STATE OF CALIFORNIA
STANDARD AGREEMENT
STD 213 (Rev 06/03)

AGREEMENT NUMBER
10-C0102
REGISTRATION NUMBER
1139051

1. This Agreement is entered into between the State Agency and the Contractor named below:

STATE AGENCY'S NAME
Department of Pesticide Regulation (DPR)

CONTRACTOR'S NAME
The Regents of the University of California

2. The term of this Agreement is: March 1, 2011 or upon final approval by the State, which ever occurs later, through June 30, 2013

3. The maximum amount of this Agreement is: **$245,893.00**
Two hundred forty-five thousand eight hundred ninety-three dollars and no cents

4. The parties agree to comply with the terms and conditions of the following exhibits which are by this reference made a part of the Agreement.

Exhibit A – Scope of Work	5 Pages
Exhibit B – Budget Detail and Payment Provisions	4 Pages
Exhibit C* – General Terms and Conditions (GIA 610)	
Exhibit D - Special Terms and Conditions	1 Page
Exhibit E – Additional Terms and Conditions	1 Page
Exhibit F – Resumes	12 Pages

Items shown with an Asterisk (*), are hereby incorporated by reference and made part of this agreement as if attached hereto. *These documents can be viewed at* http://www.ols.dgs.ca.gov/Standard+Language/default.htm

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

CONTRACTOR

CONTRACTOR'S NAME *(if other than an individual, state whether a corporation, partnership, etc.)*
The Regents of the University of California

BY *(Authorized Signature)* Kathleen P Nolan
DATE SIGNED *(Do not type)* 3-7-11

PRINTED NAME AND TITLE OF PERSON SIGNING
KATHLEEN P. NOLAN, J.D.
Associate Director, Sponsored Programs

ADDRESS
Office of Research, Sponsored Programs
1850 Research park Drive, Suite 300, Davis, CA 95618

STATE OF CALIFORNIA

AGENCY NAME
Department of Pesticide Regulation

BY *(Authorized Signature)*
DATE SIGNED *(Do not type)* 3/11/11

PRINTED NAME AND TITLE OF PERSON SIGNING

ADDRESS
1001 I Street, Sacramento, CA 95814

California Department of General Services Use Only

APPROVED
APR - 7 2011
DEPT OF GENERAL SERVICES

☐ Exempt per:

Richard L. Goldberg

EXHIBIT A
STANDARD AGREEMENT

SCOPE OF WORK

1. The Regents of the University of California is hereinafter referred to as UC Davis or Contractor

2. This Agreement will commence on the start date March 1, 2011 as presented herein or upon final approval by the State, whichever is later and no work shall begin before that time. This Agreement is of no effect unless approved by the State. Contractor shall not receive payment for work performed prior to approval of the Agreement and before receipt of notice to proceed by the Contract Manager. This Agreement shall expire on June 30, 2013. The services shall be provided during normal working hours.

3. The Project Representatives during the term of this Agreement will be:

A. All official communications, except invoices, from the Contractor to DPR shall be directed to the attention of the DPR Contract Manager, Dr. Robert Budd, at:

Department of Pesticide Regulation
Environmental Monitoring Branch, MS 3B
1001 I Street
P.O. Box 4015
Sacramento, CA 95812-4015

Phone (916) 445-2505 Fax (916) 324-4088
E-mail: rbudd@cdpr.ca.gov

B. All invoices from the Contractor to DPR shall be directed to:

Department of Pesticide Regulation
Attn: Accounts Payable
P.O. Box 4015, MS 4A
Sacramento, CA 95812-4015

C. All programmatic communications from DPR to the Contractor shall be directed to the attention of Dr. Ron Tjeerdema:

Dr. Ron Tjeerdema
Department of Environmental Toxicology
One Shields Ave
UC Davis, CA 95616

Phone: 530-754-5192 Fax: 530-752-3394

Email: rstjeerdema@ucdavis.edu

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D. All administrative communications, except payments, from DPR to the Contractor shall be directed to:

Kathleen P. Nolan, J.D.
Associate Director
Office of Research, Sponsored Programs
1850 Research Park Drive, Suite 300
Davis, CA 95618

Phone: 530-754-7700 FAX: 530-754-8229

Email Address: knolan@ucdavis.edu

E. All payments from DPR to the Contractor shall be directed to:

Cashier's Office
P.O. Box 989062
West Sacramento, CA 95798-9062

F. The Project Representatives during the term of this Agreement may be changed by mutual written agreement without the necessity of formal amendment to this Agreement.

4. Background and Goals

Interest in evaluating urban runoff as a source of pesticide loading to surrounding waterways has increased in recent years. Although the total amount is unknown due to unreported homeowner use, it has been estimated that millions of pounds of urban pesticides are applied annually. Pyrethroids, fipronil (and degradates), carbamate and organophosphorous insecticides, some fungicides, and various herbicides are frequently found in urban surface waters. Most often several different pesticides are found in surface waters simultaneously, and these combinations may have a synergetic toxic effect to aquatic organisms. In California, during the dry summer and early fall months, urban surface waters are augmented with water from numerous sources, as lawn and landscape irrigation, washing of cars, hosing down of hardscape surfaces, etc. All of these sources will potentially carry pesticides. Pesticide movement from urban landscapes increases dramatically during rain events. County and city regulatory agencies are increasingly interested in finding cost effective measures to mitigate contaminants in runoff from urban sources. In-stream constructed wetlands have shown potential as a best management practice (BMP) to help reduce downstream pesticide concentrations. The objectives of the monitoring portion of this work are three-fold: 1) to determine pesticide concentrations in water and sediments from storm drain outflows in representative urban areas located in southern California during both dryflow and rain

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events; 2) to determine the mitigation effects of an urban wetland built within the Wood Creek Watershed on reducing pesticide inputs into urban creek receiving waters during dryflow and rain events; and 3) monitor downstream transport of pyrethroid pesticides bound to sediments within the watershed during various flow conditions.

Enzyme-linked immunosorbent assay (ELISA), is a biochemical technique used for detecting specific compound(s) in environmental and biological samples. Compared to conventional analytical methods such as gas chromatography (GC), high pressure liquid chromatography (HPLC) and mass spectroscopy, ELISA is considered a more rapid, cost-effective, and less labor-intensive alternative for analysis of pesticides in large numbers of environmental samples. However, ELISA is also prone to matrix effects – either due to the presence of cross-reactants or nonspecific interferences. The objectives of this study are: 1) to validate commercial ELISA pesticide kits for sensitivity, precision, accuracy, matrix effects, and selectivity; 2) to develop analytical procedures by applying validated ELISA kits to ambient water and sediment samples in agriculture and urban pesticide mitigation projects.

Aquatic life benchmarks, developed for baseline risk assessments, are estimates of the concentrations below which pesticides are not expected to harm aquatic life. Comparing a measured concentration of a pesticide in water with an aquatic life benchmark can be helpful in interpreting monitoring data, and to identify and prioritize sites and pesticides that may require further investigation. Development of aquatic life benchmarks is a long term goal of United States Environmental Protection Agency (EPA), Office of Pesticide Programs and the California Department of Pesticide Regulation (CDPR / DPR). The objective of this project is to develop a national database aquatic benchmarks based on the EPA's most recent pesticide risk assessments.

5. Work to Be Performed

Task 1. Monitoring and Mitigation of Pesticide Runoff

- Prepare monitoring equipment and supplies at DPR's West Sacramento, Calif. facilities at 3971 Commerce Drive, Suite D, West Sacramento, CA 95691.
- Collect water samples, either with the use of automated sampling equipment or through grab sample collection, during dryflow and rainstorm sampling events in northern and southern California. May include overnight travel (up to 10 nights lodging per year) and up to 12 days of overtime pay (per year). Water samples will be collected for chemical analysis and aquatic invertebrate toxicity testing.
- During all sampling events collect water quality parameters such as pH, DO, water temperature, EC, and flow data.
- Collect sediment samples for chemical analysis and aquatic invertebrate toxicity testing.

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- Deliver sediment and water samples to DPR's West Sacramento, CA facilities for chemical analysis and to UCD ATL (University of California, Aquatic Toxicity Lab) for aquatic invertebrate testing.

Task 2. Data Entry and Analysis.

- Conduct total organic carbon and total suspended sediment analysis at DPR's West Sacramento facilities.
- Enter monitoring data collected from automated sampling equipment or from grab samples into the existing DPR Surface Water's ACCESS Urban Database. Data includes (but not limited to) information collected on field data sheets, analytical data, and QA/QC checks of the data.
- Perform data summary, data analysis, and report writing, including summarizing and analyzing monitoring and toxicity data and writing of papers relevant to the mission of DPR.
- Enter new data and keep current the California portion of the existing EPA's Pesticides of Interest Tracking System (POINTS) database.
- Enter values into DPR's existing pesticide physiochemical, toxicological and use database.
- Complete environmental fate (E-fate) papers of pesticides of ecological concern.

Task 3. Development of aquatic life benchmarks

- Review U.S. EPA's environmental risk assessment for pesticides.
- Extract relevant acute and chronic toxicity data from risk assessment for aquatic benchmark calculation based on established procedures.
- Enter calculated benchmarks and associated information into existing Excel™ spreadsheets formatted for upload into EPA's existing aquatic life benchmark database.
- Review aquatic life benchmark datasheets for quality assurance.

Task 4. Validation of ELISA commercial kits for Pesticides in Water and Sediment

- Perform ELISA based on manufactory instructions on spiked and environmental samples.

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- Develop extraction procedures coupled with validated ELISA kits for ambient water and sediment samples.
- Provide report to DPR on ELISA result and extraction procedures.

6. Project Timeline

	2010-11				2011-12				2012-13			
Activities	Winter	Spring	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer	
1. Monitoring & Mitigation	X	X	X	X	X	X	X	X	X	X		
2. Data entry & Analysis	X	X	X	X	X	X	X	X	X	X		
3. Environment Fate, Benchmark, POINTS		X	X	X	X	X	X	X	X	X		
4. ELISA Validation			X	X	X	X	X	X	X	X		

EXHIBIT B
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BUDGET DETAIL AND PAYMENT PROVISIONS

1. Invoicing

A. For services performed according to the attached Scope of Work and the terms of this Agreement and approved by the Contract Manager and upon receipt and approval of the invoices, DPR agrees to compensate Contractor, in arrears, for actual allowable costs incurred as specified herein and in accordance with the rates specified herein or attached hereto. Incomplete or disputed invoices shall be returned to Contractor, unpaid, for correction.

B. Invoices shall include the Agreement Number and shall be submitted in triplicate, quarterly in arrears, to:

Department of Pesticide Regulation
Attn: Accounts Payable
P.O. Box 4015, MS-4A
Sacramento, CA 95812-4015

2. Budget Contingency Clause

A. It is mutually agreed that if the Budget Act of the current year and/or any subsequent years covered under this Agreement does not appropriate sufficient funds for the program, this Agreement shall be of no further force and effect. In this event, DPR shall have no liability to pay any funds whatsoever to Contractor or to furnish any other considerations under this Agreement and Contractor shall not be obligated to perform any provisions of this Agreement.

B. If funding for any fiscal year is reduced or deleted by the Budget Act for purposes of this program, DPR shall have the option to either cancel this Agreement with no liability occurring to DPR, or offer an Agreement Amendment to Contractor to reflect the reduced amount.

3. Payment

A. Costs for this Agreement shall be computed in accordance with State Administrative Manual (SAM) Sections 8752 and 8752.1.

B. Nothing herein contained shall preclude advance payments pursuant to Article 1, Chapter 3, Part 1, Division 3, Title 2 of the California Government Code, Sections 11256 and 11257.

C. Transportation and subsistence costs shall not exceed rates authorized to be paid UC system non-represented employees traveling within California.

D. Contractor will be reimbursed for direct costs, other than salary costs, that are identified in the Contractor's rates.

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E. Contractor will bill in arrears for costs incurred during the billing period. If applicable, salary costs will be itemized and billed by position. Documentation supporting specific salary costs will be presented if requested by DPR. Non-wage costs will be billed, in summary, according to general expense categories. A detailed report of transactions will support the billing. Individual expenditures exceeding $500.00 will be supported by a photocopy of the original documentation. Documentation in support of expenditures less than $500.00 will be presented if requested by DPR.

F. Contractor shall not commence performance of work or services until this Contract has been approved by the State. No payment will be made prior to approval nor for any work performed prior to approval of this Agreement.

G. Ten percent (10%) of the total amount of the Agreement shall be withheld by DPR until the completion of services performed according to the attached Scope of Work and the terms of this Agreement.

4. Rates

Rates for these services are as follows:

	Total Amount
1. Salaries & Wages	$169,646
2. Benefits①	$39,474
3. Travel②	$3,000
4. Training③	$1,200
5. Contractual	$00
6. Minor Equipment④ or Equipment	$500
7. Indirect Cost⑤ 15%	$32,073
Total Amount	$245,893

①Benefits include: Worker's Compensation and other benefits appropriate for title
(NOTE: Student Interns are non-personnel employees with no benefits and shall be excluded from the percentage calculation of this line item.)
②Travel includes: Invoice for payments on travel shall be based on current University of California rates and guidelines
③Training for interface with databases.
④Minor Equipment: line item does not include any equipment with a unit acquisition of $5,000 or more. If over 5,000 then line item must be identified as "Equipment" line time and Exhibit E will require special language.
⑤Indirect Cost: 10 - 25% indirect cost rate includes: depreciation of buildings and equipment, utility consumption, operations and maintenance costs, administrative services provided at the departmental and central level, and library costs.

EXHIBIT B
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Table II - Details Personnel (2010-2011)

Personnel	Monthly Salary	Number of Months	Percentage of Time	Cost
Principal Investigator	$12,921	0	50%	$00
Postdoctoral Researcher	$3,000	0	100%	$00
Junior Specialist	$2,806	5	100%	$14,030
Graduate Student Researcher	$4,205	3	48%	$6,054
Graduate Fee Remission	$1,592	3	100%	$4,776
Total Personnel				$24,860
Benefits				
Principal Investigator (22%)	$2,843	0	50%	$00
Postdoctoral Researcher (25%)	$750	0	100%	$00
Junior Specialist (25%)	$702	5	100%	$3,510
Graduate Student Researcher (3%)	$126	3	48%	$182
Total Benefits				$3,692
Total Personnel and Benefits				**$28,552**

Table II - Details Personnel (2011-2012)

Personnel	Monthly Salary	Number of Months	Percentage Of Time	Cost
Principal Investigator	$13,976	1	50%	$6,988
Postdoctoral Researcher	$3,145	12	100%	$37,740
Junior Specialist	$2,806	12	100%	$33,672
Graduate Student Researcher	$4,205	0	48%	$00
Graduate Fee Remission	$1,592	0	100%	$00
Total Personnel				$78,400
Benefits				
Principal Investigator (22%)	$3,075	1	50%	$1,538
Postdoctoral Researcher (25%)	$786	12	100%	$9,432
Junior Specialist (25%)	$702	12	100%	$8,424
Graduate Student Researcher (3%)	$126	0	48%	$00
Total Benefits				$19,394
Total Personnel and Benefits				**$97,794**

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Table II - Details Personnel (2012-2013)

Personnel	Monthly Salary	Number of Months	Percentage of Time	Total Amount
Principal Investigator	$13,976	1	50%	$6,988
Postdoctoral Researcher	$3,313	12	100%	$39,756
Junior Specialist	$2,806	7	100%	$19,642
Graduate Student Researcher	$4,205	0	48%	$00
Graduate Fee Remission	$1,592	0	100%	$00
Total Personnel				$66,386
Benefits				
Principal Investigator (22%)	$3,075	1	50%	$1,538
Postdoctoral Researcher (25%)	$828	12	100%	$9,936
Junior Specialist (25%)	$702	7	100%	$4,914
Graduate Student Researcher (3%)	$126	0	48%	$00
Total Benefits				$16,388
Total Personnel and Benefits				**$82,774**

5. Cost Limitation

A. The total amount of this Agreement shall not exceed $245,893.00.

B. It is understood and agreed that this total is an estimate and that DPR will pay for only those services actually rendered as authorized by the DPR Contract Manager or his/her designee.

EXHIBIT D
Standard Agreement

SPECIAL TERMS AND CONDITIONS

1. Termination

A. Either Party reserves the right to terminate this agreement without cause upon thirty (30) days written notice to the other Party, or immediately in the event of a material breach. In the event of termination, Contractor shall be paid for all allowable costs incurred up to the date of termination, including any non-cancelable obligations.

B. In the event that the total Agreement amount is expended prior to the expiration date, DPR may, at its sole discretion, terminate this Agreement with 30 days notice to contractor.

2. Subcontracting

Contractor shall perform the work contemplated with resources available within its own organization and no portion of the work shall be subcontracted.

3. Dispute Resolution

A. DPR reserves the right to issue an order to stop work in the event that a dispute should arise, or in the event that the DPR gives the performing agency a notice that this Agreement will be terminated. If DPR exercises this right, the stop-work order will be in effect until the dispute has been resolved or this Agreement has been terminated.

B. Any dispute concerning a question of fact arising under the terms of this Agreement which is not disposed of within a reasonable period of time by agency employees normally responsible for the administration of this agreement, shall be brought to the attention of the Executive Officer or designated representative of each agency for joint resolution.

C. The Contractor shall continue to perform all its responsibilities under this agreement during any dispute until notified to stop work or expiration of this Agreement.

4. Harassment Free Workplace

The Department of Pesticide Regulation (DPR) is committed to providing a safe, secure environment, free from sexual misconduct. It is policy of the Department that employees have the right to work in an environment that is free from all forms of discrimination, including sexual harassment. This policy specifically speaks to freedom from a sexually harassing act that results in the creation of an intimidating, hostile or offensive work environment or that otherwise interferes with an individual's employment or work performance. As a Contractor with DPR, you and your staff are expected to comply with a standard of conduct that is respectful and courteous to DPR employees and all other persons contacted during the performance of this Agreement. Sexual harassment is unacceptable, will not be tolerated; and may be cause for prohibiting some or all of the Contractor's staff from performing work under this Agreement.

EXHIBIT E
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1. Contractor Evaluation

The Contractor is hereby notified that its performance under this Agreement may be evaluated within thirty (30) calendar days following the Expiration of this Agreement. The evaluation may include statements on the adequacy of the service or the product, whether the service was satisfactory, whether the service or the product was provided or completed within the time limitations, reasons for time or cost overruns, whether the product is operational or being utilized by the State, and/or the State plans for implementation, and the State's general impression as to the competency of the Contractor and its staff. The evaluation shall be filed in the State's official Contractor Evaluation File.

2. Consulting Services

A. The Contractor is hereby advised of its duties, obligations and rights under Public Contract Code § 10335.5.

B. The Contractor's key personnel assigned to perform work under this Agreement and their level of responsibility shall be mutually acceptable to the State and the Contractor.

EXHIBIT F
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Ronald Scott Tjeerdema

Professional Preparation

Humboldt State University, Arcata, CA	Wildlife Management	BS 1980
Humboldt State University, Arcata, CA	Natural Resource Planning & Interpretation	BS 1980
University of California, Santa Barbara	Pharmacology & Toxicology	MA 1983
University of California, Davis	Pharmacology & Toxicology	PhD 1987

Appointments

2003–present	Chair, Department of Environmental Toxicology, UC Davis
1999–present	Professor, Department of Environmental Toxicology, UC Davis
1999–present	Environmental Chemist, Agricultural Experiment Station, UC Davis
1998–99	Professor, Department of Chemistry & Biochemistry, UC Santa Cruz
1994–98	Associate Professor, Department of Chemistry & Biochemistry, UC Santa Cruz
1992–94	Assistant Professor, Department of Chemistry & Biochemistry, UC Santa Cruz

Professional Certification

1994–present	Diplomate in General Toxicology, American Board of Toxicology (DABT)

Peer-Reviewed Publications

1. **Tjeerdema, R. S.,** 1987. The pyrolysis of cannabinoids. *Rev. Environ. Contam. Toxicol.* 99, 61–81 (invited).
2. **Tjeerdema, R. S.** and D. G. Crosby, 1987. The biotransformation of molinate (Ordram) in the striped bass (*Morone saxatilis*). *Aquat. Toxicol.* 9, 305–317.
3. **Tjeerdema, R. S.** and R. S. Jacobs, 1987. Elimination of 2,4,5,2',4',5'-hexachlorobiphenyl by the purple sea urchin, *Strongylocentrotus purpuratus,* following single exposure. *Bull. Environ. Contam. Toxicol.* 38, 1029–1036.
4. **Tjeerdema, R. S.** and D. G. Crosby, 1988. Comparative biotransformation of molinate (Ordram) in the white sturgeon (*Acipenser transmontanus*) and common carp (*Cyprinus carpio*). *Xenobiotica* 18, 831–838.
5. **Tjeerdema, R. S.** and D. G. Crosby, 1988. Disposition, biotransformation, and detoxication of molinate (Ordram) in whole blood of the common carp (*Cyprinus carpio*). *Pestic. Biochem. Physiol.* 31, 24–35.
6. **Tjeerdema, R. S.,** G. E. Croston, L. M. Swall and M. Martin, 1989. *Petroleum Fate and Cleanup Agent Toxicology.* National Technical Information Service PB89-134589-AS, US Department of Commerce, Springfield, VA, 120 pp.
7. Croston, G. E. and **R. S. Tjeerdema,** 1990. Hydrolysis of a model surfactant as measured using acyl coenzyme A synthetase. *Toxicol. Environ. Chem.* 28, 245–256.
8. Singer, M. M., D. L. Smalheer and **R. S. Tjeerdema,** 1990. A simple continuous-flow toxicity test system for microscopic life stages of aquatic organisms. *Wat. Res.* 24, 899–903.
9. Singer, M. M., D. L. Smalheer, **R. S. Tjeerdema** and M. Martin, 1990. Toxicity of an oil dispersant to the early life stages of four California marine species. *Environ. Toxicol. Chem.* 9, 1387–1395.
10. **Tjeerdema, R. S.** and R. S. Jacobs, 1990. Partitioning of 2,4,5,2',4',5'-hexachlorobiphenyl between seawater and air. *Bull. Environ. Contam. Toxicol.* 44, 572–578.
11. **Tjeerdema, R. S.,** M. M. Singer, G. M. Scelfo, D. L. Smalheer, L. M. Swall, G. E. Croston, D. M. Fry and M. Martin, 1990. *The Toxicology of Oil Spill Cleanup Agents.* National Technical Information Service PB90-250267-AS, US Department of Commerce, Springfield, VA, 175 pp.
12. Scelfo, G. M. and **R. S. Tjeerdema,** 1991. A simple method for determination of Corexit 9527 in natural waters. *Mar. Environ. Res.* 31, 69–78.
13. Singer, M. M., D. L. Smalheer, **R. S. Tjeerdema** and M. Martin, 1991. Effects of spiked exposure to an oil dispersant on the early life stages of four marine species. *Environ. Toxicol. Chem.* 10, 1367–1374.
14. Swall, L. M. and **R. S. Tjeerdema,** 1991. Tissue distribution and temperature dependence of xenobiotic hydrolysis in the dungeness crab (*Cancer magister*). *Aquat. Toxicol.* 20, 1–11.

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15. **Tjeerdema, R. S.,** T. W.-M. Fan, R. M. Higashi and D. G. Crosby, 1991. Sublethal effects of pentachlorophenol in the abalone (*Haliotis rufescens*) as measured by in vivo ^{31}P NMR spectroscopy. *J. Biochem. Toxicol.* 6, 45–56.
16. **Tjeerdema, R. S.,** R. J. Kauten and D. G. Crosby, 1991. Interactive effects of pentachlorophenol and hypoxia in the abalone (*Haliotis rufescens*) as measured by in vivo ^{31}P NMR spectroscopy. *Aquat. Toxicol.* 21, 279–294.
17. **Tjeerdema, R. S.,** R. J. Kauten and D. G. Crosby, 1991. Sublethal effects of hypoxia in the abalone (*Haliotis rufescens*) as measured by in vivo ^{31}P NMR spectroscopy. *Comp. Biochem. Physiol.* 100B, 653–659.
18. **Tjeerdema, R. S.** and M. M. Singer, 1991. Closed flow-through aquatic toxicity testing and microscopic organisms: Not necessarily incompatible. *Mar. Pollut. Bull.* 22, 59–61.
19. **Tjeerdema, R. S.,** M. M. Singer and D. L. Smalheer, 1991. Continuous-flow toxicity tests using the microscopic life stages of various marine organisms. *Can. Tech. Rep. Fish. Aquat. Sci.* 1774, 348–354.
20. Singer, M. M., **R. S. Tjeerdema** and D. L. Smalheer, 1992. Evaluation of the toxicological effects of oil dispersants by modeled-exposure toxicity testing. *Can. Tech. Rep. Fish. Aquat. Sci.* 1863, 175–182.
21. Smalheer, D. L., S. Jacobson and **R. S. Tjeerdema,** 1992. *Oil Spill Cleanup Agent Efficacy, Toxicity, and Biodegradation.* National Technical Information Service PB92-183623-AS, US Department of Commerce, Springfield, VA, 51 pp.
22. **Tjeerdema, R. S.** and D. G. Crosby, 1992. Disposition and biotransformation of pentachlorophenol in the red abalone (*Haliotis rufescens*). *Xenobiotica* 22, 681–690.
23. Benner, D. B. and **R. S. Tjeerdema,** 1993. Toxicokinetics and biotransformation of pentachlorophenol in the topsmelt (*Atherinops affinis*). *J. Biochem. Toxicol.* 8, 111–117.
24. Gates, V. L. and **R. S. Tjeerdema,** 1993. Disposition and biotransformation of pentachlorophenol in the striped bass (*Morone saxatilis*). *Pestic. Biochem. Physiol.* 46, 161–170.
25. Shofer, S. L. and **R. S. Tjeerdema,** 1993. Comparative disposition and biotransformation of pentachlorophenol in the oyster (*Crassostrea gigas*) and abalone (*Haliotis fulgens*). *Pestic. Biochem. Physiol.* 46, 85–95.
26. Singer, M. M., S. George, D. Benner, S. Jacobson, **R. S. Tjeerdema** and M. L. Sowby, 1993. Comparative toxicity of two oil dispersants to the early life stages of two marine species. *Environ. Toxicol. Chem.* 12, 1855–1863.
27. Singer, M. M. and **R. S. Tjeerdema,** 1993. Fate and effects of the surfactant sodium dodecyl sulfate. *Rev. Environ. Contam. Toxicol.* 133, 95–149 (invited).
28. **Tjeerdema, R. S.,** R. J. Kauten and D. G. Crosby, 1993. Interactive effects of pentachlorophenol and temperature in the abalone (*Haliotis rufescens*) as measured by in vivo ^{31}P NMR spectroscopy. *Aquat. Toxicol.* 26, 117–132.
29. Singer, M. M., S. George, S. Jacobson, I. Lee, **R. S. Tjeerdema** and M. L. Sowby, 1994. Comparative effects of oil dispersants to the early life stages of topsmelt (*Atherinops affinis*) and kelp (*Macrocystis pyrifera*). *Environ. Toxicol. Chem.* 13, 649–655.
30. Singer, M. M., S. George, S. Jacobson, I. Lee, **R. S. Tjeerdema** and M. L. Sowby, 1994. Comparative toxicity of Corexit 7664 to the early life stages of four marine species. *Arch. Environ. Contam. Toxicol.* 27, 130–136.
31. Singer, M. M. and **R. S. Tjeerdema,** 1994. *Dispersed Oil and Dispersant Fate and Effects Research: California Program Results for 1993–1994.* Marine Spill Response Corporation, Research and Development Program, Technical Report Series 94-010, Washington, DC, 46 pp.
32. **Tjeerdema, R. S.,** K. L. Lukrich and E. M. Stevens, 1994. Toxicokinetics and biotransformation of pentachlorophenol in the sea urchin (*Strongylocentrotus purpuratus*). *Xenobiotica* 24, 749–757.
33. Walz, P. M., D. L. Garrison, W. M. Graham, M. A. Cattey, **R. S. Tjeerdema** and M. W. Silver, 1994. Domoic acid–producing diatom blooms in Monterey Bay, California: 1991–1993. *Nat. Toxins* 2, 271–279.
34. Anderson, B. S., J. W. Hunt, W. J. Piekarski, B. M. Phillips, M. A. Englund, **R. S. Tjeerdema** and J. D. Goetzl, 1995. Influence of salinity on copper and azide toxicity to larval topsmelt *Atherinops affinis* (Ayres). *Arch. Environ. Contam. Toxicol.* 29, 366–372.
35. Ghilarducci, D. P. and **R. S. Tjeerdema,** 1995. Fate and effects of acrolein. *Rev. Environ. Contam. Toxicol.* 144, 95–146 (invited).

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36. Hunter, C. L., M. D. Stephenson, **R. S. Tjeerdema,** D. G. Crosby, G. S. Ichikawa, J. D. Goetzl, K. S. Paulson, D. B. Crane, M. Martin and J. W. Newman, 1995. Contaminants in oysters in Kaneohe Bay, Hawaii. *Mar. Pollut. Bull.* 30, 646–654.
37. Seaton, C. L. and **R. S. Tjeerdema,** 1995. Comparative disposition and biotransformation of naphthalene in fresh- and seawater-acclimated striped bass (*Morone saxatilis*). *Xenobiotica* 25, 553–562.
38. Singer, M. M., D. Aurand, J.Clark, G. Sergy, M. L. Sowby and **R. S. Tjeerdema,** 1995. CROSERF: Toward a standardization of oil spill cleanup agent ecological effects research. In: *Eighteenth Arctic Marine Oilspill Program.* Environment Canada, Ottawa, Ontario, pp. 1263–1270.
39. Singer, M. M., S. George, S. Jacobson, I. Lee, L. L. Weetman, **R. S. Tjeerdema** and M. L. Sowby, 1995. Acute toxicity of the oil dispersant Corexit 9554 to marine organisms. *Ecotoxicol. Environ. Saf.* 32, 81–86.
40. Singer, M. M., S. George and **R. S. Tjeerdema,** 1995. Relationship of some physical properties of oil dispersants and their toxicity to marine organisms. *Arch. Environ. Contam. Toxicol.* 29, 33–38.
41. Singer, M. M. and **R. S. Tjeerdema,** 1995. *Dispersed Oil and Dispersant Fate and Effects Research: California Program Results for 1994–1995.* Marine Spill Response Corporation, Research and Development Program, Technical Report Series 95-012, Washington, DC, 36 pp.
42. Stephenson, M. D., M. Martin and **R. S. Tjeerdema,** 1995. Long-term trends in DDT, polychlorinated biphenyls, and chlordane in California mussels. *Arch. Environ. Contam. Toxicol.* 28, 443–450.
43. Weetman, L. L., I. Lee, M. M. Singer, S. George, S. Jacobson, **R. S. Tjeerdema** and M. L. Sowby, 1995. Evaluation and intercomparison of dispersant toxicity using a standardized, modeled-exposure approach. In: *1995 International Oil Spill Conference.* American Petroleum Institute, Washington, DC, pp. 830–832.
44. Williamson, K. C., S. L. Shofer and **R. S. Tjeerdema,** 1995. Toxicokinetics and biotransformation of *p*-nitrophenol in the black turban snail (*Tegula funebralis*). *Aquat. Toxicol.* 33, 113–123.
45. Younghans-Haug, C. O., M. F. Wolfe, **R. S. Tjeerdema** and M. L. Sowby, 1995. Experimental design to quantify chemically-dispersed crude bioavailability to phytoplankton. In: *1995 International Oil Spill Conference.* American Petroleum Institute, Washington, DC, pp. 858–859.
46. Seaton, C. L. and **R. S. Tjeerdema,** 1996. Tissue disposition and biotransformation of naphthalene in striped bass (*Morone saxatilis*). *Mar. Environ. Res.* 42, 345–348.
47. Shofer, S. L., J. A. Willis and **R. S. Tjeerdema,** 1996. Sublethal effects of pentachlorophenol and hypoxia on rates of arginine kinase flux in red abalone (*Haliotis rufescens*) as measured by ^{31}P magnetization saturation transfer NMR. *Mar. Environ. Res.* 42, 363–367.
48. Singer, M. M., S. George, S. Jacobson, I. Lee, L. L. Weetman, **R. S. Tjeerdema** and M. L. Sowby, 1996. Comparison of acute aquatic effects of the oil dispersant Corexit 9500 with those of other Corexit series dispersants. *Ecotoxicol. Environ. Saf.* 35, 183–189.
49. Singer, M. M., S. George, S. Jacobson, L. L. Weetman, G. J. Blondina, **R. S. Tjeerdema,** D. Aurand and M. L. Sowby, 1996. Evaluation of the aquatic effects of crude oil, dispersants, and their mixtures. In: *Nineteenth Arctic Marine Oilspill Program.* Environment Canada, Ottawa, Ontario, pp. 497–514.
50. Singer, M. M. and **R. S. Tjeerdema,** 1996. Effects of the water accomodated fraction of crude oil and dispersed oil on the early life stages of two marine species. In: *US Coast Guard 1994 Oil Pollution Research - Part II.* National Technical Information Service CG-D-27-96 (II), US Department of Commerce, Springfield, VA, pp. 223–276.
51. **Tjeerdema, R. S.,** W. S. Smith, L. B. Martello, R. J. Kauten and D. G. Crosby, 1996. Interactions of chemical and natural stresses in the abalone (*Haliotis rufescens*) as measured by surface-probe localized ^{31}P NMR. *Mar. Environ. Res.* 42, 369–374.
52. Wolfe, M. F. and **R. S. Tjeerdema,** 1996. Influence of dispersants on petroleum bioavailability within a marine food chain. In: *US Coast Guard 1994 Oil Pollution Research - Part II.* National Technical Information Service CG-D-27-96 (II), US Department of Commerce, Springfield, VA, pp. 277–320.

EXHIBIT F
Standard Agreement

53. Blondina, G. J., M. L. Sowby, M. T. Ouano, M. M. Singer and **R. S. Tjeerdema,** 1997. Comparative efficacy of two Corexit dispersants as measured using California's modified swirling flask test. In: *Twentieth Arctic Marine Oilspill Program.* Environment Canada, Ottawa, Ontario, pp. 561–573.
54. Gala, W. R., G. A. Rausina, M. J. Ammann, E. A. Harvey, P. Y. O'Brien, J. P. Suzuki, L. A. Young, J. W. Newman, M. M. Singer and **R. S. Tjeerdema,** 1997. Oil-specific properties summary sheets for spill response. In: *1997 International Oil Spill Conference.* American Petroleum Institute, Washington, DC, pp. 929–930.
55. Singer, M. M., S. George, S. Jacobson, L. L. Weetman, G. J. Blondina, **R. S. Tjeerdema,** D. Aurand and M. L. Sowby, 1997. Acute aquatic effects of chemically dispersed and undispersed crude oil. In: *1997 International Oil Spill Conference.* American Petroleum Institute, Washington, DC, pp. 1020–1021.
56. Shofer, S. L., J. A. Willis and **R. S. Tjeerdema,** 1997. Effects of hypoxia and toxicant exposure on arginine kinase function as measured by ^{31}P-NMR magnetization transfer in living abalone. *Comp. Biochem. Physiol.* 117C, 283–289.
57. Shofer, S. L., J. A. Willis and **R. S. Tjeerdema,** 1997. Effects of hypoxia and toxicant exposure on phosphoarginine, intracellular pH, and free Mg^{2+} in abalone as measured by ^{31}P NMR. *Comp. Biochem. Physiol.* 118A, 1183–1191.
58. Stephenson, M., G. Ichikawa, J. Goetzl, K. Paulson, M. Pranger, R. Fairey, S. Lamerdin, **R. Tjeerdema,** J. Newman, J. Becker and M. Stoelting, 1997. Distribution and concentration of selected contaminants in Monterey Bay sediments. In: *Southern Monterey Bay Continental Shelf Investigations: Former Fort Ord Restricted Zone.* US Department of the Interior, US Geological Survey, Publication 97-450, Washington, DC, pp. 1–25.
59. Wolfe, M. F., G. J. B. Schwartz, S. Singaram., E. E. Mielbrecht, **R. S. Tjeerdema** and M. L. Sowby, 1997. Influence of dispersants on trophic transfer of petroleum in a marine food chain. In: *Twentieth Arctic Marine Oilspill Program.* Environment Canada, Ottawa, Ontario, pp. 1215–1226.
60. Wolfe, M. F., G. J. B. Schwartz, S. Singaram., E. E. Mielbrecht, **R. S. Tjeerdema** and M. L. Sowby, 1997. Influence of dispersants on trophic transfer of petroleum hydrocarbons in a marine food chain. *Spill Sci. Technol. Bull.* 3/4, 255–258.
61. Anderson, B. S., J. W. Hunt, B. M. Phillips, S. Tudor, R. Fairey, J. Newman, H. M. Puckett, M. Stephenson, E. R. Long and **R. S. Tjeerdema,** 1998. Comparison of marine sediment toxicity test protocols for the amphipod *Rhepoxynius abronius* and the polychaete worm *Nereis (Neanthes) arenaceodentata. Environ. Toxicol. Chem.* 17, 859–866.
62. Martello, L. B., **R. S. Tjeerdema,** W. S. Smith, R. J. Kauten and D. G. Crosby, 1998. Influence of salinity on the actions of pentachlorophenol in *Haliotis* as measured by in vivo ^{31}P NMR spectroscopy. *Aquat. Toxicol.* 41, 229–250.
63. Shofer, S. L. and **R. S. Tjeerdema,** 1998. Effects of hypoxia and toxicant exposure on adenylate energy charge and cytosolic ADP concentrations in abalone. *Comp. Biochem. Physiol.* 119C, 51–57.
64. Singer, M. M., S. George, S. Jacobson, I. Lee, L. L. Weetman, G. J. Blondina, **R. S. Tjeerdema,** D. Aurand and M. L. Sowby, 1998. Effects of dispersant treatment on the acute aquatic toxicity of petroleum hydrocarbons. *Arch. Environ. Contam. Toxicol.* 34, 177–187.
65. **Tjeerdema, R. S.,** 1998. Using surface probe localized ^{31}P NMR spectroscopy to understand sublethal environmental actions. In: *Multiple Stresses in Ecosystems* (J. J. Cech, B. W. Wilson, and D. G. Crosby, eds.), Lewis Publishers, Chelsea, MI, pp. 155–180 (invited; ISBN 1-56670-309-3).
66. Blondina, G. J., M. T. Ouano, M. S. Singer, **R. S. Tjeerdema** and M. L. Sowby, 1998. A modified swirling flask efficacy test for oil spill dispersants. *Spill Sci. Technol. Bull.* 4, 177–185.
67. Fairey, R., C. Roberts, M. Jacobi, S. Lamerdin, R. Clark, J. Downing, E. Long, J. Hunt, B. S. Anderson, J. Newman, **R. Tjeerdema,** M. Stephenson and C. Wilson, 1998. An assessment of sediment toxicity and chemical concentrations in the San Diego Bay region. *Environ. Toxicol. Chem.* 17, 1570–1581.
68. Hankermeyer, C. R. and **R. S. Tjeerdema,** 1998. Polyhydroxybutyrate: Plastic made and degraded by microorganisms. *Rev. Environ. Contam. Toxicol.* 159, 1–24 (invited).

EXHIBIT F
Standard Agreement

69. Newman, J. W., J. S. Becker, G. J. Blondina and **R. S. Tjeerdema,** 1998. Quantitation of Aroclors using congener-specific results. *Environ. Toxicol. Chem.,* 17, 2159–2167.
70. Singer, M. M. and **R. S. Tjeerdema,** 1998. *Dispersed Oil and Dispersant Fate and Effects Research: California Program Results for 1995–1996.* Marine Spill Response Corporation, Research and Development Program, Technical Report Series, Washington, DC.
71. Singer, M. M., S. Jacobson, M. Hodgins, **R. S. Tjeerdema** and M. L. Sowby, 1999. Acute toxicological consequences of oil dispersal to marine organisms. In: *1999 International Oil Spill Conference.* American Petroleum Institute, Washington, DC, pp. 1–3.
72. **Tjeerdema, R. S.,** M. M. Singer, M. F. Wolfe, G. J. Blondina and M. L. Sowby, 1999. Deriving fate and effects information to assess petroleum risk. In: *Dispersant Application in Alaska* (K. Trudel, ed.), Prince William Sound Oil Spill Recovery Institute, Cordova, AK, pp. 249–258 (invited).
73. Wheelock, C. E., M. F. Wolfe, H. E. Olsen and **R. S. Tjeerdema,** 1998. Characterization of HSP 60 in the rotifer, *Brachionus plicatilis,* exposed to multiple environmental contaminants. *Mar. Environ. Res.* 46, 453–456.
74. Wheelock, C. E., M. F. Wolfe, H. E. Olsen and **R. S. Tjeerdema,** 1999. Induction of HSP 60 in *Brachionus plicatilis* exposed to dispersed and undispersed crude oil preparations at two salinities. *Arch. Environ. Contam. Toxicol.* 36, 281–287.
75. Wolfe, M. F., J. A. Schlosser, G. J. B. Schwartz, S. Singaram, E. E. Mielbrecht, **R. S. Tjeerdema** and M. L. Sowby, 1998. Influence of dispersants on the bioavailability and trophic transfer of petroleum hydrocarbons to primary levels of a marine food chain. *Aquat. Toxicol.* 42, 211–227.
76. Wolfe, M. F., H. E. Olsen, K. A. Gasuad and **R. S. Tjeerdema,** 1999. Induced tolerance in *Isochrysis galbana* exposed to sublethal preparations of dispersant and Prudhoe Bay crude oil. *Mar. Environ. Res.* 47, 473–489.
77. Wolfe, M. F., G. J. B. Schwartz, S. Singaram, E. E. Mielbrecht, **R. S. Tjeerdema** and M. L. Sowby, 1998. Effects of salinity and temperature on the bioavailability of dispersed petroleum hydrocarbons to the golden brown algae, *Isochrysis galbana. Arch. Environ. Contam. Toxicol.* 35, 268–273.
78. Wolfe, M. F., G. J. B. Schwartz, S. Singaram, **R. S. Tjeerdema** and M. L. Sowby, 1998. Influence of dispersants on the bioavailability of petroleum hydrocarbons to golden brown algae, *Isochrysis galbana. Arch. Environ. Contam. Toxicol.* 35, 274–280.
79. Blondina, G. J., M. M. Singer, I. Lee, M. T. Ouano, M. Hodgins, **R. S. Tjeerdema** and M. L. Sowby, 1999. Influence of water salinity on petroleum accommodation by surfactant-based dispersants. *Spill Sci. Technol. Bull.* 5, 127–134.
80. Hunt, J. W., B. S. Anderson, B. M. Phillips, **R. S. Tjeerdema,** H. M. Puckett and V. deVlaming, 1999. Patterns of aquatic toxicity in an agriculturally dominated coastal watershed in California. *Agric. Ecosyst. Environ.* 75, 75–91.
81. Lefebvre, K. A., C. L. Powell, G. J. Doucette, J. B. Silver, P. E. Miller, M. P. Hughes, S. Singaram, M. W. Silver and **R. S. Tjeerdema,** 1999. Detection of domoic acid in northern anchovies and California sea lions associated with an unusual mortality event. *Nat. Toxins.* 2(3), 1–7.
82. Wolfe, M. F., G. J. B. Schwartz, S. Singaram, E. E. Mielbrecht, **R. S. Tjeerdema** and M. L. Sowby, 1999. Influence of dispersants on the bioavailability and trophic transfer of phenanthrene to algae and rotifers. *Aquat. Toxicol.* 48, 13–24.
83. Anderson, B. S., J. W. Hunt, B. M. Phillips, M. Stoelting, J. Becker, R. Fairey, H. M. Puckett, M. Stephenson, **R. S. Tjeerdema** and M. Martin, 2000. Ecotoxicological change at a remediated superfund site in San Francisco Bay. *Environ. Toxicol. Chem.* 19, 879–887.
84. Larkin, D. and **R. S. Tjeerdema,** 2000. Fate and effects of diazinon. *Rev. Environ. Contam. Toxicol.* 166, 49–82 (invited).
85. Martello, L. B., C. Friedman and **R. S. Tjeerdema,** 2000. Combined effects of pentachlorophenol and salinity stress on phagocytic and chemotactic function in two species of abalone. *Aquat. Toxicol.* 49, 213–225.
86. Singer, M. M., D. Aurand, G. E. Bragin, J. R. Clark, G. M. Coehlo, M. L. Sowby and **R. S. Tjeerdema,** 2000. Standardization of preparation and quantitation of water-accomodated fractions of oil and their use in aquatic toxicity testing. *Mar. Pollut. Bull.* 40, 1007–1016.

EXHIBIT F
Standard Agreement

87. Stoelting, M. and **R. S. Tjeerdema,** 2000. In vitro glutathione-dependent biotransformation of chloro-2,4-dinitrobenzene in arterial and venous blood of the striped bass, *Morone saxatilis. Aquat. Toxicol.* 50, 177–187.
88. Martello, L. B. and **R. S. Tjeerdema,** 2001. Combined effects of pentachlorophenol and salinity stress on chemiluminescence activity in two species of abalone. *Aquat. Toxicol.* 51, 351–362.
89. Anderson, B. S., J. W. Hunt, B. M. Phillips, R. Fairey, C. A. Roberts, J. M. Oakden, H. M. Puckett, M. Stephenson, **R. S. Tjeerdema,** 2001. Sediment quality in Los Angeles Harbor: A triad assessment. *Environ. Toxicol. Chem.* 20, 359–370.
90. Anderson, B. S., J. W. Hunt, B. M. Phillips, R. Fairey, H. M. Puckett, M. Stephenson, K. Taberski, J. W. Newman and **R. S. Tjeerdema,** 2001. Influence of sample manipulation on contaminant flux and toxicity at the sediment-water interface. *Mar. Environ. Res.* 51, 191–211.
91. Hunt, J. W., B. S. Anderson, B. M. Phillips, J. Newman, **R. S. Tjeerdema,** R. Fairey, H. M. Puckett, M. Stephenson, R. W. Smith, C. J. Wilson and K. M. Taberski, 2001. Evaluation and use of sediment toxicity reference sites for statistical comparisons in regional assessments. *Environ. Toxicol. Chem.* 20, 1266–1275.
92. Hunt, J. W., B.S. Anderson, B. M. Phillips, **R. S. Tjeerdema,** K. M. Taberski, C. J. Wilson, H. M. Puckett, M. Stephenson, R. Fairey and J. Oakden, 2001. A large-scale categorization of sites in San Francisco Bay based on the sediment quality triad, toxicity identification evaluations, and gradient studies. *Environ. Toxicol. Chem.* 20, 1252–1265.
93. Wolfe, M. F., G. J. B. Schwartz, S. Singaram, E. E. Mielbrecht, **R. S. Tjeerdema** and M. L. Sowby, 2001. Influence of dispersants on the bioavailability and trophic transfer of petroleum hydrocarbons to larval topsmelt (*Atherinops affinis*). *Aquat. Toxicol.* 52, 49–60.
94. Singer, M. M., S. Jacobson, **R. S. Tjeerdema** and M. L. Sowby, 2001. Acute effects of fresh versus weathered oil to marine organisms: California findings. In: *2001 International Oil Spill Conference.* American Petroleum Institute, Washington, DC, pp. 1263–1268.
95. Singer, M. M., D. Aurand, G. Coelho, G. E. Bragin, J. R. Clark, S. Jacobson, M. L. Sowby and **R. S. Tjeerdema,** 2001. Making, measuring, and using water-accomodated fractions of petroleum for toxicity testing. In: *2001 International Oil Spill Conference.* American Petroleum Institute, Washington, DC, pp. 1269–1274.
96. Phillips, B. N., J. W. Hunt, B. S. Anderson, H. M. Puckett, R. Fairey, C. J. Wilson and **R. S. Tjeerdema,** 2001. Statistical significance of sediment toxicity test results: Threshold values derived by the detectable significance approach. *Environ. Toxicol. Chem.* 20, 371–373.
97. Viant, M. R., J. H. Walton, and **R. S. Tjeerdema,** 2001. Comparative toxic actions of 3-trifluoro-4-nitrophenol (TFM) in marine mollsucs as characterized by in vivo ^{31}P-NMR. *Pestic. Biochem. Physiol.* 71, 40–47.
98. Viant, M. R., J. H. Walton, P. L. TenBrook and **R. S. Tjeerdema,** 2002. Sublethal actions of copper in abalone (*Haliotis rufescens*) as characterized by in vivo ^{31}P-NMR. *Aquat. Toxicol.* 57, 139–151.
99. Viant, M. R., C. A. Pincetich, J. H. Walton, **R. S. Tjeerdema** and D. E. Hinton, 2002. Utilizing in vivo NMR to study sublethal stress in aquatic organisms. *Mar. Environ. Res.* 54, 553–557.
100. Adelsbach, T. and **R. S. Tjeerdema,** 2002. Chemistry and fate of fenvalerate and esfenvalerate. *Rev. Environ. Contam. Toxicol.* 176, 137–154 (invited).
101. Anderson, B. S., V. deVlaming, K., Larsen, L., Deanovic, S. Birosik, D. J., Smith, J. W., Hunt and **R. S. Tjeerdema,** 2002. Causes of toxicity in the Calleguas Creek Watershed of Southern California. *Environ. Monitor. Assess.* 78, 131–151.
102. Viant, M. R., E. S. Rosenblum and **R. S. Tjeerdema,** 2001. An optimized method for the determination of phosphoarginine in abalone tissue by high-performance liquid chromatography. *J. Chromatogr. B* 765, 107–111.
103. Lefebvre, K. A., M. W. Silver, S. Coale and **R. S. Tjeerdema,** 2002. Domoic acid in planktivorous fish in relation to toxic *Pseudo-nitschia* cell densities. *Mar. Biol.* 140, 625–631.
104. Shofer, S. L. and **R. S. Tjeerdema,** 2002. Sublethal actions of pentachlorophenol in abalone (*Haliotis rufescens*) veliger larvae as measured by ^{31}P NMR. *Ecotoxicol. Environ. Saf.* 51, 155–160.
105. Wheelock, C. E., T. Baumgartner, J. W. Newman, M. F. Wolfe and **R. S. Tjeerdema,** 2002. Effect of nutritional state upon HSP60 levels in the rotifer *Brachionus plicatilis* following toxicant exposure. *Aquat. Toxicol.* 61, 89–93.

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Standard Agreement

106. Davis, J. A., M. D. May, B. K. Greenfield, R. Fairey, C. Roberts, G. Ichikawa, M. Stoelting, J. Becker and **R. S. Tjeerdema,** 2002. Contaminant concentrations in sport fish from San Francisco Bay. *Mar. Pollut. Bull.* 44, 1115–1127.
107. Hunt, J. W., B. S. Anderson, B. M. Phillips, P. A. Nicely, **R. S. Tjeerdema,** H. M. Puckett, K. Worcester and V. deVlaming, 2003. Ambient toxicity due to chlorpyrifos and diazinon in a central California watershed. *Environ. Monitor. Assess.* 82, 83–112.
108. Hunt, J. W., B. S. Anderson, B. M. Phillips, **R. S. Tjeerdema,** H. M. Puckett, M. Stephenson, D. W. Tucker and D. W. Watson, 2002. Acute and chronic toxicity of nickel to marine organisms: Implications for water quality criteria. *Environ. Toxicol. Chem.* 21, 2423–2430.
109. Phillips, B. M., P. A. Nicely, J. W. Hunt, B. S. Anderson, **R. S. Tjeerdema,** S. E. Palmer, F. H. Palmer and H. M. Puckett, 2003. Toxicity of cadmium-copper-nickel-zinc mixtures to larval purple sea urchins (*Strongylocentrotus purpuratus*) and bay mussels (*Mytilus galloprovincialis*). *Bull. Environ. Contam. Toxicol.* 70, 592–599.
110. TenBrook, P. L., S. M. Kendall and **R. S. Tjeerdema,** 2003. Toxicokinetics and biotransformation of *p*-nitrophenol in the red abalone (*Haliotis rufescens*). *Aquat. Toxicol.* 62, 329–336.
111. Anderson, B. S., J. W. Hunt, B. M. Phillips, P. A. Nicely, V. deVlaming, V. Connor, N. Richard and **R. S. Tjeerdema**, 2003. Integrated assessment of the impacts of agricultural drainwater in the Salinas River (California, USA). *Environ. Pollut.* 124, 523–532.
112. Anderson, B. S., J. W. Hunt, B. M. Phillips, P. A. Nicely, K. D. Gilbert, V. deVlaming, V. Connor, N. Richard and **R. S. Tjeerdema,** 2003. Ecotoxicologic impacts of agriculture drainwater in the Salinas River (California, USA). *Environ. Toxicol. Chem.* 22, 2375–2384.
113. Neale, J. C. C., J. A. Van de Water, J. T. Harvey, **R. S. Tjeerdema** and M. E. Gershwin, 2002. Proliferative responses of harbor seal (*Phoca vitulina*) T lymphocytes to model marine pollutants. *Clin. Develop. Immunol.* 9, 215–221.
114. Phillips, B. M., B. S. Anderson, J. W. Hunt, B. Thompson, S. Lowe, R. Hoenicke and **R. S. Tjeerdema,** 2003. Causes of sediment toxicity to *Mytilus galloprovincialis* in San Francisco Bay, California. *Arch. Environ. Contam. Toxicol.* 45, 486–491.
115. Viant, M. R., E. R. Rosenblum and **R. S. Tjeerdema**, 2003. NMR-based metabolomics: A powerful tool for characterizing the effects of environmental stressors on organism health. *Environ. Sci. Technol.* 37, 4982–4989.
116. Viant, M. R., I. Werner, E. R. Rosenblum, A. S. Gantner, **R. S. Tjeerdema** and M. L. Johnson, 2004. Correlation between heat-shock protein induction and reduced metabolic condition in juvenile steelhead trout (*Oncorhynchus mykiss*) chronically exposed to elevated temperature. *Fish Physiol. Biochem.* 29, 159–171.
117. Anderson, B. S., J. W. Hunt, B. M. Phillips, P. A. Nicely, M. Martin and **R. S Tjeerdema,** 2004. Comparison of *in situ* and laboratory toxicity tests with the estuarine amphipod *Eohaustorius estuarius*. *Arch. Environ. Contam. Toxicol.* 46, 52–60.
118. Palumbo, A. J., P. L. TenBrook, A. Phipps and **R. S. Tjeerdema,** 2004. Comparative toxicity of thiobencarb and deschlorothiobencarb to rice (*Oryza sativa*). *Bull. Environ. Contam. Toxicol.* 73, 213–218.
119. Phillips, B. M., B. S. Anderson, J. W. Hunt, P. A. Nicely, R. Kosaka, **R. S. Tjeerdema,** V. deVlaming and N. Richard, 2004. *In situ* water and sediment toxicity in an agricultural watershed. *Environ. Toxicol. Chem.* 23, 435–442.
120. TenBrook, P. L., M. R. Viant, D. Holstege, J. F. Williams and **R. S. Tjeerdema,** 2004. Characterization of California rice field soils susceptible to delayed phytotoxicty syndrome. *Bull. Environ. Contam. Toxicol.* 73, 448–456.
121. Neale, J. C., F. M. D. Gulland, K. R. Schmelzer, J. T. Harvey, E. A. Berg, S. G. Allen, D. J. Greig, E. K. Grigg and **R. S. Tjeerdema,** 2005. Contaminant loads and hematological correlates in the harbor seal (*Phoca vitulina*) of San Francisco Bay, California. *J. Toxicol. Environ. Health.* 68: 617–633.
122. Schmelzer, K. R., C. S. Johnson, P. L. TenBrook, M. R. Viant, J. F. Williams and **R. S. Tjeerdema,** 2005. Influence of organic carbon on the reductive dechlorination of thiobencarb (Bolero) in California rice field soils. *Pest Manage. Sci.* 61, 68–74.
123. Mielbrecht, E. E., M. F. Wolfe, **R. S. Tjeerdema** and M. L. Sowby, 2005. Influence of a dispersant on the bioaccumulation of phenanthrene by topsmelt (*Atherinops affinis*). *Ecotoxicol. Environ. Saf.* 61, 44–52.

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Standard Agreement

124. Donham, R. T., D. Morin, W. T. Jewell, M. W. Lame, H. J. Segall and **R. S. Tjeerdema,** 2005. Characterization of glutathione *S*-transferases in juvenile white sturgeon (*Acipenser transmontanus*). *Aquat. Toxicol.* 71, 203–214.
125. TenBrook, P. L. and **R. S. Tjeerdema,** 2005. Comparative actions of clomazone on β-carotene and growth in rice and watergrasses (*Echinochloa* spp.). *Pest Manage. Sci.* 61, 567–571.
126. Braid, B. A., J. D. Moore, T. T. Robbins, R. P. Hedrick, **R. S. Tjeerdema,** and C. S. Friedman, 2005. Health and survival of red abalone, *Haliotis rufescens,* under varying temperature, food supply, and exposure to the agent of withering syndrome. *J. Invert. Pathol.* 89, 219–231.
127. Donham, R. T., D. Morin, W. T. Jewell, M. W. Lame, H. J. Segall and **R. S. Tjeerdema,** 2005. Characterization of cytosolic glutathione *S*-transferases in juvenile Chinook salmon (*Oncorhynchus tshawytscha*). *Aquat. Toxicol.* 73, 221–229.
128. Gunasekara, A. S., A. J. Palumbo, P. L. TenBrook and **R. S. Tjeerdema,** 2005. Influence of phosphate and copper on reductive dechlorination of thiobencarb in California rice field soils. *J. Agric. Food. Chem.* 53, 10113–10119.
129. Jabusch, T. W. and **R. S. Tjeerdema,** 2005. Partitioning of penoxsulam: A new sulfonamide herbicide. *J. Agric. Food Chem.* 53, 7179–7183.
130. Johnson, C. S., S. E. Schwarzbach, J. D. Henderson, B. W. Wilson and **R. S. Tjeerdema,** 2005. Effects of temperature on cholinesterase activity in frogs. *Environ. Toxicol. Chem.* 24, 2074–2077.
131. Neale, J. C. C., T. P. Kenny, **R. S. Tjeerdema** and M. E. Gershwin, 2005. PAH- and PCB-induced alterations of protein tyrosine kinase and cytokine gene transcription in harbor seal (*Phoca vitulina*) peripheral blood mononuclear cells. *Clin. Develop. Immunol.* 12: 91–97.
132. Neale, J. C., K. R. Schmelzer, F. M. D. Gulland, E. A. Berg and **R. S. Tjeerdema**, 2005. Organohalogen levels in harbor seal (*Phoca vitulina*) pups increase with duration of nursing. *J. Toxicol. Environ. Health.* 68, 687–691.
133. Phillips, B. M., P. A. Nicely, B. S. Anderson, J. W. Hunt, **R. S. Tjeerdema** and F. H. Palmer, 2005. Tolerance of five west coast marine toxicity test organisms to ammonia. *Bull. Environ. Contam. Toxicol.* 75: 23-27.
134. Pincetich, C. A., M. R. Viant, D. E. Hinton and **R. S. Tjeerdema,** 2005. Metabolic changes in Japanese medaka (*Oryzias latipes*) during embryogenesis and hypoxia determined by in vivo ^{31}P NMR. *Comp. Biochem. Physiol.* 140, 103–113.
135. Rosenblum, E. S., M. R. Viant, B. M. Braid, J. D. Moore, C. S. Friedman and **R. S. Tjeerdema,** 2005. Investigating the effects of pathogen, elevated temperature and starvation on the metabolic profiles of California red abalone, *Haliotis rufescens. Metabolomics* 1, 199–209.
136. Viant, M. R., J. G. Bundy, C. A. Pincetich, J. de Ropp and **R. S. Tjeerdema,** 2005. NMR-derived developmental metabolic trajectories: An approach for visualizing the toxic actions of trichloroethylene during embryogenesis. *Metabolomics* 1, 149–158.
137. Wheelock, C. E., J. L. Miller, M. J. Miller, B. M. Phillips, S. J. Gee, **R. S. Tjeerdema** and B. D. Hammock, 2005. Influence of container adsorption upon observed pyrethroid toxicity to *Ceriodaphnia dubia* and *Hyalella azteca. Aquat. Toxicol.* 74, 47–52.
138. Anderson, B. S., B. M. Phillips, J. W. Hunt, V. Connor, N. Richard and **R. S. Tjeerdema,** 2006. Identifying primary stressors impacting macroinvertebrates in the Salinas River (California, USA): Relative effects of pesticides and suspended particles. *Environ. Pollut.* 141, 402–408.
139. Anderson, B. S., B. M. Phillips, J. W. Hunt, S. A. Huntley, K. Worcester, N. Richard and **R. S. Tjeerdema,** 2006. Evidence of pesticide impacts in the Santa Maria River watershed (California, USA). *Environ. Toxicol. Chem.* 25, 1160–1170.
140. Donham, R. T., D. Morin and **R. S. Tjeerdema,** 2006. Salinity effects on activity and expression of glutathione *S*-transferases in white sturgeon and Chinook salmon. *Ecotoxicol. Environ. Saf.* 63, 293–298.
141. Jabusch, T. W. and **R. S. Tjeerdema,** 2006. Microbial degradation of penoxsulam in flooded rice field soils. *J. Agric. Food Chem.* 54, 5962–5967.
142. Jabusch, T. W. and **R. S. Tjeerdema,** 2006. Photochemical degradation of penoxsulam. *J. Agric. Food Chem.* 54, 5958–5961.
143. Lin, C.-Y., M. R. Viant and **R. S. Tjeerdema,** 2006. Metabolomics: Methodologies and applications in the environmental sciences. *J. Pestic. Sci.* 31, 245–251 (invited).

EXHIBIT F
Standard Agreement

144. Phillips, B. M., B. S. Anderson, J. W. Hunt, S. A. Huntley, **R. S. Tjeerdema,** N. Kapellas, K. Worcester, 2006. Solid-phase sediment toxicity identification evaluation in an agricultural stream. *Environ. Toxicol. Chem.* 25, 1671–1676.
145. TenBrook, P. L., S. M. Kendall and **R. S. Tjeerdema,** 2006. Toxicokinetics and biotransformation of *p*-nitrophenol in the white sturgeon (*Acipenser transmontanus*). *Ecotoxicol. Environ. Saf.* 64, 362–368.
146. TenBrook, P. L. and **R. S. Tjeerdema,** 2006. Biotransformation of clomazone in rice (*Oryza sativa*) and early watergrass (*Echinochloa oryzoides*). *Pestic. Biochem. Physiol.* 85, 38–45.
147. Viant, M. R., C. A. Pincetich, D. E. Hinton and **R. S. Tjeerdema,** 2006. Toxic actions of dinoseb in medaka (*Oryzias latipes*) embryos as determined by *in vivo* ^{31}P NMR, HPLC, and ^{1}H NMR metabolomics. *Aquat. Toxicol.* 76, 329–342.
148. Viant, M. R., C. A. Pincetich and **R. S. Tjeerdema,** 2006. Metabolic effects of dinoseb, diazinon, and esfenvalerate in eyed eggs and alevins of Chinook salmon (*Oncorhynchus tshawytscha*) as determined by ^{1}H NMR metabolomics. *Aquat. Toxicol.* 77, 359–371.
149. Wheelock, C. E., J. L. Miller, M. J. Miller, B. M. Phillips, S. A. Huntley, S. J. Gee, **R. S. Tjeerdema** and B. D. Hammock, 2006. Use of carboxylesterase activity to remove pyrethroid-associated toxicity to *Ceriodaphnia dubia* and *Hyalella azteca* in toxicity identification evaluations. *Environ. Toxicol. Chem.* 25, 973–984.
150. Dixon, R. A., D. R. Gang, A. J. Charlton, O. Fiehn, H. A. Kuiper, T. L. Reynolds, **R. S. Tjeerdema,** E. H. Jeffery, J. B. German, W. P. Ridley and J. N. Seiber, 2006. Applications of metabolomics in agriculture. *J. Agric. Food Chem.* 54, 8984–8994 (invited).
151. Donham, R. T., S. Chang, A. D. Luna, D. Morin and **R. S. Tjeerdema,** 2007. Characterization of cytosolic glutathione *S*-transferases in juvenile California halibut (*Paralichthys californicus*). *Ecotoxicol. Environ. Saf.* 66, 133–138.
152. Gunasekara, A. S., J. Troiano, K. Goh and **R. S. Tjeerdema,** 2007. Chemistry and fate of simazine. *Rev. Environ. Contam. Toxicol.* 189, 1–24 (invited).
153. Hunt, J. W., B. S. Anderson, B. M. Phillips, **R. S. Tjeerdema,** N. Richard, V. Connor, K. Worcester, M. Angelo, A. Bern, B. Fulfrost and D. Mulvaney, 2006. Spatial relationships between water quality and pesticide application rates in agricultural watersheds. *Environ. Monit. Assess.* 121, 245–262.
154. Neale, J. C., R. Small, K. R. Schmelzer and **R. S. Tjeerdema**, 2007. Blood concentrations of some persistent organohalogens in free-ranging spotted seals (*Phoca largha*) from Bristol Bay, Alaska. *J. Toxicol. Environ. Health* 70, 1776–1778.
155. Palumbo, A. J., J. Linares-Casenave, W. Jewell, S. I. Doroshov and **R. S. Tjeerdema,** 2007. Induction, purification, and partial characterization of California halibut (*Paralichthys californicus*) vitellogenin. *Comp. Biochem. Physiol.* 146, 200–207.
156. Rosenblum, E. S., M. R. Viant and **R. S. Tjeerdema,** 2006. Effects of the local environment on host-pathogen-drug interactions in red abalone determined by ^{1}H NMR metabolomics. *Environ. Sci. Technol.* 40, 7077–7084.
157. Werner, I., M. R. Viant, E. S. Rosenblum, A. S. Gantner, **R. S. Tjeerdema** and M. L. Johnson, 2006. Cellular responses to temperature stress in steelhead trout (*Onchorynchus mykiss*) parr with different rearing histories. *Fish Physiol. Biochem.* 32, 261–273.
158. Lin, C.-Y., H. Wu, **R. S. Tjeerdema** and M. R. Viant, 2007. Evaluation of metabolite extraction strategies from tissue samples using NMR metabolomics. *Metabolomics* 3, 55–67.
159. Gunasekara, A. S., K. Goh and **R. S. Tjeerdema,** 2007. Chemistry and fate of fipronil. *J. Pestic. Sci.* 32, 189–199 (invited).
160. Phillips, B. M, B. S. Anderson, J. W. Hunt, **R. S. Tjeerdema,** M. Carpio-Obeso and V. Connor, 2007. Causes of water column toxicity to *Hyalella azteca* in the New River, California (USA). *Environ. Toxicol. Chem.* 26, 1074–1079.

EXHIBIT F
Standard Agreement

161. Jessup, D. A., P. K. Yochem, M. Stoelting, **R. S. Tjeerdema** and B. S. Stewart, 2007. Baseline health parameters and polycyclic aromatic hydrocarbon (PAH) exposure levels for clinically normal harbor seals (*Phoca vitulina*) in California, USA. *Proceedings of the International Effects of Oil on Wildlife Conference* 9, 68–78 (invited).
162. **Tjeerdema, R. S.,** C.-Y. Lin, B. S. Anderson, M. R. Viant, D. L. Crane and M. W. Sowby, 2007. Effects of oil on the smolts of salmon (*Oncorhynchus tschawytscha*) – preliminary muscle results. *Proceedings of the International Effects of Oil on Wildlife Conference* 9, 220–228 (invited).
163. Anderson, B. S., J. W. Hunt, B. M. Phillips and **R. S. Tjeerdema,** 2007. *Navigating the TMDL Process: Sediment Toxicity.* Water Environment Research Foundation, IWA Publishing, London, 194 pp (ISBN 1-84339-766-8).
164. Chang, S., R. T. Donham, A. D. Luna, D. Morin, W. T. Jewell and **R. S. Tjeerdema,** 2008. Characterization of cytosolic glutathione *S*-transferases in striped bass (*Morone saxatilis*). *Ecotoxicol. Environ. Saf.* 69, 58–63.
165. Jabusch, T. W. and **R. S. Tjeerdema,** 2008. Chemistry and fate of triazolopyrimidine sulfonamide herbicides. *Rev. Environ. Contam. Toxicol.* 193, 31–52 (invited).
166. Anderson, B. S., S. Lowe, B. M. Phillips, J. W. Hunt, J. Voorhees, S. L. Clark and **R. S. Tjeerdema,** 2008. Relative sensitivites of toxicity test protocolswith the amphipods *Eohaustorius estuarius* and *Ampelisca abdita. Ecotoxicol. Environ. Saf.* 69, 24–31.
167. **Tjeerdema, R. S,** 2008. Application of NMR-based techniques in aquatic toxicology: Brief examples. *Mar. Pollut. Bull.* 57, 275–279. (invited).
168. Rosenblum, E. S., T. T, Robbins, B. B. Scott, S. Nelson, C. Juhasz, A. L. Craigmill, **R. S. Tjeerdema,** J. D. Moore and C. S. Friedman, 2008. Efficacy, tissue distribution, and residue depletion of oxytetracycline in WS-RLP infected California red abalone *Haliotis rufescens. Aquaculture* 277, 138–148.
169. Reeves, M. K., C. L. Dolph, H. Zimmer, **R. S. Tjeerdema** and K. A. Trust, 2008. Road proximity increases risk of skeletal abnormalities in wood frogs from national wildlife refuges in Alaska. *Environ. Health Perspect.* 116, 1009–1014.
170. Lin, C. -Y. and **R. S. Tjeerdema,** 2008. Crude oil, oil, gasoline and petrol. In: *Encyclopedia of Ecology, Volume 1: Ecotoxicology* (S. E. Jorgensen and B. D. Fath, eds.), Elsevier, Oxford, UK, pp. 797–805 (invited).
171. Yasuor, H., P. L. TenBrook, **R. S. Tjeerdema** and A. J. Fischer, 2008. Responses to clomazone and 5-ketoclomazone by *Echinochloa phyllopogon* resistant to multiple herbicides in Californian rice fields. *Pest Manage. Sci.* 64, 1031–1039.
172. Anderson, B. S., B. M. Phillips, J. W. Hunt, J. Voorhees, S. Clark, A. Mekebri, D. Crane and **R. S. Tjeerdema,** 2008. Recent advances in sediment toxicity identification evaluations emphasizing pyrethroid insecticides. In: Gan, J.-G., P. Hendley, F. Spurlock and D. Weston (eds), *Synthetic Pyrethroids: Occurence and Behavior in Aquatic Environments.* American Chemical Society Books, Washington, DC, 370–399. (invited).
173. Gunasekara, A. S., K. Goh, F. Spurlock, A. L. Rubin and **R. S. Tjeerdema,** 2008. Environmental fate and toxicology of carbaryl. *Rev. Environ. Contam. Toxicol.* 196, 95–121 (invited).
174. Hunt, J. W., B. S. Anderson, B. M. Phillips, **R. S. Tjeerdema,** B. Largay, M. Beretti, A. Bern, 2008. Use of toxicity identification evaluations to determine the pesticide mitigation effectiveness of on-farm vegetated treatment systems. *Environ. Pollut.* 156, 348–358.
175. Whalen, K. E., D. Morin, C. -Y. Lin, **R. S. Tjeerdema,** J. V. Goldstone, M. E. Hahn, 2008. Proteomic identification, cDNA cloning and enzymatic activity of glutathione *S*-transferases from the generalist marine gastropod, *Cyphoma gibbosum. Arch. Biochem. Biophys.* 478, 7–17.
176. Hsieh, F., H. Wu, C. Y. Lin and **R. S. Tjeerdema,** 2008. A new meta-ANOVA approach for synthesizing information under signal-heterogeneity setting with application to nuclear magnetic spectroscopic data. *Metabolomics* 4, 283–291.
177. Viant, M. R., D. Bearden, J. G. Bundy, I. Burton, T. Collette, D. Ekman, T. Karakach, C. Y. Lin, S. Rochfort, J. de Ropp, Q. Teng, **R. S. Tjeerdema,** J. Walter and H. Wu, 2009. International NMR-based environmental metabolomics intercomparison exercise. *Environ. Sci. Technol.* 43, 219–225.

EXHIBIT F
Standard Agreement

178. Anderson, B. S., D. Arenella-Parkerson, B. M. Phillips, D. Crane and **R. S. Tjeerdema,** 2009. Effects of dispersed and un-dispersed oil on developing topsmelt embryos (*Atherinops affinis*). *Environ. Pollut.* 157, 1058–1061.
179. TenBrook, P. L., **R. S. Tjeerdema,** P. Hann and J. Karkoski, 2009. Methods for deriving pesticide aquatic life criteria. *Rev. Environ. Contam. Toxicol.* 199, 19–110 (invited).
180. Neale, J. C., K. R. Schmelzer, J. T. Harvey, E. A. Berg, R. A. Small, E. K. Grigg, S. G. Allen and **R. S. Tjeerdema,** 2009. PCB and DDE contamination in harbor seals (*Phoca vitulina*) from north-central California and Bristol Bay, Alaska. *Aquat. Mammals* 35, 1–11.
181. Palumbo, A. J., M. Koivunen and **R. S. Tjeerdema,** 2009. Optimization and validation of a California halibut vitellogenin immunoassay and environmental estrogen bioassay. *Sci. Tot. Environ.* 407, 953–961.
182. Gunasekara, A. S., I. D. P. de la Cruz, M. J. Curtis, V. P. Claassen and **R. S. Tjeerdema,** 2009. The behavior of clomazone in the soil environment. *Pest. Manage. Sci.* 65, 711–716.
183. Phillips, B. M., B. S. Anderson, J. W. Hunt, S. L. Clark, J. P. Voorhees, **R. S. Tjeerdema,** J. Casteline and M. Stewart, 2009. Evaluation of phase II toxicity identification evaluation methods for freshwater whole sediment and interstitial water. *Chemosphere* 74, 648–653.
184. Palumbo, A. J., S. Doroshov, M. S. Denison and **R. S. Tjeerdema,** 2009. Reduction of vitellogenin synthesis by an aryl hydrocarbon receptor agonist in the white sturgeon (*Acipenser transmontamus*). *Environ. Toxicol. Chem.* 28, 1749–1755.
185. Lin, C. -Y., B. S. Anderson, B. M. Phillips, A. C. Peng, S. Clark, J. Voorhees, H. –D. I. Wu, M. J. Martin, J. McCall, C. R. Todd, F. Hsieh, D. Crane, M. R. Viant, M. L. Sowby and **R. S. Tjeerdema,** 2009. Characterization of the metabolic actions of crude versus dispersed oil in salmon smolts via NMR-based metabolomics. *Aquat. Toxicol.* 95, 230–238.
186. Vasquez, M. E., A. S. Gunasekara, T. M. Cahill and **R. S. Tjeerdema,** 2010. Partitioning of etofenprox under simulated California rice growing conditions. *Pest Manage. Sci.* 66, 28–34.
187. Tomco, P., D. M. Holstege, W. Zhou and **R. S. Tjeerdema,** 2010. Microbial degradation of clomazone in California rice fields. *J. Agric. Food. Chem.* 58, 3674–3680.
188. Yasuor, H., W. Zou, V. V. Tolstikov, **R. S. Tjeerdema** and A. J. Fischer, 2010. Differential oxidative metabolism and 5-ketoclomazone accumulation are involved in *Echinochloa phyllopogon* resistance to clomazone. *Plant Physiol.* 153, 319–326.
189. Anderson, B. S., B. M. Phillips, J. W. Hunt, S. W. Clark, J. P. Voorhees, **R. S. Tjeerdema,** J. Casteline, M. Stewart, D. Crane, A. Mekebri, 2010. Evaluation of methods to determine causes of sediment toxicity in San Diego Bay, California, USA. *Ecotoxicol. Environ. Saf.* 73, 534–540.
190. Van Scoy, A., C. -Y. Lin, B. S. Anderson, B. M. Phillips, S. Clark, J. Voorhees, C. R. Todd, D. Crane, M. R. Viant, M. L. Sowby and **R. S. Tjeerdema,** 2010. Metabolic responses produced by crude versus dispersed oil in Chinook salmon presmolts via NMR-based metabolomics. *Ecotoxicol. Environ. Saf.* 73, 710–717.
191. TenBrook, P. L., A. J. Palumbo, T. L. Fojut, P. Hann, J. Karkoski and **R. S. Tjeerdema,** 2010. Derivation of pesticide water quality criteria for the protection of aquatic life. *Rev. Environ. Contam. Toxicol.* 209, 1–155.
192. Place, B., B. S. Anderson, D. Crane, E. Furlong, **R. S. Tjeerdema** and J. Field, 2010. A role for analytical chemistry in advancing our understanding of the occurrence and fate of Corexit oil dispersants. *Environ. Sci. Technol.* 44, 6016–6018.
193. Anderson, B.S., B. M. Phillips, J. W. Hunt, B. Largay, R. Shihadeh and **R. S. Tjeerdema.** Pesticide and toxicity reduction using an integrated vegetated treatment system. *Environ. Toxicol. Chem.* (in press).
194. Vasquez, M. E., D. M. Holstege and **R. S. Tjeerdema.** Aerobic versus anaerobic microbial degradation of etofenprox in a California rice field soil. *J. Agric. Food Chem.* (in press).
195. Gunasekara, A. S., V. P. Claassen, M. J. Curtis, D. P. Land, T. Ruthenburg and **R. S. Tjeerdema.** Sorption of a thiocarbamate to soils: Contributions from mineral, organic matter and black carbon fractions. *Pest. Manage. Sci.* (submitted)

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Standard Agreement

196. Palumbo, A. J., P. L. TenBrook, T. L. Fojut, I. R. Faria and **R. S. Tjeerdema.** Chlorpyrifos, diazinon and malathion aquatic life water quality criteria derived by the UC Davis Methodology. *Integr. Environ. Assess. Manage.* (submitted)