCC computers running any version of the Microsoft Windows Operating Systems. This includes, but is not limited to, all servers, desktop computers, laptop computers, PC-based printers and appliances.

3.0 Policy

3.1 Virus Software – Servers

Trend Micro Server Protect shall be installed and enabled on all OCGBCC computers running any server version of the Microsoft Windows Operating Systems.

3.2 Virus Software – Workstations

Trend Micro OfficeScan shall be installed and enabled on all OCGBCC computers running any non-server version of the Microsoft Windows Operating Systems.

3.3 Virus Software – Exchange Servers

Trend Micro ScanMail shall be installed and enabled on all OCGBCC computers running Microsoft Exchange Server.

3.4 Virus Software – Internet Mail

All incoming and outgoing internet email shall be scanned by Trend Micro InterScan Messaging Security Suite before being delivered.

3.5 Virus scanning

Antivirus software shall be running at all times on the computers on which it is installed. Antivirus scans of servers shall be executed on a weekly basis in accordance with the schedules set in Trend Micro Server Protect. Antivirus scans of workstations shall be executed on a weekly basis in accordance with the schedules set in Trend Micro OfficeScan.

4.0 Guidelines

- When employees receive unwanted and unsolicited emails, they should be deleted and should avoid replying to the sender. These messages should not be forwarded.
- Employees should never open any files or macros attached to an email from an unknown, suspicious or untrustworthy source. These attachments should be deleted immediately. These messages should not be forwarded.
- Employees should never download files from unknown or suspicious sources.

5.0 Enforcement

Trend Micro's antivirus products are installed on all servers and workstations during the initial installation of the operating systems, and are continuously monitored to ensure they are running. Any employee or temporary found to have willfully stopped and/or paused these programs will be considered to be violating these policies and may be subject to disciplinary action, up to and including termination of employment.

6.0 Definitions

Term

Virus

Definition

A program or piece of code that is loaded onto your computer without your knowledge and runs against your wishes. Viruses can also replicate themselves. All computer viruses are manmade. A simple virus that can make a copy of its self over and over again is relatively easy to produce. Even such a simple virus is dangerous because it will quickly use all available memory and bring the system to a halt. An even more dangerous type of virus is one capable of transmitting itself across networks and bypassing security systems.

7.0 Revision History

ENTERPRISE SECURITY STANDARDS, POLICIES, AND GUIDELINES

ENCRYPTION AND CERTIFICATION AUTHORITIES

1.0 Purpose

The purpose of this document is to ensure that all Orange County Government Board of County Commissioner's (OCGBCC) sensitive data is secured by using strong encryption algorithms that have received substantial public review and have been proven to work effectively. Orange County Information Systems and Services Enterprise Security unit (ISS-ESU) provides access to a variety of Encryption Services and Enterprise Certification Authorities (CA).

2.0 Scope

This document applies to all data transmitted and stored within the OCGBCC information systems. It applies to all OCGBCC employees, consultants, and all other affiliated third parties operating within the OCGBCC information systems and networks.

3.0 Policies

3.1 Activity

- 3.1.1** Any and all activity within and through the OCGBCC information systems involving encryption shall require direct involvement and documented approval by the Information Systems and Service Enterprise Security unit (ISS-ESU).
- 3.1.2** The ISS-ESU shall approve the storage and transfer of any data containing personal information and/or residing in the DMZ.

3.2 Encryption Algorithms

- 3.2.1** One of the following standard encryption ciphers shall be used to encrypt data. The key length for these algorithms shall be no less than 128bits:
 - Triple-DES (3DES)
 - Rijndael (AES)
 - RSA
 - Blowfish
 - Twofish
 - CAST
- 3.2.2** PGP is an approved encryption standard provided that the PGP private key used to encrypt and /or sign data has been generated using a cipher meeting the requirements in section 3.2.1.

3.3 Data Hashing

The following standard data hashing algorithms shall be used to hash data. The key length for the algorithms shall be no less than 128bits.

- MD5
- SHA-1
- SHA-2

3.4 SSL Certificates

Web Server, SSH, IMAPS, SMTPS SSL certificates should have key lengths of no less than 128bits.

3.5 Sensitive Data

Any data containing sensitive information, including, but not limited to: name, addresses, phone numbers, email addresses, birthdates, federal/state/local document numbers, account numbers, race or religious information, employee identification numbers and all HIPAA information, should be encrypted when stored and during network transfers.

3.6 DMZ

- 3.6.1** Any and all activity within and through the OCGBCC DMZ shall require direct involvement and documented approval by the Information Systems and Service Enterprise Security unit (ISS-ESU).
- 3.6.2** Any data accessible within the OCGBCC DMZ or directly accessible from it should be encrypted.
- 3.6.3** Any data accessible within the OCGBCC DMZ or directly accessible from it meeting the following criteria shall be encrypted: name, addresses, phone numbers, email addresses, birthdates, federal/state/local document numbers, account numbers, race or religious information, employee identification numbers and all HIPAA information.

3.7 Data Backups

- 3.7.1** Any backup of OCGBCC should be encrypted. Sensitive data as listed in 3.5 of this document shall be backed up using encryption algorithm standards found in 3.2.

3.8 Laptops and Removal Devices

- 3.8.1** All laptop hard drives should be encrypted.
- 3.8.2** Any sensitive data (see section 3.5 of this document) stored on laptops and removable devices shall be encrypted.
- 3.8.3** All individuals who work with sensitive data (see section 3.5 of this document) shall have their laptop hard drives encrypted.

4.0 Guidelines

- SSL certificates issued to servers and applications used by internet users should be provided by commercial CA authorities (i.e. Verisign, Thawte) to avoid security warnings from being presented to the end users.
- SSL certificates issued to servers and applications used by internal OCGBCC resources should be issued by OCGBCC's Certification Authority.

5.0 Enforcement

Any employee found to have violated these policies may be subject to disciplinary action, up to and including termination of employment.

6.0 Definitions

Term	Definition
Encryption	Transforming understandable data into a form that is incomprehensible and that looks like random noise.
Hashing	An algorithm that takes an entire message and, through process of shuffling, manipulating, and processing the bytes using logical operations, generates a small message digest of the data.
DMZ	De-Militarized Zone – A computer term used for a protected network that sits between the Internet and the corporate network.
Certification Authority (CA)	In cryptography, a certificate authority or certification authority (CA) is an entity which issues digital certificates for use by other parties.

7.0 Revision History

ENTERPRISE SECURITY STANDARDS, POLICIES, AND GUIDELINES

WEB SECURITY STANDARD

1.0 Purpose

The purpose of this document is to establish requirements that will better manage and secure all web server platforms within the Orange County Government Board of County Commissioners (OCGBCC).

2.0 Scope

The scope of this document applies to all web server platforms located within the OCGBCC.

3.0 Policies

3.1 Activity

Any and all web server installations, removals or modifications shall require the direct involvement and documented approval by the Information Systems and Service Enterprise Security unit (ISS-ESU).

3.2 Hardware

- 3.2.1 All hardware platforms operating as a web server shall abide by all standards, policies and guidelines of the OCGBCC Enterprise Systems unit.
- 3.2.2 All hardware platforms operating as a web server shall reside on server hardware. Any exception shall require a documented waiver by the Information Systems and Services Enterprise Security unit (ISS-ESU).

3.3 Software

3.3.1 Web Server Platforms

3.3.1.1 Microsoft

Microsoft's Internet Information Server (IIS) is the approved, supported web server platform for OCGBCC.

3.3.1.2 Apache Software Foundation

Apache Software Foundation's HTTP Server (Apache) is approved but is unsupported. Any production use of (Apache) shall include an appropriate support model that is approved by the ISS-ESU.

3.3.1.3 Other

Other web server platforms may qualify for use, but shall require an evaluation, approval and a documented waiver by the ISS-ESU.

3.3.2 Databases

3.3.2.1 Location

A database server shall not reside on the same hardware platform as a web server.

3.4 Security

3.4.1 General

All web servers shall comply with all other documented ISS-ESU standards to include, but not limited to: virus, patch and account management.

3.4.2 Account Management

3.4.2.1 Local Account Access

Only accounts with local administrator privileges shall be allowed to log on locally to a web server.

3.4.2.2 Process/Application Accounts

All web server processes and applications shall run only under a low privilege local account. Web server processes shall not run under an account with domain, power user or a local administrator privileges.

3.4.2.3 Web Server Anonymous Accounts

Web server anonymous accounts shall only have read and execute permissions to folders/files within the web server directories. Change

and delete permissions to folders/files that are directly accessible via a web browser shall not be granted to web server anonymous accounts.

3.4.3 Permissions

3.4.3.1 Operating System Permissions

ISS-ESU shall secure the operating system's file/folder permissions and security policies of all web servers. These permissions are to be modified solely by ISS-ESU.

3.4.3.2 Vendor/Third Party Access

Local administrator privileges on web servers are for authorized personnel only. Access to vendors and any other third party shall be provided solely on a temporarily, case-by-case basis through ISS-ESU.

3.4.3.3 Developer Access

Developer access to web server content directories shall be available by WebDav or FrontPage server extensions only. Developers shall be granted "Author Pages" rights with the FrontPage Server Extensions

3.4.4 Java Server Engines

Java server engines are approved but are not supported. Any production use of a Java server engine shall include an appropriate support model that is approved by (ISS-ESU).

3.4.5 FTP

Web servers that also run an FTP server shall not map FTP directories to directories accessible via a web browser.

3.4.6 IIS Virtual Directories, Application Pools, Settings

Any and all creations, removals or modifications to IIS Settings, Virtual Directories, Application Directories, and Application Pools shall require the direct involvement and documented approval by the Information Systems and Service Enterprise Security unit (ISS-ESU).

3.4.7 Other

- Shares are not allowed on any directory accessible via web browser.
- Microsoft Windows web servers and any web application shall not be installed on the same drive as the host operating system.
- Executable files (.exe, .com, .bat, .dll, etc) shall not be placed into directories accessible via a web browser without the direct involvement and documented approval by the Information Systems and Service Enterprise Security unit (ISS-ESU).

4.0 Guidelines

- It is recommended that all web applications use the enterprise FTP and SMTP servers for all FTP/SMTP traffic.

5.0 Enforcement

Any web server not meeting the above criteria may be immediately disconnected from the OCGBCC network. Any employee found to have violated these policies may be subject to disciplinary action, up to and including termination of employment.

6.0 Definitions

Term

FTP

Definition

File Transfer Protocol – The protocol for exchanging files over the Internet. FTP works in the same way as HTTP for transferring Web pages from a server to a user's browser and SMTP for transferring electronic mail across the Internet in that, like these technologies, FTP uses the Internet's TCP/IP protocols to enable data transfer. FTP is most commonly used to download a file from a server using the Internet or to

WebDav	upload a file to a server. Web-based Distributed Authoring and Versioning – Extensions to HTTP that allows users to collaboratively edit and manage files on remote Web servers.
Front Page Extensions	A series of scripts that can be employed using Microsoft FrontPage, a visual HTML editor.
SMTP	Simple Mail Transfer Protocol – A protocol for sending e-mail messages between servers. In addition, SMTP is generally used to send messages from a mail client to a mail server.

7.0 Revision History

ENTERPRISE SECURITY STANDARDS, POLICIES, AND GUIDELINES**EXTERNAL DATA HOSTING STANDARD****1.0 Purpose**

The purpose of this policy is to establish a standard in order to execute the proper retrieval, storage, transmission, processing, and handling of electronic data.

2.0 Scope

This document applies to all vendors, networks, systems, and applications that will transmit, process, store, or handle electronic data provided by Orange County Government Board of County Commissioner's (OCGBCC) .

3.0 Audience

This document is intended for distribution to those that are involved in the retrieval, storage, transmission, processing, and handling of electronic data.

4.0 Policies**4.1 Data Input and Processing**

- 4.1.1 Any use of Social Security Number information shall adhere to and abide by Florida Statutes, specifically F.S. 119.071.
- 4.1.2 The hosted application shall not have access to social security information.
- 4.1.3 The hosted application shall not have access to data containing bank information.

4.2 Data Storage and Handling

- 4.2.1 Any data accessible from the hosted application meeting the following criteria shall be encrypted: Name, addresses, phone numbers, email addresses, birthdates, federal/state/local document numbers, account numbers, race or religion information, employee identification numbers, HIPAA and all PCI information.
- 4.2.2 Any data accessible from the hosted application or directly accessible from it should be encrypted.

4.3 Transmission of Data

- 4.3.1 Any data referenced above shall be transmitted within an encrypted tunnel.

4.4 Disposal of Data

Once data is no longer needed or must be removed from the system it shall be sanitized and disposed using one of the methods below:

- 4.4.1 Sanitization - Overwriting of data previously stored on a disk or drive with a random pattern of meaningless information.
- 4.4.2 Destruction - Physically damaging a medium so that it is not usable by any device that may normally be used to read information on the media such as a computer, tape reader, audio or video player.
- 4.4.3 Purging data - Using strong magnetic devices; such as a degausser, it is possible to render data unrecoverable.

4.5 External Audit

- 4.5.1 The vendor must ensure that the web hosting environment and the application is secured using information security best practices.
- 4.5.2 The external service, system, and application must pass a yearly penetration test performed by Orange County ISS personnel.

5.0 Definitions**Term****Electronic Media****Definition**

Physical objects on which data can be stored, such as hard drives, zip drives, CD-ROMs, DVDs, USB drives, and tapes.

Sanitization

To expunge data from storage media so that data recovery is impossible.

**Physical Destruction
Florida Statue 119.071**

A sanitization method for optical media, such as CDs.
Detailed guidelines on usage of Social Security information

Orange County Board of County Commissioners

Desktop Computing Standards

November 2010

AUTHORIZED PRODUCTS

1: **HARDWARE**

Dell Desktop minitower and small form factor (SFF) PC

- ◆ Dell GX960
 - ◆ Energy Smart system enabled
 - ◆ Intel Core 2 Duo processor or better
 - ◆ Minimum 2 Gb of Memory
 - ◆ Maximum 4 Gb Memory
 - ◆ USB Keyboard and Mouse
 - ◆ 160 GB SATA Hard drive
 - ◆ DVD+/- RW
 - ◆ 4 Year Basic Limited Warranty and 4 year Onsite Service
 - ◆ Intel vPro enabled

Dell Laptop

- ◆ Dell Latitude e6510
 - ◆ Intel Core 2 Duo processor or better
 - ◆ Minimum 2 Gb of Memory
 - ◆ Maximum 4 Gb of memory
 - ◆ CD-RW/DVD
 - ◆ 80 GB Hard Drive
 - ◆ 4 Year Limited Warranty and 4 year Onsite Service
 - ◆ Intel vPro enabled
- ◆ Dell Latitude e4300
 - ◆ Intel Centrino Core 2 Duo processor
 - ◆ Minimum 2 Gb memory
 - ◆ Maximum 4 Gb memory
 - ◆ CD-RW/DVD
 - ◆ 80 Gb Hard Drive
 - ◆ 4 Year Limited Warranty
 - ◆ Intel vPro enabled
 - *All PCs with 4yr limited warranty*
- ◆ HP Mini Netbook- 5101
 - ◆ Display- 10.1 diagonal 16:9 Illumi-lite LED SD display (1024x756)
 - ◆ Processor- Intel Atom N270
 - ◆ Memory- 2 Gb
 - ◆ Wireless LAN- 802.11 b/g, wired- Broadcom integrated Nic
 - ◆ Gobi- Integrated Sprint wireless broadband controller

- ◆ PDAs- Blackberry Devices Only

2: OPERATING SYSTEMS and PROTOCOLS

Desktop/Laptop

- ◆ Microsoft Windows 7 Professional with IE 8 (for new PCs)
- ◆ Microsoft Windows XP Service Pack 3 (for existing PCs)
- ◆ Internet Explorer 7.0- *IE7 is current County Standard. IE6 is available for backwards compatibility.*
 - ◆ *Application software may specifically require a certain Internet Explorer version. Contact ISS for assistance as needed. ServiceCenter@ocfl.net*
- ◆ Microsoft Office 2003 or greater (Standard or Professional Suite)

Portable Devices

- ◆ Blackberry OS

Network Connectivity

- ◆ Cisco Wireless Access Points, Cisco 802.11 LAN Card
- ◆ TCP/IP
- ◆ Sprint Wireless AirCard

3: CLIENT DATABASES

Desktop/Workstations Only, Single User Only

- ◆ Microsoft Access (user databases not supported)
- ◆ Oracle Client
- ◆ SQL Server Client

5: PERIPHERALS and ACCESSORIES

- ◆ HP LaserJet series
 - ◆ Black and White LaserJet
 - ◆ P1606dn < 4 users
 - ◆ P3015dn (supports secure printing – PIN)
 - ◆ P4015dn 8+ users (supports secure printing -- PIN)
 - ◆ Color LaserJet
 - ◆ CP2025dn
 - ◆ CP4525dn 7+ users (supports secure printing – PIN)
 - ◆ 5550dn 15+ users (supports secure printing – PIN)
- ◆ *Desktop Copier and combo unit purchases directly connected to the PC must be reviewed and approved by ISS. Contact ServiceCenter@ocfl.net for more information and assistance.*

UNSUPPORTED PRODUCTS

1: HARDWARE

- ◆ Pre-Pentium class desktop systems
- ◆ Non-Dell PCs

- ◆ Non-Blackberry Smartphones

2: OPERATING SYSTEMS AND PROTOCOLS

- ◆ Microsoft Windows 2000
- ◆ Microsoft Windows NT 4.0
- ◆ Microsoft Windows 3.x, Windows 95 and 98
- ◆ MAC OS

3: CLIENT DATABASES

- ◆ Dbase
- ◆ RBASE
- ◆ Paradox
- ◆ FOXPRO

4: DESKTOP APPLICATIONS

Desktop/Workstation

- ◆ MS Office platforms prior to Office 2000
- ◆ ProComm
- ◆ Microsoft Internet Explorer, 4.x, 5.x
- ◆ McAfee Viruscan **Trend Micro is OCGOV standard*
- ◆ WordPerfect
- ◆ Quattro
- ◆ Hotmetal
- ◆ Freelance
- ◆ Harvard Graphics
- ◆ Lotus Suite
- ◆ Netscape, Opera, Firefox Browsers
- ◆ Rumba
- ◆ LAN Workplace
- ◆ Exceed
- ◆ Visio 3.x and older
- ◆ SHL Vision & Vision Express, WIN9x/WINNT/UNIX
- ◆ McAfee Remote Desktop32
- ◆ Reflection version 9 or lower
- ◆ PC Anywhere

5: PERIPHERALS AND ACCESSORIES

- ◆ HP LaserJet Series 4 and older printers
- ◆ Inkjet printers

PROHIBITED PRODUCTS

1: HARDWARE

- ◆ Personal (non-County) PCs
- ◆ Any network (voice or data) device not operated, administered or expressly approved by Orange County ISS.

- ◆ Any internet access device not operated, administered or expressly approved by Orange County ISS.

2: OPERATING SYSTEM AND PROTOCOLS

- ◆ Windows 9x
- ◆ Windows Vista
- ◆ 64 bit operating systems

Network Protocols

- ◆ NETBUI
- ◆ AppleTalk
- ◆ Token Ring
- ◆ Any network (voice or data) software or service not operated, administered or expressly approved by Orange County ISS.
- ◆ Any internet access service not operated, administered or expressly approved by Orange County ISS.

3: APPLICATIONS

- ◆ Any Alpha/Beta Software not operated, administered or expressly approved by Orange County ISS
- ◆ Anti-virus products other than Trend Micro
- ◆ Personal firewall products
- ◆ Network scanning tools
- ◆ Remote access software other than ISS authorized VPN
- ◆ User installed screen savers
- ◆ Games
- ◆ 3rd Party Desktops
- ◆ Disk Compression
- ◆ Non-Static BITMAP Backgrounds or screen savers
- ◆ iTunes (or other content sharing applications)
- ◆ P2P software

4: PERIPHERALS AND ACCESSORIES

- ◆ Portable music devices
- ◆ Personal (non-County) mass storage devices (hard drives, thumb drives, etc)
- ◆ Webcams

Orange County Government BCC – Standards Summary

The following is a summary of key points in the Orange County Government Board of County Commissioners (OCGBCC) security standards. It is necessary for vendors to completely understand and follow these requirements in order for products or services to be considered for placement within the OCGBCC environment. Complete details about these standards can be found in the Orange County Government Standards and Guidelines packet.

Web Servers

Web and Database Placement

A database server shall not reside on the same hardware platform as a web server.

Anonymous Accounts

Web server anonymous accounts shall only have read and execute permissions to folders/files within the web server directories. Change and delete permissions to folders/files that are directly accessible via a web browser shall not be granted to web server anonymous accounts.

DMZ

Web Server Platforms

Microsoft Internet Information Server (IIS) version 5.0 or higher shall be the only platform within the OCGBCC DMZ to run as a Web or FTP server.

Services and Protocols

Traffic using the following protocols from the OCGBCC DMZ to the internal network shall not be allowed: Kerberos, NetBIOS, Microsoft-DS, Microsoft's Well Known Ports, LDAP, RPC, SMB, RDP, HTTP, HTTPS, DNS, JOLT.

Encrypted Data

Any data accessible within the OCGBCC DMZ or directly accessible from it meeting the following criteria shall be encrypted: Name, addresses, phone numbers, email addresses, birthdates, federal/state/local document numbers, account numbers, race or religious information, employee identification numbers and all HIPAA information. The OCGBCC DMZ shall not have access to data containing bank information. The OCGBCC DMZ shall not have access to social security information.

Data Access

The OCGBCC DMZ shall have read only access to live data, if such data is also used by applications residing in the internal OCGBCC network.

Antivirus

Virus scanning

Antivirus software shall be running at all times on the computers on which it is installed

Microsoft Security Patches

Patch Installation

MS Security patches may be applied immediately upon release by Microsoft. All vendors must support their applications in this environment.
