



International Lead Association

Publications and Reports from ILA Environmental Research (2006 – 2017). Please feel free to contact us (Chowdhury@ila-lead.org) for unpublished reports or manuscripts.

| Year | Author and Title | Publication type | Availability | Remarks |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------|-------------------------------------------------|
| Freshwater lead | | | | |
| 2017 | Church, B., Van Sprang, P., Chowdhury, M.J., and DeForest D.K. 2017. Updated species sensitivity distributions for acute and chronic lead toxicity to saltwater life. Environmental Toxicology and Chemistry | Journal Paper | DOI: 10.1002/etc.3863 | Available online (No volume or page number yet) |
| 2017 | DeForest, D.K., Santore, R.C., Ryan, AC, Church, B., Chowdhury, M.J., and Brix, K.V. 2017. Development of biotic ligand model (BLM)-based freshwater aquatic life criteria for lead in the United State. Environmental Toxicology and Chemistry. | Journal paper | DOI: 10.1002/etc.3861 | Available online (No volume or page number yet) |
| 2016 | Nys, C., Janssen, C., De Schampelaere, K.A.C. 2016. Development and validation of a chronic Pb bioavailability model for the freshwater rotifer <i>Brachionus calyciflorus</i> . Environmental Toxicology and Chemistry, 35 (2): 2977 – 2986. | Journal paper | DOI: 10.1002/etc.3480 | Available online |
| 2016 | Besser, J.M., Ivey, C.D., Brumbaugh, W.G., Ingersoll, C.G. 2016. Effect of diet quality on the chronic toxicity of aqueous lead to the amphipod, <i>Hyalella Azteca</i> . Environmental Toxicology and Chemistry, 35 (7): 1825 – 1834. | Journal paper | DOI: 10.1002/etc.3341 | Available online |

| Year | Author and Title | Publication type | Availability | Remarks |
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| 2016 | Van Sprang, P.A., Nys, C., Blust, R., Chowdhury, M.J. Gustafsson, J.P., Janssen, C.J., and De Schampelaere, K.A.C. 2016. The derivation of safe concentrations of lead for European freshwater ecosystems. <i>Environmental Toxicology and Chemistry</i> , 35(5):1310-1320. | Journal paper | DOI: 10.1002/etc.3262 | Available online |
| 2016 | Alsop, D., Ng, T. Y.-T., Chowdhury, M.J., Wood, C.M. 2016. Interactions of waterborne and dietborne Pb in rainbow trout, <i>Oncorhynchus mykiss</i> : bioaccumulation, physiological responses, and chronic toxicity. <i>Aquatic Toxicology</i> , 177 (2016):343–354 | Journal paper | doi:10.1016/j.aquatox.2016.06.007 | Available online |
| 2015 | DeForest, D.K. and Meyer, J.S. 2015. Critical Review: Toxicity of Dietborne Metals to Aquatic Organisms, <i>Critical Reviews in Environmental Science and Technology</i> , 45:11, 1176-1241. | Journal paper | DOI: 10.1080/10643389.2014.955626 | Available online |
| 2014 | De Schampelaere, K.A.C, Nys, C., Janssen, C.R. 2014. Ecotoxicity of lead (Pb) to freshwater green algae: development and validation of a bioavailability model and inter-species sensitivity comparison. <i>Aquat Toxicol</i> 155: 348-359. | Journal paper | doi:10.1016/j.aquatox.2014.07.008 | Available online |
| 2014 | Antunes, P.M.C., Kreager, N.J. 2014. Lead toxicity to <i>Lemna</i> minor predicted using a metal speciation chemistry approach. <i>Environ Toxicol Chem</i> 33: 2225-2233. | Journal paper | DOI: 10.1002/etc.2688 | Available online |
| 2014 | Nys, C., C.R. Janssen, E.M. Mager, A.J. Esbaugh, K.V. Brix, M. Grosell, W.A. Stubblefield, K. Holtze, K.A.C. De Schampelaere. 2014. Development and validation of a biotic ligand model for predicting chronic toxicity of lead to <i>Ceriodaphnia dubia</i> . <i>Environ. Toxicol. Chem.</i> 33(2): 394-403. | Journal paper | DOI: 10.1002/etc.2433 | Available online |
| 2014 | Blust R et al. 2014. Chemical analysis and speciation modeling of lead solubility under ecotoxicity testing relevant exposure scenarios. Department of Biology, University of Antwerp, Belgium. Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA.34 p. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |

| Year | Author and Title | Publication type | Availability | Remarks |
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| 2013 | Munley, K.M., K.V. Brix, J. Panlilio, D.K. Deforest, and M. Grosell. 2013. Growth inhibition in early life-stage tests predicts full life-cycle toxicity effects of lead in the freshwater pulmonate snail, <i>Lymnaea stagnalis</i> . <i>Aquat. Toxicol.</i> 128-129: 60-66 | Journal paper | aquatox.2012.11.020 | Available online |
| 2013 | Nys C, and De Schamphelaere KAC. 2013. Effect of Ca and pH on acute toxicity of Pb to <i>Ceriodaphnia dubia</i> . Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2013 | Nys C, Janssen CR, De Schamphelaere KAC. 2013. A comparison of chronic Pb sensitivity between laboratory and field populations of <i>Lymnaea stagnalis</i> . Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2013 | Nys C, Janssen CR, De Schamphelaere KAC. 2013. An investigation of the potential toxicity of dietary Pb to <i>Ceriodaphnia dubia</i> . Report prepared for International Lead Zinc Research Organization (ILZRO), Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2012 | Nys C, Janssen CR, De Schamphelaere KAC. 2012. Estimation of the effects of Ca ²⁺ , H ⁺ (pH) and DOC on chronic toxicity of Pb ²⁺ to <i>Brachionus calyciflorus</i> : Development and validation of a Biotic Ligand Model (BLM). Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2012 | Esbaugh, A.J., K.V. Brix, E.M. Mager, K. De Schamphelaere, and M. Grosell. 2012. Multi-linear regression analysis, preliminary biotic ligand modeling, and cross species comparison of the effects of water chemistry on chronic lead toxicity in invertebrates. <i>Comp. Biochem. Physiol.</i> 155C: 423-431. | Journal paper | doi:10.1016/j.cbpc.2011.11.005 | Available online |
| 2012 | Brix, K.V., A.J. Esbaugh, K.M. Munley, and M. Grosell. 2012. Investigations into the mechanism of lead toxicity to the | Journal paper | aquatox.2011.11.007 | Available online |

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| | freshwater pulmonate snail, <i>Lymnaea stagnalis</i> . <i>Aquat. Toxicol.</i> 106-107: 147-156. | | | |
| 2012 | AquaTox. 2012. Report on the toxicity of lead to the freshwater invertebrate, <i>Ceriodaphnia dubia</i> . Report Prepared by AquaTox for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2012 | Nguyen LTH, Janssen CR, De Schampelaere KAC. 2012. Chronic toxicity of Pb to <i>Chironomus riparius</i> in five natural waters. Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2012 | Wood, C.M., Alsop, D. 2012. Evaluating the relative contributions of waterborne and dietary lead to toxicity in rainbow trout. Report Prepared by McMaster University for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2011 | Esbaugh, A.J., K.V. Brix, E.M. Mager, and M. Grosell. 2011. Multi-linear regression models predict the effects of water chemistry on acute lead toxicity to <i>Ceriodaphnia dubia</i> and <i>Pimephales promelas</i> . <i>Comp. Biochem. Physiol.</i> 154C: 137-145. | Journal paper | doi:10.1016/j.cbpc.2011.04.006 | Available online |
| 2011 | Mager, E.M. and M. Grosell. 2011. Effects of acute and chronic waterborne lead exposure on the swimming performance and aerobic scope of fathead minnows (<i>Pimephales promelas</i>). <i>Comp. Biochem. Physiol.</i> 154C: 7-13. | Journal paper | doi:10.1016/j.cbpc.2011.03.002 | Available online |
| 2011 | Mager, E.M., K.V. Brix, R.M. Gerdes, A.C. Ryan, and M. Grosell. 2011. Effects of water chemistry on the chronic toxicity of lead to the cladoceran, <i>Ceriodaphnia dubia</i> . <i>Ecotoxicol. Environ. Saf.</i> 74: 238-243. | Journal paper | doi:10.1016/j.ecoenv.2010.11.005 | Available online |
| 2011 | Mager, E.M., A.J. Esbaugh, K.V. Brix, A.C. Ryan, and M. Grosell. 2011. Influences of water chemistry on the acute toxicity of lead to <i>Pimephales promelas</i> and <i>Ceriodaphnia dubia</i> . <i>Comp. Biochem. Physiol.</i> 153C: 82-90. | Journal paper | doi:10.1016/j.cbpc.2010.09.004 | Available online |

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| 2011 | Al-Reasi, H.A., Wood, C.M., Smith, D.S. 2011. Physicochemical and spectroscopic properties of natural organic matter (NOM) from various sources and implications for ameliorative effects on metal toxicity to aquatic biota. <i>Aquat. Toxicol.</i> 103:179-190. | Journal paper | doi:10.1016/j.aquatox.2011.02.015 | Available online |
| 2010 | Mager, E.M., K.V. Brix and M. Grosell. 2010. Influence of bicarbonate and humic acid on effects of chronic waterborne lead exposure to fathead minnow (<i>Pimephales promelas</i>). <i>Aquat. Toxicol.</i> 96: 135-144 | Journal paper | doi:10.1016/j.aquatox.2009.10.012 | Available online |
| 2010 | Antunes P, Holtze K. 2010. Final report: Testing the toxicity of Pb to Lemna minor in natural waters. Study number: aquatox 162704736. Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix. 2010. Chronic toxicity of lead to the cladoceran, Ceriodaphnia dubia, under varying calcium and pH water quality conditions. Study number: 598-3690-008. Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix. 2010a. Chronic toxicity of lead to the fathead minnow, Pimephales promelas, in natural waters. Report no.: 598-3690-008. Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2009 | Grosell, M. and K.V. Brix. 2009. High net calcium uptake explains the hypersensitivity of the freshwater pulmonate snail, Lymnaea stagnalis, to chronic lead exposure. <i>Aquat. Toxicol.</i> 91: 302-311. | Journal paper | doi:10.1016/j.aquatox.2008.10.012 | Available online |
| 2008 | Mager, E.M., H. Wintz, C.D. Vulpe, K.V. Brix, and M. Grosell. 2008. Toxicogenomics of water chemistry influence on chronic lead toxicity to the fathead minnow (<i>Pimephales promelas</i>). <i>Aquat. Toxicol.</i> 87(3): 200-209. | Journal paper | doi:10.1016/j.aquatox.2008.02.001 | Available online |
| 2007 | Parametrix. 2007. Evaluation of Chronic Lead Toxicity to the Great Pond Snail, Lymnaea stagnalis. Report no.: 598-3690- | Final Study Report | Contact ILA | A copy in pdf format can be |

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| | 008. Report Prepared for Lead Development Association, London, UK. | | | made available upon request |
| 2006 | Grosell, M., R. Gerdes, and K.V. Brix. 2006. Influence of Ca, humic acid and pH on lead accumulation and toxicity in the fathead minnow during prolonged water-borne lead exposure. <i>Comp. Biochem. Physiol.</i> 143C: 473-483. | Journal paper | doi:10.1016/j.cbpc.2006.04.014 | Available online |
| 2006 | Grosell, M., R.M. Gerdes and K.V. Brix. 2006. Chronic toxicity of lead to three freshwater invertebrates - <i>Brachionus calyciflorus</i> , <i>Chironomus tentans</i> , and <i>Lymnaea stagnalis</i> . <i>Environ. Toxicol. Chem.</i> 25(1): 97-104. | Journal paper | DOI: 10.1897/04-654R.1 | Available online |
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| | Marine (saltwater) lead | | | |
| 2017 | Church, B. G., Van Sprang, P.A., Chowdhury, M.J., and DeForest, D.K. 2017. Updated species sensitivity distribution evaluations for acute and chronic lead toxicity to saltwater aquatic life. <i>Environmental Toxicology and Chemistry</i> . | Journal paper | DOI: 10.1002/etc.3863 | Available online (No volume or page number yet) |
| 2017 | Smith, D.S. and McGeer, J. C. 2017. Impacts of Waterborne Pb to <i>Americamysis bahia</i> in a Chronic 30 day Flow-through Exposure: including analytical best practices and marine Pb solubility modelling. | Journal paper | October 2017 | Under internal review |
| 2015 | Hoang, T. 2015. Chronic Toxicity of Lead to Topsmelt (<i>Atherinops affinis</i>). Report Prepared by Loyola University for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2013 | Nadella, S.R., Tellis, M., Diamond, R., Smith, D.S., Bianchini, A., Wood, C.M. 2013. Toxicity of lead and zinc to developing mussel and sea urchin embryos: Critical tissue residues and effects of dissolved organic matter and salinity. <i>Comp. Biochem. Physiol.</i> [C]. 158:72-83. | Journal paper | doi:10.1016/j.cbpc.2013.04.004 | Available online |
| 2013 | Tellis, M.S., Lauer, M.M., Nadella, S., Bianchini, A., Wood, C.M. 2013. Sublethal mechanisms of Pb and Zn toxicity to the | Journal paper | doi:10.1016/j.aquatox.2013.11.004 | Available online |

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| | purple sea urchin (<i>Strongylocentrotus purpuratus</i>) during early development. <i>Aquat. Toxicol.</i> 146:220-229. | | | |
| 2013 | Vukov, O., Nasir, R., Cunningham, J., Smith, D.S. and McGeer, J. 2013. Impacts of Waterborne Pb to <i>Americamysis bahia</i> in a Chronic 30 day Flow-through Exposure. Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2013 | Smith, D.S., Cunningham, J., and McGeer, J. 2013. Analytical Chemistry of Marine Aqueous Pb Determination: comparison of three methods. Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Project Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2013 | Beiras, R., González, S., Trigo, N., and Tato, T. 2013. Lead full life-cycle toxicity tests with the marine copepod <i>Tisbe battagliai</i> . Report Prepared by the University of Vigo for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2012 | Beiras, R., Trigo, N., Durán, I., and Tato, T. 2012. Toxicity of Pb to early life stages of the bivalve <i>Mytilus galloprovincialis</i> and to the microalgae <i>Phaeodactylum tricornutum</i> . Report Prepared by the University of Vigo for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2012 | Beiras, R., Trigo, N., and Durán, I. 2012a. Toxicity of Pb to the sea urchin embryo bioassay with <i>Paracentrotus lividus</i> . Report Prepared by the University of Vigo for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2012 | Holtz, K. 2012. Report on the toxicity of lead to the marine macroalgae, <i>Champia Parvula</i> . Report Prepared by AquaTox for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2011 | Wood, C.M. 2011. Effects of salinity and DOC on Pb Toxicity to Marine Organisms. Report Prepared by McMaster University | Final Study Report | Contact ILA | A copy in pdf format can be |

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| | for International Lead Zinc Research Organization, Durham, NC, USA. | | | made available upon request |
| 2010 | Parametrix, 2010b. Toxicity of Lead to the Marine Flagellate, <i>Dunaliella tertiolecta</i> . Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix, 2010c. Toxicity of Lead to the Mussel (<i>Mytilus galloprovincialis</i>). Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix, 2010d. Life-Cycle Toxicity of Lead to the Marine Polychaete, <i>Neanthes arenaceodentata</i> . Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix, 2010e. Toxicity of Lead to the Oyster (<i>Crassostrea gigas</i>). Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix, 2010f. Toxicity of Lead to the Sand Dollar (<i>Dendraster excentricus</i>). Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix, 2010g. Toxicity of Lead to the Purple Sea Urchin (<i>Strongylocentrotus purpuratus</i>). Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2010 | Parametrix, 2010h. Early Life-Stage Toxicity of Lead to the Sheepshead Minnow (<i>Cyprinodon variegatus</i>). Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |

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| 2010 | Parametrix, 2010i. Toxicity of Lead to the Marine Diatom, <i>Skeletonema costatum</i> . Report Prepared for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| Terrestrial (soil) lead | | | | |
| 2017 | Oorts, K., Smolders, E., Lanno, R, and Chowdhury, M.J. 2017. Lead toxicity to soil organisms: derivation of ecological standards. <i>Environmental Toxicology & Chemistry</i> . | Journal paper | October 2017 | Manuscript under internal review |
| 2017 | Lanno, R. P., Oorts, K., Smolders, E., and Chowdhury, M.J. 2017. Effects of soil properties on the toxicity of lead to soil invertebrates. <i>Environmental Toxicology & Chemistry</i> . | Journal paper | October 2017 | Manuscript under internal review |
| 2015 | Smolders, E., Oorts, K., Peeters, S., Lanno, R., Cheyns, K. 2015. Toxicity in lead salt spiked soils to plants, invertebrates and microbial processes: unraveling effects of acidification, salt stress and ageing reactions. <i>Science of the total environment</i> , 536: 223 – 231. | Journal paper | doi:10.1016/j.scitotenv.2015.07.067 | Available online |
| 2012 | Cheyns, K., Peeters, S., Delcourt, D., Smolders, E. 2012. Lead phytotoxicity in soils and nutrient solutions is related to lead induced phosphorus deficiency. <i>Environmental pollution</i> , 164:242-247. | Journal paper | Doi: 10.1016/j.envpol.2012.01.027 | Available online |
| 2012 | Lanno, R. 2012. Toxicity of lead salts to higher plants, invertebrates, and soil microbial processes: effects of soil type and ageing after soil amendment (Collembola and earthworms). Report Prepared by Ohio State University for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2011 | Smolders, E., Cheyns, K., Peeters, S., 2011. Toxicity of lead salts to higher plants, invertebrates, and soil microbial processes: effects of soil type and ageing after soil amendment. Report Prepared by Katholieke Universiteit Leuven for International Lead Zinc Research Organization, Durham, NC, USA. | Final Study Report | Contact ILA | A copy in pdf format can be made available upon request |

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| 2009 | Buekers, J., Steen Redeker, E., Smolders, E. 2009. Lead toxicity to wildlife: Derivation of a critical blood concentration for wildlife monitoring based on literature data. Science of the total environment, 407: 3431–3438. | Journal paper | doi:10.1016/j.scitotenv.2009.01.044 | Available online |
| 2009 | Exponent, 2009. Lead Secondary Poisoning Expert Panel Workshop. Report Prepared by Exponent for International Lead Zinc Research Organization, Durham, NC, USA. | Final Workshop Report | Contact ILA | A copy in pdf format can be made available upon request |
| 2006 | Lock K., Waegeneers N., Smolders E., Criel P., Van Eeckhout H., Janssen C.R. (2006) Effect of leaching and aging on the bioavailability of lead to the springtail Folsomia candida. Environmental Toxicology and Chemistry 25:2006-2010. | Journal paper | DOI: 10.1897/05-612r.1 | |
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