

Qualifications Summary

- 37 years environmental laboratory experience
- Competent in all aspects of environmental laboratory operations
- Actively involved in state regulatory programs and industry associations
- Past-President of Independent Testing Laboratory Association (ITLA)
- Extensive knowledge of:
 - Data interpretation
 - Data usability
 - Sampling techniques
 - Method development / method selection
 - Quality assurance / quality control
 - Project application of laboratory data

JAMES OCCHIALINI

VP Technical Sales
Sediment / Tissue, Emerging Contaminates & Hydrocarbon Forensics
Practice Leader

Professional Affiliations

Licensed Site Professionals (LSPA)
LSPA Technical Practices Committee
LSPA Education Committee
NAC SETAC Board Member
Environmental Business Council
PCB Remediation Subcommittee
MassDEP EPH/VPH Workgroup
MassDEP Data Enhancement Workgroup
MassDEP Data Usability Workgroup
MassDEP Compendium Analytical Methods Workgroup

Fields of Expertise

Over 37 years of environmental analytical and consulting experience working on a wide range of project applications including site characterization / investigation and remediation; ecological and human health risk assessment; field analytical screening; analytical method development; and data validation. Serves as Product Line Manager for the laboratory's Emerging Contaminants, Sediment / Tissue and Hydrocarbon Forensics laboratory product lines. Provides extensive project-level technical support in the areas of data interpretation and usability; sampling and analytical method selection; and quality assurance/quality control to both clients externally and internally to laboratory staff. Developed a modified procedure for determining the bioaccessability of arsenic and lead based on the In Vitro Method SOP published by the Bioaccessability / Bioavailability Research Consortium. Provides technical assistance and troubleshooting associated with the research and method development required for technical studies, as well as the introduction of new services and strategic initiatives.

As a Principal Scientist with a major consulting engineering firm and Laboratory Manager, he oversaw the technical activities of the laboratory, which provided a wide range of environmental testing, treatability and consulting services. Jim provided considerable direction in the design of the laboratory facility and the development of many of its unique, full-service analytical support capabilities. Additional responsibilities included Quality Assurance Manager for a major RCRA site remediation program, Technical

Publications and Presentations

James F. Occhialini

Advisor to Central Artery ROWARS contract and Lead Chemist liaison to EPA on REM II, ARCS I and TES Superfund contracts.

Higher Education

BS Environmental Science, chemistry concentration, University of Massachusetts (1978)
CSS Management & Administration (1992) Harvard University Extension School

Employment History

1999-Present Alpha Analytical, Vice President Technical Sales
1979-1999 CDM, staff chemist to Principal Scientist, Laboratory Manager
1978 Reitzel Associates, Bench Chemist

Publications and Presentations

“Understanding Laboratory Analysis”, LSRPA Laboratory Communication Course, James Occhialini, Princeton, NJ, November 9, 2017

“Potential for PFAS Cross-Contamination from Sampling Equipment, Clothing, and Personal Care Products”, 33rd Annual International Conference on Soils, Sediments, Water, and Energy, James Occhialini, Elizabeth Denly & Philip Bassignani, October 18, 2017, Amherst, MA

“A Comparison of Analytical Methods for Volatile Petroleum Hydrocarbons (VPH): VPH by GC-PID-FID versus VPH by GC/MS”, poster presentation, 33rd Annual International Conference on Soils, Sediments, Water, and Energy, Richard Rago, Haley & Aldrich, James Occhialini, Alpha Analytical, October 17, 2017, Amherst, MA

“PFAS Laboratory Considerations”, Workshop 3: Per- and Polyfluoroalkyl Substances (PFAS): The Latest Information, 33rd Annual International Conference on Soils, Sediments, Water, and Energy, James Occhialini, October 16, 2017, Amherst, MA

“1, 4- Dioxane – A Review and Evaluation of the Available Analytical Methodologies Used in Support of the Latest State and Federal Standards”, AEG Emerging Contaminants Seminar, James Occhialini, Colorado Springs, CO, September 14, 2017

“Chemistry and Analytical Methodology Review of Perchlorate, 1,4-Dioxane and PFAS”, Alpha Analytical Emerging Contaminates Seminar, James Occhialini, Albany NY, June 21, 2017

“Use of Forensics in Petroleum Spill Cases”, NYSBA Oil Spill Symposium, James Occhialini, Alpha Analytical; Scott Stout, Newfields, June 7, 2017

James Occhialini, Meeting of the Young/Sommer Environmental Breakfast Club, Albany NY, June 2, 2017

“Laboratory Data Quality Assessment and Data Usability Evaluation For Environmental Investigation and Remediation Projects” CT DEEP / EPOC training program, May 2017

“PFAS Analysis”, James Occhialini, Long Island Association of Professional Geologists, April 27, 2017

Publications and Presentations

James F. Occhialini

“An Addition to the PCB Analytical Toolbox”, James Occhialini, Alpha Analytical; Ernest Ashley, CDM Smith; Keir Cragie, Tetra Tech, Poster Presentation, Battelle Sediments Conference, New Orleans, LA, January 2017

“Development of a Passive Porewater Sampler for Divalent Metals”, Stephen Clough, Haley & Aldrich, James Occhialini, Alpha Analytical, Poster Presentation, Battelle Sediments Conference, New Orleans, LA, January 2017

“Managing PCB Impacted Building Materials - Analytical Methods”, James Occhialini, EBC PCB Seminar, Eversource Energy, Berlin, Connecticut 10/20/2016

“1, 4- Dioxane – A Review of Analytical Methodologies”, James Occhialini, Association of Environmental and Engineering Geologists, New York – Philadelphia Chapter Meeting, October 6, 2016

“Sediment and Tissue Analysis, Ecological Risk Assessment Analytical Support”, James Occhialini, Alpha Analytical, January 2016 Meeting of the Young/Sommer Environmental Breakfast Club, Albany NY

“Review of a Comprehensive, Alternate Approach for PCB Congener / Homolog Analysis”, Jim Occhialini, Cindy McQueen, Alpha Analytical, 31st Annual International Conference on Soils, Sediments, Water, and Energy, October 19-22, 2015

“A Comparison of SPME Approaches for the Analysis of Alkylated PAHs in Pore Water”, James Occhialini, Pore water: The Interaction between Sediment, Biota, and Water, HDC SETAC 2015 Fall Workshop

“Review of a Comprehensive, Alternate Approach for PCB Congener / Homolog Analysis”, Jim Occhialini, Cindy McQueen, Alpha Analytical, Remediation and Restoration Challenges in the Mid-Atlantic Region, HDC SETAC, Spring 2015

“Practical Applications of Petroleum Hydrocarbon Chemistry, Analytical Measurement Methods / Techniques”; James Occhialini, LSPA/EPOC Training Seminars, March 2015

“Review of a Comprehensive, Alternate Approach for PCB Congener / Homolog Analysis”, Jim Occhialini, Cindy McQueen, Alpha Analytical, Long Island Association of Professional Geologists, February 19, 2015

“Establishment of a Baseline Porewater Data Set for Long-term Monitoring of In Situ Treatment”, Keir Cragie, Gary Braun, Tetra Tech, James Occhialini, Alpha Analytical, Battelle Sediment Conference, poster presentation, February 2014

“Review of a Comprehensive, Alternate Approach for PCB Congener / Homolog Analysis”, Jim Occhialini, Cindy McQueen, Alpha Analytical, 2015 Delaware Estuary Science & Environmental Summit, January, 2015

“Managing PCB Impacted Building Materials, Top Tips for PCB Analysis”, James Occhialini, Alpha Analytical, Northeast Utilities, Berlin, Connecticut, 9/24/2014

“Laboratory Methods”, The MassDEP Petroleum Analytical Methods Workshop, Jim Occhialini Alpha Analytical, MassDEP/LSPA Continuing Education Seminar, 11/19/2014

Publications and Presentations

James F. Occhialini

“Are Mercury Concentrations in Tissue Samples Historically Underreported?” Stephen Clough, Haley & Aldrich, John Kowalski, James Occhialini, Alpha Analytical; The 30th Annual Conference on Soils, Sediments, Water & Energy, AEHSF, University of Massachusetts, Amherst, 10/21/2014

“PCB Congener & Homolog Analysis by GC/LRMS”, James Occhialini, Cynthia McQueen, Norm Laurianno, Jolanta Scieglinska, 2013 A&WMA Southern Section, Annual Meeting and Technical Conference, Nashville, TN

“Improper Sediment Sampling and Handling Can Result in False-Positive Assertions of Metal Bioavailability”, Dr. Bruce Tease, Environ International Corporation, James Occhialini, Alpha Analytical, 4/2013, SETAC-HDC

“Overview of Laboratory Operations” & “Analytical Data Usability Assessment”, 3/2013, LSRP Technical Training Seminar, New Brunswick, New Jersey

“Sediment & Tissue Analysis: Challenges & Solutions”, James Occhialini, SETAC-HDC, Montclair, NJ, April 2012

“Analytical Considerations – Managing PCB Contaminated Caulking in Older Buildings”, James Occhialini, EBC Remediation Program, Westborough, MA, March 2012

“Potential False Positives in Volatile Petroleum Hydrocarbons (VPH) Analytical Methods - The Effect of Non-Target Compounds On MCP Decision Making and MassDEP Policy #WSC-02-411”, Richard Rago, James Occhialini, & Jane Parkin Kullmann, LSPA, Westborough / Springfield, MA, January / February 2012

“Differential Body Burdens of Various Metals and Organic Compounds in Co-Occurring Marine Bivalves: Implications for Ecological and Human Health Risk Assessment”, Jerome Cura, James Occhialini, Donna Voorhees, platform presentation, Society of Risk Analysis Annual Meeting, Charleston, SC, December 2011

“Differential Body Burdens of Various Metals and Organic Compounds in Co-Occurring Marine Bivalves: Implications for Ecological and Human Health Risk Assessment”, Jerome Cura, James Occhialini, Donna Voorhees, poster presentation, SETAC National Conference, Boston, MA November 2011

“Sediment & Tissue Analysis: Challenges & Solutions”- Contaminated Sediment Site Management, James Occhialini, Contaminated Sediment Site Management, Part 1, Advances in Sediment Site Characterization, EBC, Boston, MA, September 2011

“How Overly Cautious Risk Assessment Methods Overstate Risk from PCBs in Indoor Air”, James Okun, James Occhialini & Andrew Rezendes, The 27th International Conference on Soils, Sediments, Water & Energy, University Of Massachusetts, Amherst, MA, October 2011, Proceedings of the Annual International Conference on Soils, Sediments, Water and Energy, Volume 17 Article 6, 1-1-2012

“Potential False Positives in Volatile Petroleum Hydrocarbons (VPH) Analytical Methods -

Publications and Presentations

James F. Occhialini

The Effect of Non-Target Compounds On MCP Decision Making and MassDEP Policy #WSC-02-411”, Richard Rago, James Occhialini, & Jane Parkin Kullmann, The 27th International Conference on Soils, Sediments, Water & Energy, University Of Massachusetts, Amherst, MA, October 2011

“PCB Chemistry & Analytical Considerations”, Managing PCBs in Caulk in Older Buildings, EBC New England Seminar, Waltham, MA, May 2010, Manchester, NH June 2010

“Time Travel, Fabrication, Manipulation, and Spoliation – Threats to Data Quality”, A. Dallas Wait, Kim Reynolds Reid, James Occhialini, James Todaro, Environmental Claims Journal, Taylor Francis Group, LLC, Volume 22, Issue 2, May 2010

“The Revised CAM – What an LSP Needs to Know”, Donald Muldoon, Elizabeth Denly, James Occhialini, MassDEP Training Program, multiple Massachusetts locations, October 2009

“Analysis of PCB in Seafood Tissue: A Case Study from New Bedford Harbor”, Paul Craffey, Jayme P. Connolly, James Occhialini, and Maura K. Surprenant, SETAC NAC annual meeting, Durham, NH (UNH), June 2009

“Differential Body Burdens of Various Metals and Organic Compounds in Co-Occurring Marine Bivalves: Implications for Ecological and Human Health Risk Assessment”, Jerome Cura, James Occhialini, Donna Voorhees, poster presentation, SETAC NAC annual meeting, Durham, NH (UNH), June 2009

“Laboratory Interface Training”, Susan Chapnick, James Occhialini, and Nancy Rothman, LSPA training course, Taunton & Westford MA, March, April 2009

“Working With a Laboratory”, Harvard University Wastewater Operator Training, James Occhialini & Mathew Beaupre, December 2008

“Hydrocarbon Analysis - Routine Environmental Procedures vs. Advanced Fingerprinting”, James Occhialini, Presented to the Long Island Association of Professional Geologists, September 18, 2008

“MCP Representativeness Evaluations & Data Usability Assessments” Elizabeth Callahan, Donald Muldoon, Wesley Stimpson, & James Occhialini, MassDEP 8 hour training course conducted in support of new MCP regulations, March / April 2008, 5 sessions

“Water Quality Basics” by James F. Occhialini, Public Health, Ground Water & Water Wells Workshop, American Ground Water Trust, January 30, 2007

“An Introduction to MassDEP’s Representativeness Evaluation & Data Usability Assessment Guidance” by Susan Chapnick & James Occhialini, LSPA Membership Meeting, January 9, 2007

“Data Management in Support of the MCP”, by James Occhialini & Wesley Stimpson, Training Course conducted for the LSPA, December, 2005

Publications and Presentations

James F. Occhialini

“Connecticut Data Quality Policy Overview, Final MCP Data Quality Enhancement Policy and the Proposed Wave 2 Revisions”, Glen Breland, James Occhialini & Wesley Stimpson, LSPA Membership Meeting, Western Region, October, 2004

“Analysis of 1,4 Dioxane, - Technical Challenges & Observed Results”, Scott Enright, Scott McLean, James Occhialini, James Todaro, and Joseph Watkins, 20th Annual International Conference for Contaminated Soils, Sediments and Water, UMASS Amherst, October, 2004

“Got Sulfur? Analytical Methods in the Odor Threshold Range” by Andrew Rezendes, James F. Occhialini and Michael Lannan. Water Environment Federation / Air & Waste Management Association, Bellevue, WA, April, 2004

“A Comparison of Commonly Used Cyanide Analytical Methodologies for Manufactured Gas Plant (MGP) Applications” by James F. Occhialini, James C. Todaro, Joseph Clements, James Roth, Elena Dayn, Tamara Burke Devine, William R. Swanson, and Michael Rostkowski, Published in the Journal of Environmental Forensics, Taylor & Francis Publishers, Volume 5, Number 2, June 2004

“Implementing the Massachusetts DEP’s Data Enhancement Policy, Practical Tips for LSPs and Other Data Users”, Carol Bois, Glen Breland, John Fitzgerald, James Occhialini, DEP/LSPA Training Course, October, 2003

“ A Comparison of Commonly Used Cyanide Analytical Methodologies for Manufactured Gas Plant (MGP) Applications” by James F. Occhialini, James C. Todaro, Joseph Clements, James Roth, Elena Dayn, Tamara Burke Devine, William R. Swanson, and Michael Rostkowski presented at the 19th Annual International Conference for Contaminated Soils, Sediments and Water, UMASS Amherst, October, 2003

“Modified In Vitro Method for the Determination of Lead and Arsenic Bioaccessibility” by James F. Occhialini, James C. Todaro and Joseph Clements, poster presentation, 19th Annual International Conference for Contaminated Soils, Sediments and Water, UMASS Amherst, October, 2003

“The Massachusetts Contingency Plan (MCP) Data Quality Enhancement Program – Implementation Overview and Lessons Learned from a Laboratory Perspective” by James F. Occhialini. Presented at the National Environmental Monitoring Conference, Washington DC, July 2003

“MCP Data Quality Enhancement Program – Overview & Current Status” by James F. Occhialini, AMEL/LANH Tradeshow, Saco ME, May 2003

“MCP Data Quality Enhancement Program” by James F. Occhialini, Air & Waste Management Association Conference, New England Section, Worcester MA, October 2002

“MCP Data Quality Enhancement Program” by James F. Occhialini, Changes to the MCP- Impacts to Business and Municipalities, Waltham MA, June 2002

Publications and Presentations

James F. Occhialini

“Laboratory Quality Assurance and Quality Control Concepts” by James F. Occhialini, MADEP Data Quality Enhancement Training, Massachusetts (12 sessions statewide), Spring 2002

“MCP Data Quality Enhancement Program – The Laboratory Perspective”, by James F. Occhialini, LSPA Membership Meeting, Marlborough MA, January 2002

“Case Study: VPH and EPH Report Review” by James F. Occhialini and James C. Todaro, The MADEP Petroleum Analytical Methods: VPH, EPH and APH, Marlborough MA, May 2001 (2 sessions)

“Update on Laboratory Analysis” by James F. Occhialini, New England Water Works Association, Spring 2001 Joint Regional Operations Conference and Exhibition, Worcester MA, April 2001

“Sampling and Analysis of Soils for VOCs” by James F. Occhialini, LSPA Membership Meeting, Fall, 2000

“Trace Organics Analysis” by James F. Occhialini, The Massachusetts Pretreatment Forum, Millbury MA, March 2000

"Chemical Analysis: QA/QC" Presented at the LSPA / ITLA Continuing Education Seminar October 1999

"Hazardous Waste Determination for Metal Finishers, The Role of the Laboratory" Presented at a series of joint MassDEP/EPA Compliance and Pollution Prevention Workshops, Fall 1999, (2 sessions)

“EPH/VPH Data Quality & Laboratory Reporting” by James F. Occhialini. Presented at the Licensed Site Professionals March 1999 Monthly Meeting, Waltham, MA

"Successful Laboratory Operations" by James F. Occhialini. Presented at the New England Water Works Association training session "Current Issues Impacting Drinking Water Quality Laboratories", Boxboro, MA, October, 1998

"Nuisance Odors Associated with the Use of Propylene Glycol Based Deicers" by James F. Occhialini. Presented at the ACI-NA Joint Environmental/Technical Committee Meeting, Pittsburgh, PA 1996

"Evaluation of a GC PID/FID Procedure for the Analysis of EPH" by James F. Occhialini, David L. Gottshall and Robert A. Burke. Presented at the 11'th Annual Conference on Contaminated Soils, University of Massachusetts, Amherst, 1996

"Round Robin HAA Testing Prompts Uncertainty in EPA Method 552.1" by Sarah Elizabeth Seckinger, Carol Ashe and James F. Occhialini. Presented at the American Water Works Association Water Quality Technology Conference, Boston MA, 1996

Publications and Presentations

James F. Occhialini

"An Evaluation of Method 552.1 and SM 6233B Performance for the Determination of Haloacetic Acids" by James F. Occhialini, Susan Crowell, Daniel P. Roberge, and Peter T. Maynard. Presented at the American Water Works Association Water Quality Technology Conference, Boston MA, 1996

"A Comparison of EPA Method 510.1, the Determination of Maximum Total THM Potential, with a Procedure Developed to Model THM Formation in Distribution Systems" by James F. Occhialini, Peter T. Maynard and Daniel P. Roberge. Presented at the American Water Works Association Water Quality Technology Conference, Toronto, Ontario, Canada, 1992

"Investigating Dioxin in Treatment Plant Sludge" by Robert H. Sheldon, James F. Occhialini and Albert B. Pincince. Presented at the Water Pollution Control Conference, Philadelphia PA, 1987

"Data Quality Objectives for Remedial Response Activities" (EPA/540/G-87/003), James Occhialini, initial project manager and contributing author. 1986 - 1987

"Data Quality Objectives for Hazardous Waste Site Remediation" by James F. Occhialini and Linda Y. Boornazian, USEPA. Presented at the Fourth Annual Hazardous Materials Management Conference, Atlantic City NJ, 1986