MPCA Wild Rice Literature Holdings

As part of the Wild Rice Sulfate Standard Study, MPCA staffs have searched the scientific literature for pertinent reports and studies. The following citations have been reviewed by the staff and are the published resources that will be utilized as needed in the MPCA's evaluation of Minnesota's existing sulfate standard to protect wild rice. Additional citations are added to the MPCA holdings as pertinent literature is published or as it is discovered as part of the ongoing literature review.

This following list contains 861 citations that reflect the current literature holding as of 12/31/2013

Abdollahi, H. N., D.B., Seasonal temperature as a factor influencing bacterial sulfate reduction in a saltmarsh sediment. *Microbial Ecology* **1979,** *5*, (1), 73-79.

Abraham, T. J.; Salih, K. Y. M.; Chacko, J., Effects of Heavy Metals on the Filtration Rate of Bivalve Villorita cyprinoides (Hanley) var. cochinensis. *Indian Journal of Marine Sciences* **1986,** *15*, (3), 195-196.

Achtnich, C.; Bak, F.; Conrad, R., Competition for electron donors among nitrate reducers, ferric iron reducers, sulfate reducers, and methanogens in anoxic paddy soil. *Biology and Fertility of Soils* **1995,** *19*, (1), 65-72.

Ackerman, J. T.; Miles, A. K.; Eagles-Smith, C. A., Invertebrate mercury bioaccumulation in permanent, seasonal, and flooded rice wetlands within California's Central Valley. *Science of the Total Environment* **2010,** *408*, (3), 666-671.

Adams, D. D. M., Gerald; Snodgrass, William J. , Flux of reduced chemical constituents (Fe2+, Mn2 +, NH+ and CH4) and sediment oxygen demand in Lake Erie. *Hydrobiologia* **1982,** *92*, 405-414.

Adams, D.; Matisoff, G.; Snodgrass, W., Flux of reduced chemical constituents (Fe2+, Mn2+, NH inf4 sup+ and CH4) and sediment oxygen demand in Lake Erie. *Hydrobiologia* **1982,** *91-92*, (0), 405-414.

Adelman, I. R. J., Effect of Hydrogen Sulfide on Northern Pike Eggs and Sac Fry. *Trans. Am. Fish. Soc* **1970,** *99*.

Adelman, I. R. J., Toxicity of Hydrogen Sulfide to Goldfish (Carassius auratus) as Influenced by Temperature, Oxygen, and Bioassay Techniques. *Journal of the Fisheries Research Board of Canada* **1972,** *29*, (9), 1309-1317.

Adhikari, T.; Tel-Or, E.; Libal, Y.; Shenker, M., Effect of cadmium and iron on rice (Oryza sativa L.) plant in chelator-buffered nutrient solution. *Journal of plant nutrition* **2006,** *29*, (11), 1919-1940.

Aerts, R.; Chapin, F. S., The mineral nutrition of wild plants revisited: a re-evaluation of processes and patterns. *Advances in ecological research* **1999,** *30*, 1-67.

Ahsan, N.; Lee, D. G.; Lee, S. H.; Kang, K. Y.; Lee, J. J.; Kim, P. J.; Yoon, H. S.; Kim, J. S.; Lee, B. H., Excess copper induced physiological and proteomic changes in germinating rice seeds. *Chemosphere* **2007,** *67*, (6), 1182-1193.

Aiken, S., The distinct morphology and germination of the grains of two species of wild rice (Zizania, Poaceae). *Canad. Field-Nat* **1986,** *100*, 237-240.

Alexander, M. L.; Woodford, M. P.; Hotchkiss, S. C., Freshwater macrophyte communities in lakes of variable landscape position and development in northern Wisconsin, USA. *Aquatic Botany* **2008,** *88*, (1), 77-86.

Allam, A.; Hollis, J., Sulfide inhibition of oxidases in rice roots. *Phytopathology* **1972,** *62*, (6), 634.

Allam, A.; Pitts, G.; Hollis, J., Sulfide Determination in Submerged Solls With An Ion-Selective Electrode. *Soil Science* **1972,** *114*, (6), 456-467.

Am Jang; Lee, J. H.; Bhadri, P. R.; Kumar, S. A.; Timmons, W.; Beyette Jr, F. R.; Papautsky, I.; Bishop, P. L., Miniaturized redox potential probe for in situ environmental monitoring. *Environmental science & technology* **2005,** *39*, (16), 6191-6197.

Amirbahman, A.; Pearce, A. R.; Bouchard, R. J.; Norton, S. A.; Steven Kahl, J., Relationship between hypolimnetic phosphorus and iron release from eleven lakes in Maine, USA. *Biogeochemistry* **2003,** *65*, (3), 369-386.

Anderson, B. G., The Toxicity Thresholds of Various Sodium Salts Determined by the Use of Daphnia magna. *Sewage Works* **1946,** *18*.

Anderson, B. G.; T.F., A.; Chandler, D. C.; Jahoda, W. J. *The Evaluation of Aquatic Invertebrates as Assay Organisms for the Determination of the Toxicity of Industrial Wastes*; American Petroleum Institute Project: Columbus Ohio, 1948.

Anderson, M. P., Heat as a ground water tracer. *Ground water* **2005,** *43*, (6), 951-968.

Anderson, M. R.; Kalff, J., Submerged aquatic macrophyte biomass in relation to sediment characteristics in ten temperate lakes*. *Freshwater Biology* **1988,** *19*, (1), 115-121.

Anderson, R. R.; Brown, R. G.; Rappleye, R. D., Water quality and plant distribution along the upper Patuxent River, Maryland. *Chesapeake Science* **1968,** *9*, (3), 145-156.

Anderson, R., Wild rice: its history, current production, use. *Rice J* **1978,** *81*, (7), 34-38.

Anderson, R., Wild rice: nutritional review. *Cereal Chemistry* **1976,** *53*, (6), 949-955.

Anibas, C.; Buis, K.; Verhoeven, R.; Meire, P.; Batelaan, O., A simple thermal mapping method for seasonal spatial patterns of groundwater–surface water interaction. *Journal of Hydrology* **2011,** *397*, (1), 93-104.

Ankley, G. T.; Bennett, R. S.; Erickson, R. J.; Hoff, D. J.; Hornung, M. W.; Johnson, R.D.; Mount, D. R.; Nichols, J. W.; Russom, C. L.; Schmieder, P. K., Adverse outcome pathways: A conceptual framework to support ecotoxicology research and risk assessment. *Environmental Toxicology and Chemistry* **2010,** *29*, (3), 730-741.

Ankley, G. T.; Di Toro, D. M.; Hansen, D. J.; Berry, W. J., Technical basis and proposal for deriving sediment quality criteria for metals. *Environmental Toxicology and Chemistry* **1996,** *15*, (12), 2056-2066.

Anonymous, Wild Rice Harvest. *Minnesota Conservation Volunteer* 1940.

Arambasic, M. B.; Bjelic, S.; Subakov, G., Acute Toxicity of Heavy Metals (Copper, Lead, Zinc), Phenol and Sodium on Allium cepa L.., Lepidium sativum L. and Daphnia magna St.: Comparative Investigations and the Practical Applications. *Water Resources* **1995,** *29*, (2), 497-503.

Archibold, O., The effect of stand thinning and straw management on the productivity of lake grown wild rice in Saskatchewan. *Journal of Aquatic Plant Management* **1990,** *28*, (1), 46-49.

Archibold, O.; Weichel, B., Variation in wild rice (Zizania palustris) stands across northern Saskatchewan. *Canadian journal of botany* **1986,** *64*, (6), 1204-1211.

Armstrong, J.; Armstrong, W., Rice: sulfide-induced barriers to root radial oxygen loss, Fe2+ and water uptake, and lateral root emergence. *Annals of Botany* **2005,** *96*, (4), 625-638.

Arts, G.; Davies, J.; Dobbs, M.; Ebke, P.; Hanson, M.; Hommen, U.; Knauer, K.; Loutseti, S.; Maltby, L.; Mohr, S., AMEG: the new SETAC advisory group on aquatic macrophyte ecotoxicology. *Environmental Science and Pollution Research* **2010,** *17*, (4), 820-823.

Asao, T., *Hydroponics – A Standard Methodology for Plant Biological Researches.* InTech: Rijeka, Croatia, 2012.

Atkins, T.; Lee, P.; Stewart, J., Growth of wild rice (*Z. palustris* L.) in fertilized flocculent sediments. *Journal of environmental management* **1992,** *35*, (3), 217-228.

Atkins, T.; Thomas, A.; Stewart, J., The germination of wild rice seed in response to diurnally fluctuating temperatures and after-ripening period. *Aquatic botany* **1987,** *29*, (3), 245-259.

Authority, T., Wild Rice Monitoring and Abundance in the 1854 Ceded Territory (1998-2011). In 2012.

Authority, T., Wild Rice Resource Guide. In Third ed.; Authority, T., Ed. 2009.

Axelrad, D. M.; Lange, T.; Gabriel, M.; Atkeson, T. D.; Pollman, C. D.; Orem, W. H.; Scheidt, D. J.; Kalla, P. I.; Frederick, P. C.; Gilmour, C. C., B: Mercury and Sulfur Monitoring, Research and Environmental Assessment in South Florida. *South Florida Environmental Report* **2009**.

Bagarinao, T., Sulfide as an environmental factor and toxicant: tolerance and adaptations in aquatic organisms. *Aquatic Toxicology* **1992,** *24*, (1-2), 21-62.

Bailey, K. D.; Frohn, R. C.; Beck, R. A.; Price, M. W., Remote sensing analysis of wild rice production using Landsat 7 for the Leech Lake Band of Chippewa in Minnesota. *Photogrammetric engineering and remote sensing* **2001,** *67*, (2), 189-192.

Bailey-Serres, J.; Voesenek, L., Flooding stress: acclimations and genetic diversity. *Annu. Rev. Plant Biol.* **2008,** *59*, 313-339.

Bajer, P. G.; Sullivan, G.; Sorensen, P. W., Effects of a rapidly increasing population of common carp on vegetative cover and waterfowl in a recently restored Midwestern shallow lake. *Hydrobiologia* **2009,** *632*, (1), 235-245.

Balasta, M. L. F. C.; Perez, C. M.; Juliano, B. O.; Vlllareal, C. P.; Lott, J. N. A.;Roxas, D. B., Effects of silica level on some properties of Oryza sativa straw and hull. *Canadian journal of botany* **1989,** *67*, (8), 2356-2363.

Baldwin, A. H.; Pendelton, F. N., Interactive Effects of Animal Disturbance and Elevation on Vegetation of a Tidal Freshwater Marsh. *Coastal and Estuarine Research Federation* **2003,** *26*, (4), 905-915.

Baldwin, A. H.; Sharpe, P. J. *Responses of Species-Rich Tidal Freshwater Wetlands to Sea Level Rise: a Mesocosm Study*; Maryland Water Resources Research Center: 2009.

Baldwin, D. S.; Fraser, M., Rehabilitation options for inland waterways impacted by sulfidic sediments–a synthesis. *Journal of environmental management* **2009,** *91*, (2), 311-319.

Banach, A.; Banach, K.; Peters, R.; Jansen, R.; Visser, E.; Stepniewska, Z.; Roelofs, J.; Lamers, L., Effects of long-term flooding on biogeochemistry and vegetation development in floodplains; a mesocosm experiment to study interacting effects of land use and water quality. *Biogeosciences* **2009,** *6*, (7), 1325-1339.

Barko, J. W.; Smart, R. M., Sediment-related mechanisms of growth limitation in submersed macrophytes. *Ecology* **1986**, 1328-1340.

Baskin, J. M.; Baskin, C. C., A classification system for seed dormancy. *Seed Science Research* **2004,** *14*, (01), 1-16.

Baskina, J., M.; Baskin, Carol C., A classification system for seed dormancy. *Seed Science Research* **2004,** *14*, 1-16.

Bavin, T.; Berndt, M., Sources and Fate of Sulfate in NE Minnesota Watersheds: A Minerals Coordinating Committee Progress Report. In Resources, M. D. o. N., Ed. 2008.

Baxter, C.; Hauer, F. R.; Woessner, W. W., Measuring groundwater–stream water exchange: new techniques for installing minipiezometers and estimating hydraulic conductivity. *Transactions of the American Fisheries Society* **2003,** *132*, (3), 493-502.

Beatty, D. D. An Experimental Study of the Toxicity of Sodium Bicarbonate, Sodium Chloride, and Sodium Sulfate to Rainbow Trout. University of Wyoming, Laramie, 1959.

Beauchamp, R.; Bus, J. S.; Popp, J. A.; Boreiko, C. J.; Andjelkovich, D. A.; Leber, P., A critical review ofthe literature on hydrogen sulfide toxicity. *CRC Critical Reviews in Toxicology* **1984,** *13*, (1), 25-97.

Beck, B. F. Geochemical Controls on Production and Transport of Methylmercury in the St. Louis River Estuary. University of Minnesota - Duluth, University of Minnesota Graduate School, 2013.

Beck, M. W.; Hatch, L. K.; Vondracek, B.; Valley, R. D., Development of a macrophyte-based index of biotic integrity for Minnesota lakes. *Ecological Indicators* **2010,** *10*, (5), 968-979.

Becker, M.; Asch, F., Iron toxicity in rice—conditions and management concepts. *Journal of Plant Nutrition and Soil Science* **2005,** *168*, (4), 558-573.

Becker, S. J.; Lao, M. T.; Segura, M. L., Effect and empirical models of nitrogen uptake under different nitrogen sources in Dieffenbachia amoena. *HortScience* **2008,** *43*, (2), 575-579.

Bennett, J. P.; Chiriboga, E.; Coleman, J.; Waller, D. M., Heavy metals in wild rice from northern Wisconsin. *Science of the total environment* **2000,** *246*, (2), 261-269.

Benoit, J. M.; Gilmour, C. C.; Mason, R. P.; Heyes, A., Sulfide controls on mercury speciation and bioavailability to methylating bacteria in sediment pore waters. *Environmental Science & Technology* **1999,** *33*, (6), 951-957.

Benzecry, A., Greenhouse Experimental Methods Towards in-situ Burial and Restoration of Contaminated Sites in Submerged Wetlands. *American Journal of Environmental Engineering* **2012,** *2*, (5), 114-122.

Berezin, I.; Elazar, M.; Gaash, R.; Avramov-Mor, M.; Shaul, O., The Use of Hydroponic Growth Systems to Study the Root and Shoot Ionome of Arabidopsis thaliana. In *Hydroponics - A Standard Methodology for Plant Biological Researches*, Asao, D. T., Ed. InTech: Manhattan, New York 2012; pp 135-152.

Berjak, P.; Pammenter, N., From Avicennia to Zizania: seed recalcitrance in perspective. *Annals of Botany* **2008,** *101*, (2), 213-228.

Berndt, M.; Bavin, T. *On the Cycling of Sulfur and Mercury in the St. Louis River Watershed, Northeastern Minnesota*; Minnesota Department of Natural Resources: 2012.

Berry, W.; Knight, S., Plant culture in hydroponics. *Plant growth chamber handbook'.(Eds RW Langhans, TW Tibbitts) pp* **1997**, 119-131.

Berryman, E. M.; Venterea, R. T.; Baker, J. M.; Bloom, P. R.; Elf, B., Phosphorus and Greenhouse Gas Dynamics in a Drained Calcareous Wetland Soil in Minnesota. *Journal of environmental quality* **2009,** *38*, (5), 2147-2158.

Beutel, M. W.; Leonard, T. M.; Dent, S. R.; Moore, B. C., Effects of aerobic and anaerobic conditions on P, N, Fe, Mn, and Hg accumulation in waters overlaying profundal sediments of an oligo-mesotrophic lake. *Water research* **2008,** *42*, (8), 1953-1962.

Bewley, J. D., Seed germination and dormancy. *The Plant Cell* **1997,** *9*, 1055-1066.

Bianchini, A.; Wood, C. M., Does sulfide or water hardness protect against chronic silver toxicity in Daphnia magna? A critical assessment of the acute-to-chronic toxicity ratio for silver. *Ecotoxicology & Environmental Safety* **2008,** *71*, (1), 32-40.

Biesboer, D. D., Understanding Threats, Genetic Diversity, and Conservation Options for Wild Rice. In *Environment and Natural Resources Trust Fund (ENRTF) M.L. 2011 Work Plan*, 2011.

Billon, G.; Ouddane, B.; Boughriet, A., Artefacts in the speciation of sulfides in anoxic sediments. *Analyst* **2001,** *126*, (10), 1805-1809.

Blomqvist, S.; Gunnars, A.; Elmgren, R., Why the limiting nutrient differs between temperate coastal seas and freshwater lakes: A matter of salt. *Limnology and Oceanography* **2004**, 2236-2241.

Boerngen, J. G. S.; Hansford, T. *Chemical analyses of soils and other surficial materials of the conterminous United States*; Open-file Report 81-197; 1981.

Bogdan, K.; Schenk, M. K., Arsenic in rice (Oryza sativa L.) related to dynamics of arsenic and silicic acid in paddy soils. *Environmental science & technology* **2008,** *42*, (21), 7885-7890.

Boland, W.; John Burk, C., Some effects of acidic growing conditions on three emergent macrophytes:< i> Zizania aquatica, Leersia oryzoides</i> and< i> Peltandra virginica</i>. *Environmental Pollution* **1992,** *76*, (3), 211-217.

Boomer, K. M. B.; Bedford, B. L., Groundwater-induced redox-gradients control soil properties and phosphorus availability across four headwater wetlands, New York, USA. *Biogeochemistry* **2008,** *90*, (3), 259-274.

Bottomley, E.; Bayly, I., A sediment porewater sampler used in root zone studies of the submerged macrophyte, Myriophyllum spicatum. *Limnology and oceanography* **1984**, 671-673.

Boutin, C.; White, A. L.; Carpenter, D., Measuring variability in phytotoxicity testing using crop and wild plant species. *Environmental Toxicology and Chemistry* **2010,** *29*, (2), 327-337.

Bowden, W. B., The biogeochemistry of nitrogen in freshwater wetlands. *Biogeochemistry* **1987,** *4*, (3), 313-348.

Bowles, K. C.; Ernste, M. J.; Kramer, J. R., Trace sulfide determination in oxic freshwaters. *Analytica chimica acta* **2003,** *477*, (1), 113-124.

Boyd, M. S., C.; Surette, J.;Therriault, I.; Hamilton, S. , Holocene paleoecology of a wild rice (Zizania sp.) lake in Northwestern Ontario, Canada. *Journal of Paleolimnology* **2013,** *50*, 365–377.

Brady, K. J., A Day Wild Ricing at Deep Portage. *Minnesota Conservation Volunteer* 1983.

Brain, R. A.; Solomon, K. R., A protocol for conducting 7-day daily renewal tests with Lemna gibba. *Nature protocols* **2007,** *2*, (4), 979-987.

Brandão, A. D.; Sodek, L., Nitrate uptake and metabolism by roots of soybean plants under oxygen deficiency. *Brazilian Journal of Plant Physiology* **2009,** *21*, (1), 13-23.

Breining, G., The Puzzling Loss of Wild Rice. *Minnesota Conservation Volunteer* 1993.

Brendel, P. J.; Luther, G. W. I. I. I., Development of a gold amalgam voltammetric microelectrode for the determination of dissolved Fe, Mn, O2, and S (-II) in porewaters of marine and freshwater sediments. *Environmental Science & Technology* **1995,** *29*, (3), 751-761.

Bringmann, G.; Kuhn, R., Comparative Water-Toxicological Investigations on Bacteria, Algae, and Daphnia. *Gesundheits-Ingenieur* **1959,** *80*, 115–120.

Brioukhanov, A. P., L.; Dolla, A. , Antioxidative defense systems of anaerobic sulfate-reducing microorganisms. *Current Research, Technology, and Education Topics in Applied Microbiology and Microbial Biotechnology* **2010**.

Brix, H.; Lorenzen, B.; Mendelssohn, I. A.; McKee, K. L.; Miao, S. L., Can differences in phosphorus uptake kinetics explain the distribution of cattail and sawgrass in the Florida Everglades? *BMC plant biology* **2010,** *10*, (1), 23.

Brix, H.; Sorrell, B. K.; Orr, P. T., Internal pressurization and convective gas flow in some emergent freshwater macrophytes. *Limnology and Oceanography* **1992**, 1420-1433.

Brix, K. V.; Volosin, J. S.; Adams, W. J.; Reash, R. J.; Carlton, R. C.; McIntyre, D. O.*Effect of Sulfate Concentration on Acute Toxicity of Selenite and Selenate to Invertebrates and Fish*; Electric Power Research Inst.(EPRI), Palo Alto, CA: Great Lakes Environmental Center, 1998; p 47.

Brix, K. V.; Volosin, J. S.; Adams, W. J.; Reash, R. J.; Carlton, R. G.; McIntyre, D.O., Effects of Sulfate on the Acute Toxicity of Selenate to Freshwater Organisms. *Environmental Toxicology & Chemistry* **2001,** *20*, (5), 1037-1045.

Broderius, S. J. S., Lloyd L. Jr. , Effect of Hydrogen Sulfide on Fish and Invertebrates. In (EPA), U. S. E. P.A., Ed. Office of Research and Develepment: Duluth, Minnesota, 1976.

Broderius, S. J.; Smith Jr, L. L.; Lind, D. T., Relative toxicity of free cyanide and dissolved sulfide forms to the fathead minnow (Pimephales promelas). *Journal of the Fisheries Board of Canada* **1977,** *34*, (12), 2323-2332.

Brumbaugh, W. G.; Hammerschmidt, C. R.; Zanella, L.; Rogevich, E.; Salata, G.; Bolek, R., Interlaboratory comparison of measurements of acid-volatile sulfide and simultaneously extracted nickel in spiked sediments. *Environmental Toxicology and Chemistry* **2011,** *30*, (6), 1306-1309.

Burgin, A. J.; Hamilton, S. K., Have we overemphasized the role of denitrification in aquatic ecosystems? A review of nitrate removal pathways. *Frontiers in Ecology and the Environment* **2007,** *5*, (2), 89-96.

Burgin, A. J.; Hamilton, S. K., NO 3−-driven SO 4 2− production in freshwater ecosystems: implications for N and S cycling. *Ecosystems* **2008,** *11*, (6), 908-922.

Burgin, A. J.; Yang, W. H.; Hamilton, S. K.; Silver, W. L., Beyond carbon and nitrogen: how the microbial energy economy couples elemental cycles in diverse ecosystems. *Frontiers in Ecology and the Environment* **2011,** *9*, (1), 44-52.

Burnson, B., The Taming of Wild Rice. *Minnesota Conservation Volunteer* 1972.

Burnson, B., Wild Rice: Wilderness Staple Through the Ages. *Minnesota Conservation Volunteer* 1981.

Busch, J. M., Irving A.; Lorenzen, Bent; Brix, Hans; Miao, ShiLi A rhizotron to study root growth under flooded conditions tested with two wetland Cyperaceae **2006**.

Cade, B. S.; Noon, B. R., A gentle introduction to quantile regression for ecologists. *Frontiers in Ecology and the Environment* **2003,** *1*, (8), 412-420.

Cairns, J., Jr.; Scheier, A., The Relationship of Bluegill Sunfish Body Size to Tolerance for Some Common Chemicals. In *Proceedings of the Thirteenth Industrial Waste Conference* Engineering Technical Reports Collection, Purdue University: Purdue University, West Lafayette, IN, 1959; Vol. 1959, pp 243-252.

Calabrese, E. J., Hormesis: why it is important to toxicology and toxicologists. *Environmental Toxicology and Chemistry* **2009,** *27*, (7), 1451-1474.

Campana, O. B., J.;Rodriguez, A. , Identification of a Potential Toxic Hot Spot Associated with AVS Spatial and Seasonal Variation. *Archives of Environmental Contaminants and Toxicology* **2009,** *56*, 415-425.

Campiranon, S.; Koukkari, W. L., Germination of wild rice, Zizania aquatica, seeds and the activity of alcohol dehydrogenase in young seedlings. *Physiologia Plantarum* **2006,** *41*, (4), 293-297.

Canfield, D. E.; Stewart, F. J.; Thamdrup, B.; De Brabandere, L.; Dalsgaard, T.; Delong, E. F.; Revsbech, N. P.; Ulloa, O., A cryptic sulfur cycle in oxygen-minimum–zone waters off the Chilean coast. *Science* **2010,** *330*, (6009), 1375-1378.

Cao, T.; Xie, P.; Ni, L.; Wu, A.; Zhang, M.; Wu, S.; Smolders, A., The role of NH+ 4 toxicity in the decline of the submersed macrophyte Vallisneria natans in lakes of the Yangtze River basin, China. *Marine and freshwater research* **2007,** *58*, (6), 581-587.

Capen, R.; LeClerc, J., Wild rice and its chemical composition. *J. Agr. Res* **1948,** *77*, (3), 65.

Capers, R. S., Six years of submerged plant community dynamics in a freshwater tidal wetland. *Freshwater Biology* **2003,** *48*, (9), 1640-1651.

Caraco, N.; Cole, J.; Likens, G., Evidence for sulphate-controlled phosphorus release from sediments of aquatic systems. *Nature* **1989,** *341*, 316-318.

Caraco, N.; Cole, J.; Likens, G., Sulfate control of phosphorus availability in lakes. *Hydrobiologia* **1993,** *253*, (1), 275-280.

Cardwell, V.; Oelke, E.; Elliott, W., Seed dormancy mechanisms in wild rice (Zizania aquatica). *Agronomy Journal* **1978,** *70*, (3), 481-484.

Carlson, P. R. J. Y., Laura A.; Barber, Timothy R. , Relationship of Sediment Sulfide To Mortality of Thalassia Testudinum in Florida Bay. *Bulletin of Marine Science* **1994,** *54*, (3), 733-746.

Carson, T. L. The effects of sediment nutrient variation, water depth, and emergent aquatic perennials on wild rice (Zizania palustris) production at the Rice Lake National Wildlife Refuge. University of Minnesota, 2002.

Chabbi, A. M., Karen L.;Mendelssohn, Irving A. , Fate of Oxygen Losses from Typha domingensis (Typhaceae) and Cladium jamaicense (Cyperaceae) and Consequences for Root Metabolism. *American Journal of Botany* **2000,** *87*, (8), 1081-1090.

Chamberlin, T. C., The method of multiple working hypotheses. *Science* **1965,** *15*, (366), 92-96.

Chambliss, C. E., *The Botany and History of Zizania aquatica L.(" wild rice").* US Government Printing Office: Washington, D.C., 1941.

Chambliss, C. E., Wild Rice. In Agriculture, U. S. D. o., Ed. 1922.

Chapin III, F. S., The mineral nutrition of wild plants. *Annual review of ecology and systematics* **1980**, 233-260.

Chappaz, A.; Gobeil, C.; Tessier, A., Geochemical and anthropogenic enrichments of Mo in sediments from perennially oxic and seasonally anoxic lakes in Eastern Canada. *Geochimica et Cosmochimica Acta* **2008,** *72*, (1), 170-184.

Charriau, A. L., Ludovic; Gao, Yue; Leermakers, Martine; Baeyens, Willy; Ouddane, Baghdad; Billon, Gabriel Trace metal behaviour in riverine sediments: Role of organic matter and sulfides. *Applied Geochemistry* **2011,** *26*, 80-90.

Chen, C. M.; Yu, S. C.; Liu, M. C., Use of Japanese Medaka (Oryzias latipes) and Tilapia (Oreochromis mossambicus) in Toxicity Tests on Different Industrial Effluents in Taiwan. *Archives of Environmental Contamination & Toxicology* **2001,** *40*, (3), 363-370.

Chen, X.; Driscoll, C. T., Watershed land use controls on chemical inputs to Lake Ontario embayments. *Journal of environmental quality* **2009,** *38*, (5), 2084-2095.

Chen, Z.; Wu, S.; Braeckevelt, M.; Paschke, H.; Kästner, M.; Köser, H.; Kuschk, P., Effect of vegetation in pilot-scale horizontal subsurface flow constructed wetlands treating sulphate rich groundwater contaminated with a low and high chlorinated hydrocarbon. *Chemosphere* **2012**.

Chevalier, J. R., Toxicity of Sodium Sulfide to Common Shiners-Dynamic Bioassay. *Technical Association of the Pulp and Paper Industry (TAPPI)* **1973,** *56*, (5).

Choi, J. H.; Park, S. S.; Jaffé, P. R. In *Effect of Wetland Plants on the Dynamics of Sulfur Species and Trace Metals in the Sediments*, 2004; 2004; pp 400-405.

Choi, J. H.; Park, S. S.; Jaffé, P. R., Simulating the dynamics of sulfur species and zinc in wetland sediments. *Ecological modelling* **2006,** *199*, (3), 315-323.

Choi, J. H.; Park, S. S.; Jaffé, P. R., The effect of emergent macrophytes on the dynamics of sulfur species and trace metals in wetland sediments. *Environmental Pollution* **2006,** *140*, (2), 286-293.

Choudhury, A.; Kennedy, I., Nitrogen fertilizer losses from rice soils and control of environmental pollution problems. *Communications in soil science and plant analysis* **2005,** *36*, (11-12), 1625-1639.

Chow-Fraser, P., Ecosystem response to changes in water level of Lake Ontario marshes: lessons from the restoration of Cootes Paradise Marsh. *Hydrobiologia* **2005,** *539*, (1), 189-204.

Chow-Fraser, P.; Lougheed, V.; Le Thiec, V.; Crosbie, B.; Simser, L.; Lord, J., Long-term response of the biotic community to fluctuating water levels and changes in water quality in Cootes Paradise Marsh, a degraded coastal wetland of Lake Ontario. *Wetlands Ecology and Management* **1998,** *6*, (1), 19-42.

Clark, J.; Ortego, L. S.; Fairbrother, A., Sources of variability in plant toxicity testing. *Chemosphere* **2004,** *57*, (11), 1599-1612.

Clarkson, D. T.; Hanson, J. B., The mineral nutrition of higher plants. *Annual review of plant physiology* **1980,** *31*, (1), 239-298.

Colmer, T. D.; Gibberd, M. R.; Wiengweera, A.; Tinh, T. K., The barrier to radial oxygen loss from roots of rice (Oryza sativa L.) is induced by growth in stagnant solution. *Journal of Experimental Botany* **1998,** *49*, (325), 1431-1436.

Colmer, T., Long-distance transport of gases in plants: a perspective on internal aeration and radial oxygen loss from roots. *Plant, Cell & Environment* **2003,** *26*, (1), 17-36.

Colmer, T.; Voesenek, L., Flooding tolerance: suites of plant traits in variable environments. *Functional Plant Biology* **2009,** *36*, (8), 665-681.

Conant Jr, B., Delineating and quantifying ground water discharge zones using streambed temperatures. *Groundwater* **2004,** *42*, (2), 243-257.

Connell, W.; Patrick Jr, W., Sulfate reduction in soil: Effects of redox potential and pH. *Science* **1968,** *159*, 86-87.

Constantz, J., Heat as a tracer to determine streambed water exchanges. *Water Resources Research* **2008,** *44*, (4), W00D10.

Constantz, J.; Niswonger, R. G.; Stewart, A. E., Analysis of Temperature Gradients to Determine Stream Exchanges with Ground Water. In Interior, U. D. o.; Survey, U. G., Eds. 2008; Vol. Techniques and Methods Chapter 4-D2.

Cook, R. B.; Kelley, C. A.; Kingston, J. C.; Kreis, R. G., Chemical limnology of soft water lakes in the Upper Midwest. *Biogeochemistry* **1987,** *4*, (2), 97-117.

Cook, R. B.; Kelly, C. A., Sulphur Cycling and Fluxes in Temperate Dimictic Lakes. In *Sulphur Cycling on the Continents: Wetlands, Terrestrial Ecosystems, and Associated Water Bodies*, 1 ed.; Howarth, R. W. S. J. W. B. I., M. V., Ed. Wiley: 1992.

Cormier, S. M.; Paul, J. F.; Spehar, R. L.; Shaw-Allen, P.; Berry, W. J.; Suter, G. W., Using field data and weight of evidence to develop water quality criteria. *Integrated Environmental Assessment and Management* **2008,** *4*, (4), 490-504.

Cormier, S. M.; Suter II, G. W.; Norton, S. B., Causal characteristics for ecoepidemiology. *Human and Ecological Risk Assessment* **2010,** *16*, (1), 53-73.

Cottingham, K. L.; Lennon, J. T.; Brown, B. L., Knowing when to draw the line: designing more informative ecological experiments. *Frontiers in Ecology and the Environment* **2005,** *3*, (3), 145-152.

Counts, R. L. Factors influencing patterns of variation in some morphometric characteristics of wild rice populations in northern Ontario. University of Manitoba, Winnipeg, Manitoba, 1987.

Counts, R. L., Phenotypic plasticity and genetic variability in annual Zizania spp. along a latitudinal gradient. *Canadian journal of botany* **1992,** *71*, (1), 145-154.

Counts, R.; Lee, P., Germination and early seedling growth in some northern wild rice (Zizania palustris) populations differing in seed size. *Canadian journal of botany* **1991,** *69*, (4), 689-696.

Counts, R.; Lee, P., Patterns of variation in Ontario wild rice (*Zizania aquatica* L.). I. The influence of some climatic factors on the differentiation of populations. *Aquatic botany* **1987,** *28*, (3), 373-392.

Counts, R.; Lee, P., Patterns of variation in Ontario wild rice (*Zizania aquatica* L.). 2. Differential responses of populations to varying cultivation conditions. *Aquatic botany* **1988,** *31*, (1), 23-36.

Counts, R.; Lee, P., Patterns of variation in Ontario wild rice (*Zizania aquatica* L.). 3. Similarity between source and introduced populations pairs under experimental and field conditions. *Aquatic botany* **1988,** *31*, (1), 37-55.

Counts, R.; Lee, P., patterns of variation in Ontario wild rice (*Zizania aquatica* L.) 4. Influence of regional and local environmental factors on variation within and among field populations. *Aquatic botany* **1990,** *36*, (2), 193-205.

Crane, M.; Newman, M. C., What level of effect is a no observed effect? *Environmental Toxicology and Chemistry* **2000,** *19*, (2), 516-519.

Cregan, J. L.; Porter, R.; Biesboer, D. D., Wild Rice Pollen Travel (C03-cregan140607-Poster). In 2002.

Crocker, S.; Beaudoin, M.; Kaufman, A.; Morgan, M., The effect of salinity on the growth rate of Zizania palustris in controlled and natural settings. In University of Michigan (UMBS): 2008; p 22.

Cross, T. K.; McInerny, M. C., *Relationships between aquatic plant cover and fish populations based on Minnesota lake survey data.* Minnesota Department of Natural Resources, Division of Fish and Wildlife, Fisheries Management Section: 2006.

Dahl, J. M., Tamarac National Wildlife Refuge. *Minnesota Conservation Volunteer* 1955.

Dalrymple, B. R. Ecological Limitations for Southern Wild Rice Associated with Backwater Lakes of the Illinois and Upper Mississippi River Valleys. Missouri State University, 2008.

D'Angelo, E. M.; Reddy, K., Regulators of heterotrophic microbial potentials in wetland soils *Soil Biology and Biochemistry* **1999,** *31*, (6), 815-830.

Das, P.; Sa, J. H.; Kim, K. H.; Jeon, E. C., Effect of fertilizer application on ammonia emission and concentration levels of ammonium, nitrate, and nitrite ions in a rice field. *Environmental monitoring and assessment* **2009,** *154*, (1), 275-282.

David, M. B.; Mitchell, M. J., Sulfur constituents and cycling in waters, seston, and sediments of an oligotrophic lake. *Limnology and Oceanography* **1985**, 1196-1207.

Davies, T. D.; Hall, K. J., Importance of Calcium in Modifying the Acute Toxicity of Sodium Sulphate to Hyalella azteca and Daphnia magna. *Environ. Toxicol. Chem.* **2007,** *26*, (6), 1243-1247.

Davison, W., Iron and manganese in lakes. *Earth-Science Reviews* **1993,** *34*, (2), 119-163.

Day, W.; Lee, P., Ecological relationships of wild rice, Zizania aquatica. 8. Classification of sediments. *Canadian Journal of Botany* **1989,** *67*, (5), 1381-1386.

Day, W.; Lee, P., Ecological relationships of wild rice, Zizania aquatica. 9. Production in organic-flocculent sediments. *Canadian Journal of Botany* **1990,** *68*, (7), 1542-1548.

Day, W.; Lee, P., Mineral deficiencies of wild rice grown in flocculent sediments. *Journal of Aquatic Plant Management* **1990,** *28*, 84-88.

DB Environmental, I. *Task 2 Final Report: Laboratory Incubations for Screening the Effects of Sulfate on Organic Matter Decomposition and the Release of Phosphorus*; Contract #: 4600001324; 2009.

De Gusseme, B.; De Schryver, P.; De Cooman, M.; Verbeken, K.; Boeckx, P.; Verstraete, W.; Boon, N., Nitrate-reducing, sulfide-oxidizing bacteria as microbial oxidants for rapid biological sulfide removal. *FEMS microbiology ecology* **2008,** *67*, (1), 151-161.

Dean, W. E.; Neff, B. P.; Rosenberry, D. O.; Winter, T. C.; Parkhurst, R., The Significance of Ground Water to the Accumulation of Iron and Manganese in the Sediments of Two Hydrologically Distinct Lakes in North-Central Minnesota: A Geological Perspective. *Ground Water* **2003,** *41*, (7), 951-963.

DeDatta, S. K., *Principles and Practices of Rice Production.* John Wiley & Sons: New York, NY, 1981; p 618

Degryse, F.; Verma, V.; Smolders, E., Mobilization of Cu and Zn by root exudates of dicotyledonous plants in resin-buffered solutions and in soil. *Plant and soil* **2008,** *306*, (1), 69-84.

Delaune, R. D. S., C. J.; Patrick, W.H. , Relationship of Marsh Elevation, Redox Potential, and Sulfide to Spartina alterniflora Productivity. *Soil Science Society of America Journal* **1983,** *47*, 930-935.

DeLaune, R.; Pezeshki, S., Plant Functions in Wetland and Aquatic Systems: Influence of Intensity and Capacity of Soil Reduction. *The Scientific World Journal* **2001,** *1*.

DeVries, C. R.; Wang, F., In situ two-dimensional high-resolution profiling of sulfide in sediment interstitial waters. *Environmental science & technology* **2003,** *37*, (4), 792-797.

Dhillon, K.; Dhillon, S., Selenium accumulation by sequentially grown wheat and rice as influenced by gypsum application in a seleniferous soil. *Plant and soil* **2000,** *227*, (1), 243-248.

Di Salvatore, M.; Carafa, A.; Carratù, G., Assessment of heavy metals phytotoxicity using seed germination and root elongation tests: A comparison of two growth substrates. *Chemosphere* **2008,** *73*, (9), 1461-1464.

Diáková, K.; Holcová, V.; Šíma, J.; Dušek, J., The distribution of iron oxidation states in a constructed wetland as an indicator of its redox properties. *Chemistry & biodiversity* **2006,** *3*, (12), 1288-1300.

Dickinson, D., A Selected and Annotated Bibliography on Wild Rice. *The Plains Anthropologist* **1968,** *13*, (40), 90-99.

Dierberg, F. E.; DeBusk, T. A.; Larson, N. R.; Kharbanda, M. D.; Chan, N.; Gabriel, M. C., Effects of sulfate amendments on mineralization and phosphorus release from south Florida (USA) wetland soils under anaerobic conditions. *Soil Biology and Biochemistry* **2011,** *43*, (1), 31-45.

District, S. F. W. M. In *Second Annual Workshop on Mercury and Sulfur in South Florida Wetlands Conference Agenda*, Second Annual Workshop on Mercury and Sulfur in South Florida Wetlands, West Palm Beach, Florida, 2009; West Palm Beach, Florida, 2009.

District, S. F. W. M.; Protection, F. D. o. E.; Survey, U. S. G. In *Draft Notes from the Second Annual Workshop on Mercury and Sulfur in South Florida Wetlands*, West Palm Beach, Florida, 2009; West Palm Beach, Florida, 2009.

Dobbins, L.; Lewis, M.; Sankula, S.; Thursby, G., Exploration of Methods for Characterizing Effects of Chemical Stressors to Aquatic Plants. In 2010.

Dolla, A. F., Marjorie; Dermoun, Zorah Oxygen defense in sulfate-reducing bacteria. *Journal of Biotechnology* **2006,** *126*, 87-100.

Dore, W. G., *Wild-Rice*. 1969.

Dorer, R. J., Planting Vegetation to Attract Waterfowl. *Minnesota Conservation Volunteer* 1945.

Dornblaser, M.; Giblin, A. E.; Fry, B.; Peterson, B. J., Effects of sulfate concentration in the overlying water on sulfate reduction and sulfur storage in lake sediments. *Biogeochemistry* **1994,** *24*, (3), 129-144.

Dowden, B. F., Cumulative Toxicities of Some Inorganic Salts to Daphnia magna as Determined by Median Tolerance Limits. *Proceedings of the Louisiana Academy of Sciences* **1961,** *23*, 77-85.

Dowden, B. F.; Bennett, H. J., Toxicity of Selected Chemicals to Certain Animals. *J. Water Pollut. Control Fed.* **1965,** *37*, (9), 1308-1316.

Doyle, R. W., Identification and solubility of iron sulfide in anaerobic lake sediment. *American Journal of Science* **1968,** *266*, (10), 980-994.

Drevnick, P. E.; Otter, R. R.; Gorski, P. R.; Long, D. T.; Canfield, D. E.; Oris, J. T., Lake-specific responses in sedimentary sulfur after copper sulfate additions to Michigan Lakes. *Lakes and Reservoirs: Research and Management* **2009,** *14*, 193-201.

Drewes, A. D.; Silbernagel, J., Uncovering the spatial dynamics of wild rice lakes, harvesters and management across Great Lakes landscapes for shared regional conservation. *Ecological Modelling* **2011**.

Driscoll, C. T., The Dynamics of Mercury, Sulfur and Nitrate in Mercury Contaminated Onandaga Lake, NY. In 2009.

Dundas, L. H., Rice Lake National Refuge. *Minnesota Conservation Volunteer* 1955.

Dunnette, D. A.; Chynoweth, D. P.; Mancy, K. H., The source of hydrogen sulfide in anoxic sediment. *Water Research* **1985,** *19*, (7), 875-884.

Dunnette, D., Origin of hydrogen sulfide in freshwater sediments. In *Biogenic Sulfur in the Environment. American Chemical Society, Washington DC*, 1989; pp 72-78.

Duvall, M. R.; Biesboer, D. D., Anatomical distinctions between the pistillate spikelets of the species of wild-rice (Zizania, Poaceae). *American journal of botany* **1988**, 157-159.

Duvall, M. R.; Biesboer, D. D., Nonreciprocal hybridization failure in crosses between annual wild-rice species (Zizania palustris X Z. aquatica: Poaceae). *Systematic botany* **1988**, 229-234.

Duvel, J. W. T., The Storage and Germination of Wild Rice Seed. In Agriculture, U. D. o., Ed. Washington: Government Printing Office, 1905.

Edman, F. R. *A Study of Wild Rice in Minnesota*; Minnesota Resources Commission: 1969.

Eilers, J. M.; Brakke, D. F.; Landers, D. H., Chemical and physical characteristics of lakes in the Upper Midwest, United States. *Environmental science & technology* **1988,** *22*, (2), 164-172.

Elliott, W.; Oelke, E., New era for wild rice [Zizania aquatica]. *Crops and Soils* **1977,** *29*, (9), 8-11.

Ellis, M. M., Detection and Measurement of Stream Pollution. *Bull.Bur.Fish* **1937,** *22*.

Elphick, J. R.; Davies, M.; Gilron, G.; Canaria, E. C.; Lo, B.; Bailey, H. C., An aquatic toxicological evaluation of sulfate The case for considering hardness as a modifying factor in setting water quality guidelines. *Environmental Toxicology & Chemistry* **2011,** *30*, (1), 247-253.

Engineering, B. *2012 Wild Rice Survey and Sulfate Monitoring: St. Louis River and Second Creek*; Mesabi Nugget Delaware, LLC: Barr Engineering, 2013.

Epstein, E., Silicon. *Annual review of plant biology* **1999,** *50*, (1), 641-664.

Epstein, E., The anomaly of silicon in plant biology. *Proceedings of the National Academy of Sciences* **1994,** *91*, (1), 11-17.

Erickson, R., Proposed methodology for specifying atrazine levels of concern for protection of plant communities in freshwater ecosystems. *Draft Report to Environmental Fate and Effects Division, Office of Pesticide Programs, USEPA* **2012**.

Eule-Nashoba, A. R. Seed size in lacustrine and riverine populations of wild rice (Zizania palustris). UNIVERSITY OF MINNESOTA, 2010.

Eule-Nashoba, A. R.; Biesboer, D. D.; Newman, R. M., Seed size in lacustrine and riverine populations of wild rice in northern Minnesota and Wisconsin. *Botany* **2012,** *90*, (1), 27-33.

Fairchild II, E. J. Effects of Lowered Oxygen Tension on the Susceptibility of Daphnia magna to Certain Inorganic Salts. Louisiana State University, Baton Rouge, 1954.

Fairchild II, E. J. In *Low Dissolved Oxygen: Effect Upon the Toxicity of Certain Inorganic Salts to the Aquatic Invertebrate Daphnia magna*, Proceedings of the fourth annual Water Symposium, March 22-23, 1955 Baton Rouge, LA, 1955; The College of Baton Rouge, Lousiana Baton Rouge, LA, 1955; pp 95-102.

Farnsworth, C. E.; Voegelin, A.; Hering, J. G., Manganese oxidation induced by water table fluctuations in a sand column. *Environmental science & technology* **2012,** *46*, (1), 277-284.

Faulwetter, J. L.; Gagnon, V.; Sundberg, C.; Chazarenc, F.; Burr, M. D.; Brisson, J.; Camper, A. K.; Stein,O. R., Microbial processes influencing performance of treatment wetlands: A review. *Ecological Engineering* **2009,** *35*, (6), 987-1004.

Ferren Jr, W. R., Habitat, morphology and phenology of southern wild rice (Zizania aquatica L.) from the Wading River in New Jersey. *Bulletin of the Torrey Botanical Club* **1977**, 392-396.

Fiedler, S. V., Michael J.; Richardson, J. L. , Soil Redox Potential: Importance, Field Measurements, and Observations. *Advances in Agronomy* **2007,** *94*.

Finch-Savage, W. E.; Leubner-Metzger, G., Seed dormancy and the control germination. *New Phytologist* **2006,** *171*, 501-523.

Fitzpatrick, K. L.; Tyerman, S. D.; Kaiser, B. N., Molybdate transport through the plant sulfate transporter SHST1. *FEBS letters* **2008,** *582*, (10), 1508-1513.

Flessa, H. F., W.R., Plant-induced changes in the redox potentials of rice rhizospheres. *Plant and Soil* **1992,** *143*, 55-60.

Fojut, T. L.; Palumbo, A. J.; Tjeerdema, R. S., Aquatic life water quality criteria derived via the UC Davis method: III. Diuron. *Aquatic life water quality criteria for selected pesticides* **2012**, 105-141.

Fones, G. R.; Davison, W.; Holby, O.; Jorgensen, B. B.; Thamdrup, B., High-resolution metal gradients measured by in situ DGT/DET deployment in Black Sea sediments using an autonomous benthic lander. *Limnology and oceanography* **2001**, 982-988.

Foy, C.; Chaney, R.; White, M., The physiology of metal toxicity in plants.*Annual Review of Plant Physiology* **1978,** *29*, (1), 511-566.

Freeman, L.; Fowler, I., Toxicity of Combinations of Certain Inorganic Compounds to Daphnia magna Straus. *Sewage Ind. Wastes* **1953,** *25*, (10), 1191-1195.

Frenzel, P.; Bosse, U.; Janssen, P. H., Rice roots and methanogenesis in a paddy soil: ferric iron as an alternative electron acceptor in the rooted soil. *Soil Biology and Biochemistry* **1999,** *31*, (3), 421-430.

Friesz, P. J.; Church, P. E., *Pond-Aquifer Interaction at South Pond of Lake Cochituate, Natick, Massachusetts.* US Department of the Interior, US Geological Survey: 2001.

Frohn, R. C., Satellite Mapping and Monitoring of Wild Rice. *GIScience & Remote Sensing* **2005,** *42*, (4), 358-367.

Fung, D. K.; Bewick, P. H., Short-Term Toxicity of Aqueous Hydrogen Sulfide to Representative Fish Species of Lake Huron. In *Aquatic Toxicology: Third Conference - Stp 707*, Eaton, J. G. P., P.R.; Hendricks, A.C, Ed. American Society for Testing and Materials: 1980.

Furrer, G.; Wehrli, B., Microbial reactions, chemical speciation, and multicomponent diffusion in porewaters of a eutrophic lake. *Geochimica et cosmochimica acta* **1996,** *60*, (13), 2333-2346.

Fürtig, K.; Rüegsegger, A.; Brunold, C.; Brändle, R., Sulphide utilization and injuries in hypoxic roots and rhizomes of common reed (Phragmites australis). *Folia Geobotanica* **1996,** *31*, (1), 143-151.

Gabriel, M.; Redfield, G.; Rumbold, D. *Appendix 3B-2: Sulfur as a regional water quality concern in South Florida*; 2008.

Gantzer, C. J.; Stefan, H. G., A model of microbial activity in lake sediments in response to periodic water-column mixing. *Water research* **2003,** *37*, (12), 2833-2846.

Gao, S.; Tanji, K. K.; Scardaci, S. C., Impact of rice straw incorporation on soil redox status and sulfide toxicity. *Agronomy Journal* **2004,** *96*, (1), 70-76.

Gao, S.; Tanji, K.; Scardaci, S., Incorporating straw may induce sulfide toxicity in paddy rice. *California Agriculture* **2003,** *57*, (2), 55-59.

Gao, S.; Tanji, K.; Scardaci, S.; Chow, A., Comparison of redox indicators in a paddy soil during rice-growing season. *Soil Science Society of America Journal* **2002,** *66*, (3), 805-817.

Garfield, C. Effects of Road Salt Usage on *Zizania palustris* and Possible Implications for Reintroduction to Lake Wingra. 2006.

Gelda, R. K. A., Martin T.; Effler, Steven W. , Determination of Sediment Oxygen Demand by Direct Measurement and by Inference from Reduced Species Accumulation. *Marine and Freshwater Research* **1995,** *46*, 81-88.

Gemma, T.; Miura, H.; Hayashi, K., Effects of water depth and temperature on the seedling growth of wild rice, Zizania palustris L. *Japanese Journal of Crop Science* **1993,** *62*.

Gertzbein, J. *Ecological Relationships and the Impacts of Wild Rice Propagation on Fish and Wildlife Species*; Project #99-6-46; Amber Consulting: 2001.

Geurts, J. J. M.; Sarneel, J. M.; Willers, B. J. C.; Roelofs, J. G. M.; Verhoeven, J. T. A.; Lamers, L. P. M., Interacting effects of sulphate pollution, sulphide toxicity and eutrophication on vegetation development in fens: A mesocosm experiment. *Environmental Pollution* **2009,** *157*, (7), 2072-2081.

Geurts, J. J. M.; Smolders, A. J. P.; Verhoeven, J. O. S. T. A.; Roelofs, J. A. N. G. M.; Lamers, L. P. M., Sediment Fe: PO4 ratio as a diagnostic and prognostic tool for the restoration of macrophyte biodiversity in fen waters. *Freshwater Biology* **2008,** *53*, (10), 2101-2116.

Giblin, A. E.; Likens, G. E.; White, D.; Howarth, R. W., Sulfur storage and alkalinity generation in New England lake sediments. *Limnology and oceanography* **1990**, 852-869.

Gilmour, C.; Krabbenhoft, D.; Orem, W.; Aiken, G.; Roden, E. *Appendix 3B-2: status report on ACME studies on the control of mercury methylation and bioaccumulation in the Everglades*; 2007; pp 3B-2.

Gilmour, C.; Orem, W.; Krabbenhoft, D.; Mendelssohn, I. *Appendix 3B-3: preliminary assessment of sulfur sources, trends and effects in the Everglades*; 2007.

Giordani, G.; Bartoli, M.; Cattadori, M.; Viaroli, P., Sulphide release from anoxic sediments in relation to iron availability and organic matter recalcitrance and its effects on inorganic phosphorus recycling. *Hydrobiologia* **1996,** *329*, (1), 211-222.

Giroux, J. F.; Bédard, J., The effects of grazing by greater snow geese on the vegetation of tidal marshes in the St Lawrence estuary. *Journal of Applied Ecology* **1987**, 773-788.

Goetsch, P. A.; Palmer, C. G., Salinity Tolerances of Selected Macroinvertebrates of the Sabie River, Kruger National Park, South Africa. *Arch. Environ. Contam. Toxicol.* **1997,** *32*, (1), 32-41.

Goldman, D. A., Minimal male/female tradeoffs in *Zizania palustris*, a monoecious annual grass. *American journal of botany* **1991**, 189-197.

Gonsoski, J.; Burk, T. E.; Bolstad, P. V.; Balogh, M. *Rice Lake National Wildlife Refuge Historic Wild Rice Mapping (1983-2004)*; Department of Forest Resources, College of Natural Resources and Minnesota Agricultural Experiment Station, University of Minnesota: 2005.

Gonsoski, J.; Geurts, K. A.; Burk, T. E.; Bolstad, P. V.; Balogh, M. *Rice Lake National Wildlife Refuge Vegetation Cover (2004) Project Report*; Department of Forest Resources, College of Natural Resources and Minnesota Agricultural Experiment Station, University of Minnesota: 2005.

Gopalapillai, Y.; Hale, B.; Vigneault, B., Effect of major cations (Ca2+, Mg2+, Na+, K+) and anions (SO42−, Cl−, NO3−) on Ni accumulation and toxicity in aquatic plant (Lemna minor L.): Implications for Ni risk assessment. *Environmental Toxicology and Chemistry* **2013,** *32*, (4), 810.

Gopalapillai, Y.; Hale, B.; Vigneault, B., Effect of major cations (Ca2+, Mg2+, Na+, K+) and anions (SO. *Environmental Toxicology & Chemistry* **2013,** *32*, (4), 810-821.

Gorham, E.; Dean, W. E.; Sanger, J. E., The chemical composition of lakes in the north-central United States. *Limnology and Oceanography* **1983**, 287-301.

Górska, A.; Lazor, J. W.; Zwieniecka, A. K.; Benway, C.; Zwieniecki, M. A., The capacity for nitrate regulation of root hydraulic properties correlates with species' nitrate uptake rates. *Plant and soil* **2010,** *337*, (1), 447-455.

Grattan, S.; Grieve, C., Salinity–mineral nutrient relations in horticultural crops. *Scientia Horticulturae* **1999,** *78*, (1), 127-157.

Grattan, S.; Zeng, L.; Shannon, M.; Roberts, S., Rice is more sensitive to salinity than previously thought. *California Agriculture* **2002,** *56*, (6), 189-198.

Grava, J.; Raisanen, K., Growth and nutrient accumulation and distribution in wild rice. *Agronomy Journal* **1978,** *70*, (6), 1077-1081.

Grava, J.; Rose, K. F. *Soil fertility and chemistry aspects of wild rice production*; University of Minnesota: 1974.

Greipsson, S.; Crowder, A., Amelioration of copper and nickel toxicity by iron plaque on roots of rice (Oryza sativa). *Canadian journal of botany* **1992,** *70*, (4), 824-830.

Group, B. R. I. A. T. *Brenda Mines Sulphate and Molybdenum Toxicity Testing*; BC Research Inc: BC Research Inc, 1998.

Gu, C. L., Anniet M.; Pallud, Céline E., Environmental controls on nitrogen and sulfur cycles in surficial aquatic sediments. *Frontiers in Microbiology* **2012,** *3*, (45).

Gueffroy, D. E., A Guide for the Preparation and Use of Buffers in a Biological System. In CalBiochem: La Joila, California, 1975.

Guerinot, M. L.; Yi, Y., Iron: nutritious, noxious, and not readily available. *Plant Physiology* **1994,** *104*, (3), 815.

Guillette, L. J.; Edwards, T. M., Is nitrate an ecologically relevant endocrine disruptor in vertebrates? *Integrative and Comparative Biology* **2005,** *45*, (1), 19-27.

Guo, H.; Li, S.; Peng, J.; Ke, W., *Zizania latifolia* Turcz. cultivated in China. *Genetic Resources and Crop Evolution* **2007,** *54*, (6), 1211-1217.

Gustin, M. S.; Chavan, P. V.; Dennett, K. E.; Donaldson, S.; Marchand, E.; Fernanadez, G., Use of constructed wetlands with four different experimental designs to assess the potential for methyl and total Hg outputs. *Applied geochemistry* **2006,** *21*, (11), 2023-2035.

Gustin, M. S.; Chavan, P. V.; Dennett, K. E.; Marchand, E. A.; Donaldson, S., Evaluation of wetland methyl mercury export as a function of experimental manipulations. *Journal of environmental quality* **2006,** *35*, (6), 2352-2359.

Haaijer, S. C. M.; Lamers, L. P. M.; Smolders, A. J. P.; Jetten, M. S. M.; den Camp, H. J. M. O., Iron sulfide and pyrite as potential electron donors for microbial nitrate reduction in freshwater wetlands. *Geomicrobiology Journal* **2007,** *24*, (5), 391-401.

Haaijer, S.; Van der Welle, M. E. W.; Schmid, M. C.; Lamers, L. P. M.; Jetten, M. S. M.; Op den Camp, H. J. M., Evidence for the involvement of betaproteobacterial Thiobacilli in the nitrate-dependent oxidation of iron sulfide minerals. *FEMS microbiology ecology* **2006,** *58*, (3), 439-448.

Haase, D.; Rose, R., Vector analysis and its use for interpreting plant nutrient shifts in response to silvicultural treatments. *Forest Science* **1995,** *41*, (1), 54-66.

Hagy, H. M.; Kaminski, R. M., Apparent seed use by ducks in moist-soil wetlands of the Mississippi Alluvial Valley. *The Journal of Wildlife Management* **2012,** *76*, (5).

Hamilton, W., Sulphate-reducing bacteria and anaerobic corrosion. *Annual Reviews in Microbiology* **1985,** *39*, (1), 195-217.

Hammerschmidt, C. R.; Burton Jr, G. A., Measurements of acid volatile sulfide and simultaneously extracted metals are irreproducible among laboratories. *Environmental Toxicology and Chemistry* **2010,** *29*, (7), 1453-1456.

Han, S. S.; Liu, Q., Developmental Events Associated with the Critical Stage for Sex Determination in Wild-Rice Florets. *International Journal of Plant Sciences* **1999,** *160*, (6), 1127-1133.

Hansen, D., Natural Wild Rice In Minnesota. In *A Wild Rice Study document submitted to the Minnesota Legislature by the Minnesota Department of Resources*, 2008.

Hansen, D.; Berry, W.; Boothman, W.; Pesch, C.; Mahony, J.; Di Toro, D.; Robson, D.; Ankley, G.; Ma, D.; Yan, Q., Predicting the toxicity of metal-contaminated field sediments using interstitial concentration of metals and acid-volatile sulfide normalizations. *Environmental Toxicology and Chemistry* **1996,** *15*, (12), 2080-2094.

Haramis, G. M.; Kearns, G. D., Herbivory by resident geese: the loss and recovery of wild rice along the tidal Patuxent River. *The Journal of wildlife management* **2007,** *71*, (3), 788-794.

Harmon, S. M.; King, J. K.; Gladden, J.; Chandler, G. T.; Newman, L., Mercury body burdens in *Gambusia holbrooki* and *Erimyzon sucetta* in a wetland mesocosm amended with sulfate. *Chemosphere* **2005,** *59*, 227-233.

Harmon, S. M.; King, J.; Gladden, J.; Newman, L., Using sulfate-amended sediment slurry batch reactors to evaluate mercury methylation. *Archives of environmental contamination and toxicology* **2007,** *52*, (3), 326-331.

Harmon, S. M.; Specht, W. L.; Chandler, G. T., A Comparison of the Daphnids Ceriodaphnia dubia and Daphnia ambigua for Their Utilization in Routine Toxicity Testing in the Southeastern United States. *Archives of Environmental Contamination & Toxicology* **2003,** *45*, (1), 0079-0085.

Harshberger, J. W., An hydrometric investigation of the influence of sea water on the distribution of salt marsh and estuarine plants. *Proceedings of the American Philosophical Society* **1911,** *50*, (201), 457-496.

Hass, B.; Pires, J.; Porter, R.; Phillips, R.; Jackson, S., Comparative genetics at the gene and chromosome levels between rice (Oryza sativa) and wildrice (Zizania palustris). *TAG Theoretical and Applied Genetics* **2003,** *107*, (5), 773-782.

Hatch, C. E.; Fisher, A. T.; Revenaugh, J. S.; Constantz, J.; Ruehl, C., Quantifying surface water–groundwater interactions using time series analysis of streambed thermal records: Method development. *Water Resources Research* **2006,** *42*, (10), W10410.

Haug, A.; Graham, R. D.; Christophersen, O. A.; Lyons, G. H., How to use the world's scarce selenium resources efficiently to increase the selenium concentration in food. *Microbial ecology in health and disease* **2007,** *19*, (4), 209-228.

Hayes, P.; Stucker, R.; Wandrey, G., The domestication of American wildrice. *Economic Botany* **1989,** *43*, (2), 203-214.

Heiskary, S.; Lindon, M., Minnesota National Lakes Assessment Project: An overview of water chemistry in Minnesota Lakes. In Agency, M. P. C., Ed. 2010.

Hemsi, P. S.; Shackelford, C. D.; Figueroa, L. A., Modeling the influence of decomposing organic solids on sulfate reduction rates for iron precipitation. *Environmental science & technology* **2005,** *39*, (9), 3215-3225.

Herlihy, A. T.; Mills, A. L., Sulfate reduction in freshwater sediments receiving acid mine drainage. *Applied and environmental microbiology* **1985,** *49*, (1), 179-186.

Hildebrandt, L. R.; Pastor, J.; Dewey, B., Effects of external and internal nutrient supplies on decomposition of wild rice, Zizania palustris. *Aquatic Botany* **2011,** *97*, (1), 35-43.

Hildebrandt, L. R.; Pastor, J.; Dewey, B., Effects of external and internal nutrient supplies on decomposition of wild rice, *Zizania palustris*. *Aquatic botany* **2012,** *97*, 35-43.

Hilgartner, W. B.; Brush, G. S., Prehistoric habitat stability and post-settlement habitat change in a Chesapeake Bay freshwater tidal wetland, USA. *The Holocene* **2006,** *16*, (4), 479-494.

Hobbs, W. O. R.-H., Joy M.; LaFrançois, Toben; Zimmer, Kyle D.;Theissen, Kevin M.; Edlund, Mark B.; Michelutti, Neal; Butler, Malcolm G.; Hanson, Mark A.; Carlson, Thomas J. , A 200-year perspective on alternative stable state theory and lake management from a biomanipulated shallow lake. *Ecological Applications* **2012,** *22*, (5), 1483-1496.

Holmer M, N. S., Sediment sulfur dynamics related to biomass- density patterns in Zostera marina (eelgrass) beds. *Marine Ecology Progress Series* **1997,** *146*, 163-171.

Holmer, M.; Duarte, C. M.; Marbá, N., Iron additions reduce sulfate reduction rates and improve seagrass growth on organic-enriched carbonate sediments. *Ecosystems* **2005,** *8*, (6), 721-730.

Holmer, M.; Frederiksen, M. S.; Møllegaard, H., Sulfur accumulation in eelgrass (*Zostera marina*) and effect of sulfur on eelgrass growth. *Aquatic botany* **2005,** *81*, (4), 367-379.

Holmer, M.; Kristensen, E., Seasonality of sulfate reduction and pore water solutes in a marine fish farm sediment: the importance of temperature and sedimentary organic matter. *Biogeochemistry* **1996,** *32*, (1), 15-39.

Holmer, M.; Storkholm, P., Sulphate reduction and sulphur cycling in lake sediments: a review. *Freshwater Biology* **2001,** *46*, (4), 431-451.

Hong, T.; Ellis, R. *A protocol to determine seed storage behaviour*; 9290432799; International Plant Genetic Resources Institute: Rome, Italy, 1996.

Hopper, D. A.; Stutte, G. W.; McCormack, A.; Barta, D. J.; Heins, R. D.; Erwin, J. E.; Tibbitts, T. W., Crop growth requirements. *Plant growth chamber handbook. North Central Regional Research Publication* **1997**, (340), 217-225.

Hopper, J. L.; Parker, D. R., Plant availability of selenite and selenate as influenced by the competing ions phosphate and sulfate. *Plant and Soil* **1999,** *210*, (2), 199-207.

Hoque, M. T.; Yusoff, F. M.; Law, A. T.; Syed, M. A., Effect of Hydrogen Sulphide on Liver Somatic Index and Fulton's Condition Factor in Mystus nemurus. *J. Fish Biol.* **1998,** *52*.

Horne, F. R.; Kahn, A., Water loss and viability in Zizania (Poaceae) seeds during short-term desiccation. *American Journal of Botany* **2000,** *87*, (11), 1707-1711.

Horne, F.; Kahn, A., Phylogeny of North American wild rice, a theory. *The Southwestern Naturalist* **1997**, 423-434.

Hotes, S.; Adema, E. B.; Grootjans, A. P.; Inoue, T.; Poschlod, P., Reed die-back related to increased sulfide concentration in a coastal mire in eastern Hokkaido, Japan. *Wetlands Ecology and Management* **2005,** *13*, (1), 83-91.

Howeler, R., Iron-induced oranging disease of rice in relation to physico-chemical changes in a flooded oxisol. *Soil Science Society of America Journal* **1973,** *37*, (6), 898-903.

Hsieh, Y.; Yang, C.; Feng, J., Sulfate reduction and a molybdate-induced soluble nitrogen flush in sediments during incubation. *Soil Biology and Biochemistry* **1998,** *30*, (13), 1799-1804.

Huang, S.; Greenway, H.; Colmer, T. D.; Millar, A. H., Protein synthesis by rice coleoptiles during prolonged anoxia: implications for glycolysis, growth and energy utilization. *Annals of Botany* **2005,** *96*, (4), 703-715.

Huerta-Diaz, M. A.; Tessier, A.; Carignan, R., Geochemistry of trace metals associated with reduced sulfur in freshwater sediments. *Applied geochemistry* **1998,** *13*, (2), 213-233.

Hughes, J. S. *Acute Toxicity of Thirty Chemicals to Striped Bass (Morone saxatilis)*; 1973.

Huguier, P.; Manier, N.; Méline, C.; Bauda, P.; Pandard, P., Improvement of the Caenorhabditis elegans growth and reproduction test to assess the ecotoxicity of soils and complex matrices. *Environmental Toxicology & Chemistry* **2013,** *32*, (9), 2100-2108.

Hung, L.; Asaeda, T.; Kalibbala, M.; Mnaya, B., Effects of nutrient concentration and litter cover on quantitative shoot parameters and belowground biomass of Zizania latifolia (L). *Chemistry and Ecology* **2008,** *24*, (5), 357-365.

Hunt, R. J.; Krabbenhoft, D. P.; Anderson, M. P., Groundwater inflow measurements in wetland systems. *Water Resources Research* **1996,** *32*, (3), 495-507.

Hupfer, M.; Lewandowski, J., Oxygen Controls the Phosphorus Release from Lake Sediments–a Long-Lasting Paradigm in Limnology. *International Review of Hydrobiology* **2008,** *93*, (4-5), 415-432.

Ide, Y.; Kusano, M.; Oikawa, A.; Fukushima, A.; Tomatsu, H.; Saito, K.; Hirai, M. Y.; Fujiwara, T., Effects of molybdenum deficiency and defects in molybdate transporter MOT1 on transcript accumulation and nitrogen/sulphur metabolism in Arabidopsis thaliana. *Journal of experimental botany* **2011,** *62*, (4), 1483-1497.

Iimura, K.; Abe, T.; Sasahara, T., Varietal Variations in Rice Seedling Growth under Low Oxidation-Reduction Potentials. *Breeding science* **2002,** *52*, (4), 293-297.

Imo, M., Analysis of Nutritional Interactions in Cropping Systems. In *Crop Production Technologies*, Sharma, P. A., V., Ed. InTech: Rijeka, Croatia, 2012.

Ingerslev, M.; Mälkönen, E.; Nilsen, P.; Nohrstedt, H.; Óskarsson, H.; Raulund-Rasmussen, K., Main findings and future challenges in forest nutritional research and management in the Nordic countries. *Scandinavian journal of forest research* **2001,** *16*, (6), 488-501.

Ingersoll, T. L.; Baker, L. A., Nitratfe removal in wetland microcosms. *Water research* **1998,** *32*, (3), 677-684.

Ingvorsen, K.; Brock, T., Electron flow via sulfate reduction and methanogenesis in the anaerobic hypolimnion of Lake Mendota. *Limnology and Oceanography* **1982**, 559-564.

Ingvorsen, K.; Zeikus, J.; Brock, T., Dynamics of bacterial sulfate reduction in a eutrophic lake. *Applied and environmental microbiology* **1981,** *42*, (6), 1029-1036.

Iriondo, J. M.; Albert, M. J.; Escudero, A., Structural equation modelling: an alternative for assessing causal relationships in threatened plant populations. *Biological Conservation* **2003,** *113*, (3), 367-377.

Ishimaru, Y.; Suzuki, M.; Tsukamoto, T.; Suzuki, K.; Nakazono, M.; Kobayashi, T.; Wada, Y.; Watanabe, S.; Matsuhashi, S.; Takahashi, M., Rice plants take up iron as an Fe3+-phytosiderophore and as Fe2+. *The Plant Journal* **2006,** *45*, (3), 335-346.

Iversen, C. M. M., M. T.; Allen, M. F.; Childs, J.; Eissenstat, D. M.; Lilleskov, E. A.;Sarjala, T. M.; Sloan, V. L.; Sullivan, P. F. , Advancing the use of minirhizotrons in wetlands. *Plant Soil* **2012,** *253*, 23-39.

Izawa, T.; Oikawa, T.; Tokutomi, S.; Okuno, K.; Shimamoto, K., Phytochromes confer the photoperiodic control of flowering in rice (a short-day plant). *The Plant Journal* **2001,** *22*, (5), 391-399.

Jacob, D. L.; Otte, M. L., Conflicting processes in the wetland plant rhizosphere: Metal retention or mobilization? *Water, Air, & Soil Pollution: Focus* **2003,** *3*, (1), 91-104.

Jacq, V. A.; Prade, K.; Ottow, J. C. G., *Iron sulphide accumulation in the rhizosphere of wetland rice (Oryza sativa L.) as the result of microbial activities.* Elsevier: 1991.

Jaffé, P. R.; Kallin, P.; Smith, S. L., Modelling trace metal dynamics in wetland sediments: The effects of the rhizosphere on the sediment redox profile. In *Goldschmidt Conference*, Mineralogical Magazine: Toulouse, France, 1998; Vol. 62A.

Jager, T., Bad habits die hard: The NOEC's persistence reflects poorly on ecotoxicology. In *Letter to the Editor*, Environmental Toxicology and Chemistry: 2011; Vol. 31, pp 228-229.

Jager, T., Some good reasons to ban ECx and related concepts in ecotoxicology. *Environmental science & technology* **2011,** *45*, (19), 8180-8181.

Jager, T.; Heugens, E. H. W.; Kooijman, S. A. L. M., Making sense of ecotoxicological test results: towards application of process-based models. *Ecotoxicology* **2006,** *15*, (3), 305-314.

Jaworska, M.; Gorczyca, A.; Sepiol, J.; Tomasik, P., Effect of Metal Ions on the Entomopathogenic Nematode Heterorhabditis bacteriophora Poinar (Nematode: Heterohabditidae) Under Laboratory Conditions. *Water Air Soil Pollut.* **1997,** *93*, 157-166.

Jaworska, M.; Sepiol, J.; Tomasik, P., Effect of Metal Ions Under Laboratory Conditions on the Entomopathogenic Steinernema carpocapsae (Rhabditida: Steinernematidae). *Water Air Soil Pollut.88* **1996,** *88*, (3/4), 331-341.

Jayamanne, S. C. *A Preliminary Study of Hydrogen Sulphide Toxicity on Juveniles of Macrobrachium rosenbergii* Food and Agricultral Organization of the United Nations: BANGKOK, THAILAND, 1986; p 20.

Jayamanne, S. C., Toxicity of Hydrogen Sulphide to Juveniles of Macrobrachium rosenbergii. *J. Natl. Sci. Counc.* **1992,** *20*, (2), 191-199.

Jenks, A. E., *The wild rice gatherers of the upper lakes: a study in American primitive economics*. Govt. print. off.: 1901; Vol. 19.

Jensen, H. S.; Kristensen, P.; Jeppesen, E.; Skytthe, A., Iron: phosphorus ratio in surface sediment as an indicator of phosphate release from aerobic sediments in shallow lakes. *Hydrobiologia* **1992,** *235*, (1), 731-743.

Jeppesen, E.; Kronvang, B.; Meerhoff, M.; Søndergaard, M.; Hansen, K. M.; Andersen, H. E.; Lauridsen, T. L.; Liboriussen, L.; Beklioglu, M.; Özen, A., Climate change effects on runoff, catchment phosphorus loading and lake ecological state, and potential adaptations. *Journal of Environmental Quality* **2009,** *38*, (5), 1930-1941.

Jin, I. D.; Yun, S. J.; Matsuishi, Y.; Iwaya-Inoue, M., Changes in the water content and germination rate during seed desiccation and their inter-specific differences among Zizania species. *Journal of the Faculty of Agriculture, Kyushu University* **2005,** *50*, (2), 573-583.

Johnson, D. R.; Percich, J. A., Wild rice domestication, fungal brown spot disease, and the future of commercial production in Minnesota. *Plant disease* **1992,** *76*, (12), 1193-1198.

Johnson, J. A., Effectiveness of temporary carp barriers for promoting wild rice growth in a southern bay of Upper Clam Lake. *Report to St. Croix Tribal Environmental Services–Natural Resources Department, Webster (WI). Freshwater Scientific Services LLC, Maple Grove (MN)* **2011**.

Johnson, J. A., Wild Rice Seed Enumeration Report: 2009-2010. *Upper Clam Lake, Lower Clam Lake, Long* **2010**.

Johnson, N. W.; Reible, D. D.; Katz, L. E., Biogeochemical Changes and Mercury Methylation beneath an In-Situ Sediment Cap†. *Environmental science & technology* **2010,** *44*, (19), 7280-7286.

Jones, J. R. E., A Study of the Relative Toxicity of Anions, with Polycelis nigra as Test Animal. *J. Exp. Biol.* **1941,** *18*, 170-181.

Jordan, J. S., Consumption of cereal grains by migratory waterfowl. *The Journal of Wildlife Management* **1953,** *17*, (2), 120-123.

Jørgensen, B. B., A thiosulfate shunt in the sulfur cycle of marine sediments. *Science (New York, NY)* **1990,** *249*, (4965), 152.

Jorgensen, B. B., The sulfur cycle of freshwater sediments: role of thiosulfate. *Limnology and Oceanography* **1990**, 1329-1342.

Jorgensen, B.; Postgate, J.; Jorgensen, B.; Postgate, J., Ecology of the Bacteria of the Sulphur Cycle with Special Reference to Anoxic-Oxic Interface Environments [and Discussion]. *Philosophical Transactions of the Royal Society of London. B, Biological Sciences* **1982,** *298*, (1093), 543-561.

Jorgenson, K. D. L., Peter F.; Kanavillil, Nandakumar Ecological relationships of wild rice, Zizania spp. 11. Electron microscopy study of iron plaques on the roots of northern wild rice (Zizania palustris). *Botany* **2013,** *91*, 189-201.

Joshi, M. M. I., I. K. A.;Hollis, J . P. , Hydrogen Sulfide: Effects on the Physiology of Rice Plants and Relation to Straighthead Disease. *Phytopathology* **1975,** *65*, 1165- 1170.

Kahn, A. B. Aspects of the molecular phylogeny of three species of the wild rice genus. 1996.

Kaiser, B. N.; Gridley, K. L.; BRADY, J. N.; Phillips, T.; Tyerman, S. D., The role of molybdenum in agricultural plant production. *Annals of Botany* **2005,** *96*, (5), 745-754.

Kalbus, E.; Reinstorf, F.; Schirmer, M., Measuring methods for groundwater? surface water interactions: a review. *Hydrology and Earth System Sciences Discussions* **2006,** *10*, (6), 873-887.

Keddy, P. A., Quantifying within-lake gradients of wave energy: interrelationships of wave energy, substrate particle size and shoreline plants in Axe Lake, Ontario. *Aquatic Botany* **1982,** *14*, 41-58.

Keddy, P.; Reznicek, A., Great Lakes vegetation dynamics: the role of fluctuating water levels and buried seeds. *Journal of Great Lakes Research* **1986,** *12*, (1), 25-36.

Keenan, T.; Lee, P., Ecological relationships of wild rice, Zizania aquatica. 7. Sediment nutrient depletion following introduction of wild rice to a shallow boreal lake. *Canadian journal of botany* **1988,** *66*, (2), 236-241.

Keeney, D.; Sahrawat, K., Nitrogen transformations in flooded rice soils. *Nutrient Cycling in Agroecosystems* **1986,** *9*, (1), 15-38.

Keery, J.; Binley, A.; Crook, N.; Smith, J. W. N., Temporal and spatial variability of groundwater–surface water fluxes: Development and application of an analytical method using temperature time series. *Journal of Hydrology* **2007,** *336*, (1), 1-16.

Kennard, W.; Phillips, R.; Porter, R., Genetic dissection of seed shattering, agronomic, and color traits in American wildrice (Zizania palustris var. interior L.) with a comparative map. *TAG Theoretical and Applied Genetics* **2002,** *105*, (6), 1075-1086.

Kennedy, C. D.; Genereux, D. P.; Corbett, D. R.; Mitasova, H., Design of a light-oil piezomanometer for measurement of hydraulic head differences and collection of groundwater samples. *Water Resources Research* **2007,** *43*, (9), W09501.

Kettenring, K. M. G., Gary; Galatowitsch, Susan M. , Effect of Light on Seed Germination of Eight Wetland Carex Species. *Annals of Botany* **2006,** *98*, 869–874.

Khangarot, B. S., Toxicity of Metals to a Freshwater Tubificid Worm, Tubifex tubifex (Muller). *Bull. Environ. Contam. Toxicol.* **1991,** *46*, 906-912.

Khangarot, B. S.; Das, S., Acute Toxicity of Metals and Reference Toxicants to a Freshwater Ostracod, Cypris subglobosa Sowerby, 1840 and Correlation to EC50 Values of Other Test Models. *J. Hazard. Mater* **2009,** *172*, (2/3), 641-649.

Khangarot, B. S.; Ray, P. K., Investigation of Correlation Between Physicochemical Properties of Metals and Their Toxicity to the Water Flea Daphnia magna Straus. *Ecotoxicol. Environ. Saf.* **1989,** *18*, (2), 109-120.

Kim, D. W.; Rakwal, R.; Agrawal, G. K.; Jung, Y. H.; Shibato, J.; Jwa, N. S.; Iwahashi, Y.; Iwahashi, H.; Kim, D. H.; Shim, I. S., A hydroponic rice seedling culture model system for investigating proteome of salt stress in rice leaf. *Electrophoresis* **2005,** *26*, (23), 4521-4539.

Kim, S. A.; Guerinot, M. L., Mining iron: iron uptake and transport in plants. *FEBS letters* **2007,** *581*, (12), 2273-2280.

King, R. S.; Richardson, C. J., Integrating bioassessment and ecological risk assessment: an approach to developing numerical water-quality criteria. *Environmental Management* **2003,** *31*, (6), 795-809.

Kleeberg, A., Interactions between benthic phosphorus release and sulfur cycling in Lake Scharmützelsee (Germany). *Water, Air, & Soil Pollution* **1997,** *99*, (1), 391-399.

Klüber, H. D.; Conrad, R., Effects of nitrate, nitrite, NO and N2O on methanogenesis and other redox processes in anoxic rice field soil. *FEMS microbiology ecology* **1998,** *25*, (3), 301-318.

Kludze, H.; Delaune, R., Gaseous exchange and wetland plant response to soil redox intensity and capacity. *Soil Science Society of America Journal* **1995,** *59*, (3), 939-945.

Kludze, H.; DeLaune, R., Soil redox intensity effects on oxygen exchange and growth of cattail and sawgrass. *Soil Science Society of America Journal* **1996,** *60*, (2), 616-621.

Kludze, H.; DeLaune, R., Straw application effects on methane and oxygen exchange and growth in rice. *Soil Science Society of America Journal* **1995,** *59*, (3), 824-830.

Kludze, H.; DeLaune, R.; Patrick, W., Aerenchyma formation and methane and oxygen exchange in rice. *Soil Science Society of America Journal* **1993,** *57*, (2), 386-391.

Knauer, K.; Mohr, S.; Feiler, U., Comparing growth development of Myriophyllum spp. in laboratory and field experiments for ecotoxicological testing. *Environmental Science and Pollution Research* **2008,** *15*, (4), 322-331.

Koch, M. S.; Mendelssohn, I. A.; McKee, K. L., Mechanism for the hydrogen sulfide-induced growth limitation in wetland macrophytes. *Limnology and Oceanography* **1990**, 399-408.

Koch, M. S.; Mendelssohn, I., Sulphide as a soil phytotoxin: differential responses in two marsh species. *The Journal of Ecology* **1989**, 565-578.

Koenig, R.; Pan, W., Calcium effects on quantity-intensity relationships and plant availability of ammonium. *Soil Science Society of America Journal* **1996,** *60*, (2), 492-497.

Konneke, M.; Widdel, F., Effect of growth temperature on cellular fatty acids in sulphate-reducing bacteria. *Environmental Microbiology* **2003,** *5*, (11), 1064-1070.

Koretsky, C. M. C., Angel; Melanie Haveman; Lauren Beuving; Terri Shattuck; Mark Wagner, Influence of Spartina and Juncus on saltmarsh sediments. II. Trace element geochemistry. *Chemical Geology* **2008,** *255*, 100-113.

Koretsky, C. M. H., Melanie; Beuving, Lauren; Cuellar, Angel; Shattuck, Terri; Wagner, Mark Spatial variation of redox and trace metal geochemistry in a minerotrophic fen. *Biogeochemistry* **2007,** *86*, 33-62.

Koretsky, C. M. M., Douglas Seasonal Influence of the Needle Rush Juncus roemarianus on Saltmarsh Pore Water Geochemistry. *Estuaries and Coasts* **2008,** *31*, 70-84.

Koretsky, C. M.; Haas, J. R.; Miller, D.; Ndenga, N. T., Seasonal variations in pore water and sediment geochemistry of littoral lake sediments(Asylum Lake, MI, USA). *Geochemical transactions* **2006,** *7*, (11).

Koretsky, C. M.; Haas, J. R.; Ndenga, N. T.; Miller, D., Seasonal variations in vertical redox stratification and potential influence on trace metal speciation in minerotrophic peat sediments. *Water, Air, and Soil Pollution* **2006,** *173*, 373–403.

Koretsky; Carla M.; Haveman, M. C., Angel; Beuving, Lauren; Shattuck,Terri; Wagner, Mark Influence of Spartina and Juncus on Saltmarsh Sediments. I. PoreWater Geochemistry. *Chemical Geology* **2008,** *255*, 87-80.

Koretskya, C. M. C., Philippe Van; DiChristinac, Thomas J.; Kostkad, Joel E.; Lowec, Kristi L.; Moorec, Charles M.; Roychoudhury, Alakendra N.; Viollier, Eric Salt marsh pore water geochemistry does not correlate with microbial community structure. *Estuarine, Coastal and Shelf Science* **2005,** *62*, 233–251.

Kotula, L.; Ranathunge, K.; Schreiber, L.; Steudle, E., Functional and chemical comparison of apoplastic barriers to radial oxygen loss in roots of rice (Oryza sativa L.) grown in aerated or deoxygenated solution. *Journal of experimental botany* **2009,** *60*, (7), 2155-2167.

Krizek, D. T.; Sager, J. C.; Tibbitts, T. W., Guidelines for measuring and reporting environmental conditions in controlled-environment studies. In *Physiologia Plantarum*, 2006; Vol. 56, pp 231-235.

Kuenzer, C. K., Kim Remote sensing of rice crop areas. *International Journal of Remote Sensing* **2012,** *34*, (6), 2101-2139.

Kusel, K., Microbial Cycling of Iron and Sulfur in Acidic Coal Mining Lake Sediments. *Water, Air, and Soil Pollution* **2003,** *3*, 67–90.

Küster, E.; Dorusch, F.; Altenburger, R., EFFECTS OF HYDROGEN SULFIDE TO VIBRIO FISCHERI, SCENEDESMUS VACUOLATUS, AND DAPHNIA MAGNA. *Environmental Toxicology & Chemistry* **2005,** *24*, (10), 9-9.

Laanbroek, H. J., Methane emission from natural wetlands: interplay between emergent macrophytes and soil microbial processes. A mini-review. *Annals of Botany* **2010,** *105*, (1), 141-153.

Laboratory, A. C. E. T. *Results of 10-day Zizania aquatica (Wild Rice) Toxicity Test with St. Louis River Sediments Samples Received September 25-October 18, 2001*; 2001.

Lacoul, P.; Freedman, B., Environmental influences on aquatic plants in freshwater ecosystems. *Environmental Reviews* **2006,** *14*, (2), 89-136.

Lamers, L. P. M. G., Laura L.;.Janssen, Inge C.J.M; Geurts, Jeroen J.M.; Van der Welle, Marlies E.W.; Van Katwijk, Marieke M.; Van der Heide, Tjisse ;, Roelofs, Jan G.M.; Smolders, Alfons J.P. , Sulfide as a soil phytotoxin - a review. *Frontiers in Plant Science* **2013,** *4*, (269), 1-14.

Lamers, L. P. M. V. D., Josepha M. H.; Op den Camp, Huub J. M.; Visser, Eric J. W.; Lucassen, Esther C.H.E.T.; Vle, Melanie A.; Jetten, Mike S. M.; Smolders, Alfons J. P.; Roelofs, Jan G. M. , Microbial transformations of nitrogen, sulfur, and iron dictate vegetation composition in wetlands: a review. *Frontiers in Microbiology* **2012,** *25*, (3).

Lamers, L. P. M.; Dolle, G. E. T.; Van Den Berg, S. T. G.; Van Delft, S. P. J.; Roelofs, J. G. M., Differential responses of freshwater wetland soils to sulphate pollution. *Biogeochemistry* **2001,** *55*, (1), 87-101.

Lamers, L. P. M.; Falla, S. J.; Samborska, E. M.; van Dulken, I. A. R.; van Hengstum, G.; Roelofs, J. G. M., Factors controlling the extent of eutrophication and toxicity in sulfate-polluted freshwater wetlands. *Limnology and Oceanography* **2002**, 585-593.

Lamers, L. P. M.; Tomassen, H. B. M.; Roelofs, J. G. M., Sulfate-induced eutrophication and phytotoxicity in freshwater wetlands. *Environmental Science & Technology* **1998,** *32*, (2), 199-205.

Landis, W. G.; Chapman, P. M., Well past time to stop using NOELs and LOELs. *Integrated Environmental Assessment and Management* **2011,** *7*, (4), vi-viii.

Langhans, R. W.; Tibbitts, T. W., Chamber Maintenance. In 1997.

Lasorsa, B.; Casas, A., A comparison of sample handling and analytical methods for determination of acid volatile sulfides in sediment. *Marine chemistry* **1996,** *52*, (3), 211-220.

Laverman, A. M.; Pallud, C.; Abell, J.; Van Cappellen, P., Comparative survey of potential nitrate and sulfate reduction rates in aquatic sediments. *Geochimica et Cosmochimica Acta* **2012,** *77*, 474-488.

Ledin, D. H., The Carlos Avery Story. *Minnesota Conservation Volunteer* 1964.

Lee, B. G.; Lee, J. S.; Luoma, S. N.; Choi, H. J.; Koh, C. H., Influence of acid volatile sulfide and metal concentrations on metal bioavailability to marine invertebrates in contaminated sediments. *Environmental science & technology* **2000,** *34*, (21), 4517-4523.

Lee, D. R. Development of an Invertebrate Bioassay to Screen Petroleum Refinery Effluents Discharged into Freshwater. 1976.

Lee, G. A.; Davis, A. M.; Smith, D. G.; McAndrews, J. H., Identifying fossil wild rice (*Zizania*) pollen from Cootes Paradise, Ontario: a new approach using scanning electron microscopy. *Journal of archaeological science* **2004,** *31*, (4), 411-421.

Lee, P. F. H., P.C. *The Effects of Sulfate on the Early Development of Wild Rice: Prepared For: Wenck Associates Inc.*; Lakehead University Environmental Laboratory Thunder Bay, ON, 2000.

Lee, P. F., Ecological relationships of wild rice, Zizania aquatica. 5. Enhancement of wild rice production by Potamogeton robbinsii. *Canadian journal of botany* **1987,** *65*, (7), 1433-1438.

Lee, P. F., Ecological relationships of wild rice, *Zizania* spp. 10. Effects of sediment and among-population variations on plant density in *Zizania palustris*. *Canadian Journal of Botany* **2002,** *80*, 1283-1294.

Lee, P. F.; McNaughton, K., Macrophyte induced microchemical changes in the water column of a norther Boreal Lake. *Hydrobiologia* **2004,** *522*, 207-220.

Lee, P. F.; Stewart, J. M. *Effects of the Clay-Boswell Power Generating Station on stands of wild rice on the Mississippi River*; University of Manitoba: 1976.

Lee, P. F.; Stewart, J. M. *Impact of sulfate discharge from the Clay Boswell Steam Electric Station on the ecology of wild rice stands in the Mississippi River*; University of Manitoba: 1978.

Lee, P., Ecological relationships of wild rice, *Zizania aquatica*. 4. Environmental regions within a wild rice lake. *Canadian journal of botany* **1985,** *64*, (9), 2037-2044.

Lee, P., Ecological relationships of wild rice, *Zizania* spp. 10. Effects of sediment and among-population variations on plant density in Zizania palustris. *Canadian journal of botany* **2002,** *80*, (12), 1283-1294.

Lee, P.; McNaughton, K., Macrophyte induced microchemical changes in the water column of a northern Boreal Lake. *Hydrobiologia* **2004,** *522*, (1), 207-220.

Lee, P.; Stewart, J., Ecological relationships of wild rice, Zizania aquatica. 1. A model for among-site growth. *Canadian Journal of Botany* **1980,** *59*, (11), 2140-2151.

Lee, P.; Stewart, J., Ecological relationships of wild rice, *Zizania aquatica*. 3. Factors affecting seeding success. *Canadian journal of botany* **1983,** *62*, (8), 1608-1615.

Lee, P.; Stewart, J., Ecological relationships of wild rice, Zizania aquatica. 2. Sediment-plant tissue nutrient relationships. *Canadian Journal of Botany* **1983,** *61*, (6), 1775-1784.

Leonard, E.; Mattson, V.; Benoit, D.; Hoke, R.; Ankley, G., Seasonal variation of acid volatile sulfide concentration in sediment cores from three northeastern Minnesota lakes. *Hydrobiologia* **1993,** *271*, (2), 87-95.

Leonov, A.; Chicherina, O., Sulfate reduction in natural water bodies. 1. The effect of environmental factors and the measured rates of the process. *Water Resources* **2008,** *35*, (4), 417-434.

Leonov, A.; Chicherina, O., Sulfate reduction in natural water bodies: 2. Empirical models for process rate assessment. *Water Resources* **2008,** *35*, (5), 550-561.

Lewis, M. A., Use of freshwater plants for phytotoxicity testing: a review. *Environmental Pollution* **1995,** *87*, (3), 319-336.

Li, H. F.; Lombi, E.; Stroud, J. L.; McGrath, S. P.; Zhao, F. J., Selenium speciation in soil and rice: influence of water management and Se fertilization. *Journal of agricultural and food chemistry* **2010,** *58*, (22), 11837-11843.

Li, S.; Lissner, J.; Mendelssohn, I. A.; Brix, H.; Lorenzen, B.; McKee, K. L.; Miao, S., Nutrient and growth responses of cattail (Typha domingensis) to redox intensity and phosphate availability. *Annals of botany* **2010,** *105*, (1), 175-184.

Li, S.; Mendelssohn, I. A.; Chen, H.; OREM, W. H., Does sulphate enrichment promote the expansion of Typha domingensis (cattail) in the Florida Everglades? 1. *Freshwater Biology* **2009,** *54*, (9), 1909-1923.

Liesack, W.; Schnell, S.; Revsbech, N. P., Microbiology of flooded rice paddies. *FEMS Microbiology Reviews* **2000,** *24*, (5), 625-645.

Lin, L.; Webb, J.; Zhang, X. H., Involvement of Arbuscular Mycorrhizal Symbiosis in the Distribution of Sawgrass and Cattail in Florida Everglades. *Wetlands* **2011,** *31*, (2), 263-272.

Lissner, J.; Mendelssohn, I. A.; Anastasiou, C. J., A method for cultivating plants under controlled redox intensities in hydroponics. *Aquatic botany* **2003,** *76*, (2), 93-108.

Lissner, J.; Mendelssohn, I. A.; Lorenzen, B.; Brix, H.; McKee, K. L.; Miao, S. L., Interactive effects of redox intensity and phosphate availability on growth and nutrient relations of Cladium jamaicense (Cyperaceae). *American journal of botany* **2003,** *90*, (5), 736-748.

Liu, J.; Valsaraj, K. T.; Delaune, R., Inhibition of mercury methylation by iron sulfides in an anoxic sediment. *Environmental Engineering Science* **2009,** *26*, (4), 833-840.

Liu, Q.; Oelke, E. A.; Porter, R. A.; Reuter, R., Formation of panicles and hermaphroditic florets in wild-rice. *International journal of plant sciences* **1998**, 550-558.

Liu, W. J.; Zhu, Y. G.; Smith, F. A.; Smith, S., Do phosphorus nutrition and iron plaque alter arsenate (As) uptake by rice seedlings in hydroponic culture? *New Phytologist* **2004,** *162*, (2), 481-488.

Lively, R. S.; Thorleifson, L. H. *Minnesota soil, till, and ground-water geochemical data*; PFR-09-02; Minnesota Geological Survey: Univeristy of Minnesota, 2009.

Lodge, D. M.; Krabbenhoft, D. P.; Striegl, R. G., A positive relationship between groundwater velocity and submersed macrophyte biomass in Sparkling Lake, Wisconsin. *Limnology and Oceanography* **1989**, 235-239.

Longbottom, J.; Martin, T.; Edgell, K.; Long, S.; Plantz, M.; Warden, B., Determination of trace elements in water by inductively coupled plasma-mass spectrometry: collaborative study. *Journal of AOAC International* **1994,** *77*, (4), 1004-1022.

Lorenz, K.; Lund, D., Wild rice: the Indian's staple and the white man's delicacy. *Critical Reviews in Food Science & Nutrition* **1981,** *15*, (3), 281-319.

Lougheed, V. L.; Crosbie, B.; Chow-Fraser, P., Predictions on the effect of common carp (Cyprinus carpio) exclusion on water quality, zooplankton, and submergent macrophytes in a Great Lakes wetland. *Canadian Journal of Fisheries and Aquatic Sciences* **1998,** *55*, (5), 1189-1197.

Lougheed, V. L.; Crosbie, B.; Chow-Fraser, P., Primary determinants of macrophyte community structure in 62 marshes across the Great Lakes basin: latitude, land use, and water quality effects. *Canadian Journal of Fisheries and Aquatic Sciences* **2001,** *58*, (8), 1603-1612.

Lovley, D. R., Dissimilatory Fe (III) and Mn (IV) reduction. *microbiological reviews* **1991,** *55*, (2), 259.

Lovley, D. R.; Goodwin, S., Hydrogen concentrations as an indicator of the predominant terminal electron-accepting reactions in aquatic sediments. *Geochimica et Cosmochimica Acta* **1988,** *52*, (12), 2993-3003.

Lovley, D. R.; Klug, M. J., Model for the distribution of sulfate reduction and methanogenesis in freshwater sediments. *Geochimica et Cosmochimica Acta* **1986,** *50*, (1), 11-18.

Lovley, D. R.; Klug, M. J., Sulfate reducers can outcompete methanogens at freshwater sulfate concentrations. *Applied and Environmental Microbiology* **1983,** *45*, (1), 187-192.

Lovley, D. R.; Phillips, E. J. P., Competitive mechanisms for inhibition of sulfate reduction and methane production in the zone of ferric iron reduction in sediments. *Applied and Environmental Microbiology* **1987,** *53*, (11), 2636-2641.

Lu, Y.; Waller, D. M.; David, P., Genetic variability is correlated with population size and reproduction in American wild-rice (Zizania palustris var. palustris, Poaceae) populations. *American journal of botany* **2005,** *92*, (6), 990-997.

Lucassen, E. C.; Smolders, A. J. P.; Boedeltje, G.; Munckhof, P. J. J.; Roelofs, J., Groundwater input affecting plant distribution by controlling ammonium and iron availability. *Journal of Vegetation Science* **2006,** *17*, (4), 425-434.

Lucassen, E. C.; Smolders, A. J. P.; Lamers, L. P. M.; Roelofs, J. G. M., Water table fluctuations and groundwater supply are important in preventing phosphate-eutrophication in sulphate-rich fens: consequences for wetland restoration. *Plant and Soil* **2005,** *269*, (1), 109-115.

Lucassen, E.; PSmolders, A.; Van de Crommenacker, J.; Roelofs, J., Effects of stagnating sulphate-rich groundwater on the mobility of phosphate in freshwater wetlands: a field experiment. *Archiv für Hydrobiologie* **2004,** *160*, (1), 117-131.

Lucassen, E.; Smolders, A.; Roelofs, J., Effects of temporary desiccation on the mobility of phosphorus and metals in sulphur-rich fens: differential responses of sediments and consequences for water table management. *Wetlands Ecology and Management* **2005,** *13*, (2), 135-148.

Lucassen, E.; Smolders, A.; Roelofs, J., Potential sensitivity of mires to drought, acidification and mobilisation of heavy metals: the sediment S/(Ca+ Mg) ratio as diagnostic tool. *Environmental pollution* **2002,** *120*, (3), 635-646.

Lucassen, E.; Smolders, A.; Van der Salm, A.; Roelofs, J., High groundwater nitrate concentrations inhibit eutrophication of sulphate-rich freshwater wetlands. *Biogeochemistry* **2004,** *67*, (2), 249-267.

Lueders, T.; Friedrich, M., Archaeal population dynamics during sequential reduction processes in rice field soil. *Applied and Environmental Microbiology* **2000,** *66*, (7), 2732-2742.

Luther III, G. W.; Brendel, P. J.; Lewis, B. L.; Sundby, B.; Lefrancois, L.; Silverberg, N.; Nuzzio, D. B., Simultaneous measurement of O2, Mn, Fe, I-, and S (-II) in marine pore waters with a solid-state voltammetric microelectrode. *Limnology and Oceanography* **1998**, 325-333.

Luther, G. W., Acid volatile sulfide—a comment. *Marine Chemistry* **2005,** *97*, (3), 198-205.

Lyden, T. G. Relationships of Aquatic Macrophytes to Sediment and Groundwater Characteristics in McDill Pond--Implications for Lake Management. University of Wisconsin--Stevens Point, 2000.

Lyons, G. H.; Lewis, J.; Lorimer, M. F.; Holloway, R. E.; Brace, D. M.; Stangoulis, J. C. R.; Graham, R. D., High-selenium wheat: agronomic biofortification strategies to improve human nutrition. *Food Agric Environ* **2004,** *2*, (1), 171-178.

Lytle, J. S.; Lytle, T. F., Use of plants for toxicity assessment of estuarine ecosystems. *Environmental Toxicology and Chemistry* **2001,** *20*, (1), 68-83.

Ma, J. F.; Yamaji, N., Silicon uptake and accumulation in higher plants. *Trends in plant science* **2006,** *11*, (8), 392-397.

Madsen, J. D.; Wersal, R. M.; Getsinger, K. D.; Nelson, L. S., Sensitivity of wild rice (*Zizania palustris* L.) to the aquatic herbicide triclopyr. *J. Aquat. Plant Management* **2008,** *46*, 150-154.

Magee, T. K.; Kentula, M. E., Response of wetland plant species to hydrologic conditions. *Wetlands ecology and management* **2005,** *13*, (2), 163-181.

Magneschi, L.; Kudahettige, R.; Alpi, A.; Perata, P., Comparative analysis of anoxic coleoptile elongation in rice varieties: relationship between coleoptile length and carbohydrate levels, fermentative metabolism and anaerobic gene expression. *Plant Biology* **2009,** *11*, (4), 561-573.

Mäkelä, P.; ARCHIBOLD, W.; Peltonen-Sainio, P., Wild rice-a potential new crop for Finland. *Agriculture and Food Science in Finland* **1998,** *7*, 583–597.

Malvick, D.; Percich, J., Hydroponic culture of wild rice (*Zizania palustris* L.) and its application to studies of silicon nutrition and fungal brown spot disease. *Canadian journal of plant science* **1993,** *73*, (4), 969-975.

Manous Jr, J. D.; Gantzer, C. J.; Stefan, H. G., Fermentation-Limited Sulfate Reduction in a Saline Lake. In 2004.

Marschall, C.; Frenzel, P.; Cypionka, H., Influence of oxygen on sulfate reduction and growth of sulfate-reducing bacteria. *Archives of Microbiology* **1993,** *159*, (2), 168-173.

Marschall, C.; Frenzel, P.; Cypionka, H., Influence of oxygen on sulfate reduction and growth of sulfate-reducing bacteria. *Arch Microbiol* **1993,** *159*, 168-173.

Massa, G. D.; Kim, H. H.; Wheeler, R. M.; Mitchell, C. A., Plant productivity in response to LED lighting. *HortScience* **2008,** *43*, (7), 1951-1956.

Mather, D. J.; Abel, E. J. *The Lake Onamia-Trunk Highway 169 Data Recovery Project, Mille Lacs County, Minnesota*; Loucks Associates: 2000.

Matsuda, R.; Ohashi-Kaneko, K.; Fujiwara, K.; Goto, E.; Kurata, K., Photosynthetic characteristics of rice leaves grown under red light with or without supplemental blue light. *Plant and cell physiology* **2004,** *45*, (12), 1870-1874.

Mattson, R. A., A resource-based framework for establishing freshwater inflow requirements for the Suwannee River estuary. *Estuaries and Coasts* **2002,** *25*, (6), 1333-1342.

Mayer, F. L. J.; Ellersieck, M. R., Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicalsand 66 Species of Freshwater Animals. In *U.S.Dep.Interior, Fish Wildl.Serv.*, 1986; Vol. 160.

Maynard, J. J.; O'Geen, A. T.; Dahlgren, R. A., Sulfide induced mobilization of wetland phosphorus depends strongly on redox and iron geochemistry. *Soil Science Society of America Journal* **2011,** *75*, (5), 1986-1999.

McAndrews, J. H., Paleobotany of a wild rice lake in Minnesota. *Canadian Journal of Botany* **1969,** *47*, (11), 1671-1679.

McAndrews, J. H., The Lake Onamia - Trunk Highway 169 Data Recovery Project Mille Lacs County, Minnesota. In Transportation, M. D. o., Ed. 2000; Vol. 2.

McAndrews, J. H., Wild rice and forest history at Lake Ogechie in Minnesota. In 2006.

McKee, K. L., Soil physicochemical patterns and mangrove species distribution - reciprocal effects? *Journal of Ecology* **1993,** *81*, 477-487.

McNaughton, S.; Tarrants, J.; McNaughton, M.; Davis, R., Silica as a defense against herbivory and a growth promotor in African grasses. *Ecology* **1985**, 528-535.

Minnesota Department of Health, MDH analyses all methods Jan 2011. In Section, M. D. o. H. E. L., Ed. 2011.

Meays, C. N., Rick, Ambient Water Quality Guidelines For Sulphate Technical Appendix Update In Environment, B. C. M. O., Ed. Water Protection & Sustainability Branch Environmental Sustainability and Strategic Policy Division: Victoria, British Columbia, 2012.

Meeker, J. E., Wild-rice and sedimentation processes in a Lake Superior coastal wetland. *Wetlands* **1996,** *16*, (2), 219-231.

Mendelssohn, I. A.; Kleiss, B. A.; Wakeley, J. S., Factors controlling the formation of oxidized root channels:a review. *Wetlands* **1995,** *15*, (1), 37-46.

Mendelssohn, I. A.; Li, S.; Chen, H.; Orem, W., The potential role of sulfide in influencing plant distribution in the everglades. In 2009.

Meyer, J. S.; Sanchez, D. A.; Brookman, J. A.; McWhorter, D. B.; Bergman, H. L., Chemistry and Aquatic Toxicity of Raw Oil Shale Leachates from Piceance Basin, Colorado. *Environ. Toxicol. Chem.* **1985,** *4*, 559-572.

Meyer, M. L., *The White Earth Tragedy: Ethnicity and Dispossession at a Minnesota Anishinaabe Reservation.* University of Nebraska Press: Lincoln, 1994.

Middleton, A. C.; Lawrence, A. W., Kinetics of microbial sulfate reduction. *Journal (Water Pollution Control Federation)* **1977**, 1659-1670.

Miletto, M. B., P. L. E.; Ferdelman, T. G.; Jørgensen, B. B.; Laanbroek, H. J. , Effect of the aerenchymatous helophyte Glyceria maxima on the sulfate-reducing communities in two contrasting riparian grassland soils *Plant Soil* **2013,** *370*, (1-2), 73-87.

Miletto, M. L., Alexander; Antheunisse, A. Martijn; Loeb, Roos; Bodelier, Paul L.E.; Laanbroek, Hendrikus J., Biogeography of sulfate-reducing prokaryotes in river floodplains. *FEMS Microbiology Ecology* **2008,** *64*, 395-406.

Minntac *Minntac Water Inventory Reduction Environmental Impact Statement: Final Wild Rice Technical Memo*; 2004.

Minntac *Minntac Water Inventory Reduction Environmental Impact Statement: Surface Water Hydrology and Quality Technical Memo*; 2004.

Mitchell, M.; David, M.; Uutala, A., Sulfur distribution in lake sediment profiles as an index of historical depositional patterns. *Hydrobiologia* **1985,** *121*, (2), 121-127.

MNDNR, Shallow Lake Program Plan. In 2010.

MNDNR, Wildlife Lake Habitat Survey Report. In 2003.

MNDNR, Wildlife Lake Habitat Survey Report. In 2003.

MNDNR, Wildlife Lake Habitat Survey Report. In 2003.

MNDNR, Wildlife Lake Habitat Survey Report. In 2003.

MNDNR, Wildlife Lake Habitat Survey Report. In 2006.

MNDNR, Wildlife Lake Habitat Survey Report. In 2006.

MNDNR, Wildlife Lake Habitat Survey Report. In 2007.

MNDNR, Wildlife Lake Habitat Survey Report. In 2007.

MNDNR, Wildlife Lake Habitat Survey Report. In 2007.

MNDNR, Wildlife Lake Habitat Survey Report. In 2007.

MNDNR, Wildlife Lake Habitat Survey Report. In 2008.

MNDNR, Wildlife Lake Habitat Survey Report. In 2009.

MNDNR, Wildlife Lake Habitat Survey Report. In 2009.

MNDNR, Wildlife Lake Habitat Survey Report. In 2009.

MNDNR, Wildlife Lake Habitat Survey Report. In 2010.

MNDNR, Wildlife Lake Habitat Survey Report. In 2011.

MNDNR, Wildlife Lake Habitat Survey Report. In 2011.

MNDNR, Wildlife Lake Habitat Survey Report. In 2012.

Mooney, S. J. P., T. P.;Helliwell, J.;Bennett, M. J. , Developing X-ray Computed Tomography to non-invasively image 3-D root systems architecture in soil. *Plant Soil* **2012,** *352*, 1-22.

Moore, D. R. J.; Caux, P. Y., Estimating low toxic effects. *Environmental Toxicology and Chemistry* **2009,** *16*, (4), 794-801.

Morris, C.; Grossl, P. R.; Call, C. A., Elemental allelopathy: processes, progress, and pitfalls. *Plant Ecology* **2009,** *202*, (1), 1-11.

Morrow, R. C.; Wheeler, R. M., Plant physiological disorders. In 1997.

Morse, J. W.; Millero, F. J.; Cornwell, J. C.; Rickard, D., The chemistry of the hydrogen sulfide and iron sulfide systems in natural waters. *Earth-Science Reviews* **1987,** *24*, (1), 1-42.

Mortimer, C. H., The Exchange of Dissolved Substances between Mud and Water in Lakes. *Journal of Ecology* **1942,** *30*, (1), 147-201.

Mount, D. R.; Gulley, D. D. *Development of a Salinity/Toxicity Relationship to Predict Acute Toxicity of Saline Waters to Freshwater Organisms*; Chicago, IL, 1992; p 146.

Mount, D. R.; Gulley, D. D.; Hockett, J. R.; Garrison, T. D.; Evans, J. M., Statistical Models to Predict the Toxicity of Major Ions to Ceriodaphnia dubia, Daphnia magna and Pimephales promelas (Fathead Minnows). *Environ. Toxicol. Chem.* **1997,** *16*, (10).

Moyle, J. B., Manomin: Minnesota's Native Cereal. *Minnesota Conservation Volunteer* 1945.

Moyle, J. B., Minnesota's Famous Wild Rice. *Minnesota Conservation Volunteer* 1957.

Moyle, J. B., Minnesota's Wild Rice Crop. *Minnesota Conservation Volunteer* 1941.

Moyle, J. B., Relationships between the chemistry of Minnesota surface waters and wildlife management. *The Journal of Wildlife Management* **1956,** *20*, (3), 303-320.

Moyle, J. B., Review of Relationship of Wild Rice to Sulfate Concentration of Waters. In Agency, M. P. C., Ed. 1975.

Moyle, J. B., Some chemical factors influencing the distribution of aquatic plants in Minnesota. *American Midland Naturalist* **1945,** *34*, (2), 402-420.

Moyle, J. B., The 1941 Minnesota Wild Rice Crop. In Fish, D. o. G. a., Ed. 1942.

Moyle, J. B., Wild Rice - Pioneer Food and Modern Delicacy. *Minnesota Conservation Volunteer* 1956.

Moyle, J. B., Wild rice in Minnesota. *The Journal of Wildlife Management* **1944,** *8*, (3), 177-184.

Moyle, J. B.; Krueger, P., Wild Rice in Minnesota. *MInnesota Conservation Volunteer* 1964.

MPCA., MP&L Clay Boswell Permit Hearing Testimony Excerpts. In Agency, M. P. C., Ed. 1975.

MPCA., The Sulfate Standard to Protect Wild Rice Study Protocol. In 2011.

Muench, D. G.; Archibold, O. W.; Good, A. G., Hypoxic metabolism in wild rice (*Zizania palustris*): enzyme induction and metabolite production. *Physiologia Plantarum* **1993,** *89*, (1), 165-171.

Munns, R.; Clark, G. Hoaglund's Nutrient Solution. http://prometheuswiki.publish.csiro.au/tiki-index.php?page=Hoagland's+nutrient+solution

Murase, J.; Kimura, M., Anaerobic reoxidation of Mn2+, Fe2+, S0 and S2–in submerged paddy soils. *Biology and fertility of soils* **1997,** *25*, (3), 302-306.

Murty, M.; Ladha, J., Influence of Azospirillum inoculation on the mineral uptake and growth of rice under hydroponic conditions. *Plant and soil* **1988,** *108*, (2), 281-285.

Muyzer, G.; Stams, A. J. M., The ecology and biotechnology of sulphate-reducing bacteria. *Nature Reviews Microbiology* **2008,** *6*, (6), 441-454.

Myers, C. R. N., Kenneth, Microbial reduction of manganese oxides: Interactions with iron and sulfur. *Geochimica et Cosmochimica Acla* **1988,** *52*, 2727-2732.

Nanzyo, M. Y., Hidenori; Kanno, Hitoshi; Taka, Tadashi Formation of iron plaque and vivianite on the roots of paddy rice. In *World Congress of Soil Science, Soil Solutions for a Changing World*, International Union of Soil Sciences Brisbane, Australia, 2010.

Nanzyo, M. Y., Hidenori; Sasaki, Kana; Ito, Kumiko; Aikawa, Yoshio; Kanno, Hitoshi; Takahashi, Tadashi Identification of vivianite formed on the roots of paddy rice grown in pots. *Soil Science and Plant Nutrition* **2010,** *56*, 376–381.

Nealson, K. H., Sediment bacteria: who's there, what are they doing, and what's new? *Annual Review of Earth and Planetary Sciences* **1997,** *25*, (1), 403-434.

Neff, B. P. Analysis of factors limiting macrophyte growth near freshwater springs in a mesotrophic lake in north-central Minnesota, USA. MS thesis, Geology Department, University of Colorado-Denver, 2001.

Nelson, L. S.; Owens, C. S.; Getsinger, K. D. *Response of wild rice to selected aquatic herbicides*; DTIC Document: 2003.

Nelson, R. N.; Dahl, R. P. *The wild rice industry: economic analysis of rapid growth and implications for Minnesota*; University of Minnesota, Department of Applied Economics: 1986.

Neori, A.; Reddy, K. R.; Čížková-Končalová, H.; Agami, M., Bioactive chemicals and biological—biochemical activities and their functions in rhizospheres of wetland plants. *The Botanical Review* **2000,** *66*, (3), 350-378.

Neue, H.; Quijano, C.; Senadhira, D.; Setter, T., Strategies for dealing with micronutrient disorders and salinity in lowland rice systems. *Field Crops Research* **1998,** *56*, (1), 139-155.

Nichols, S. A.; Shaw, B., The Influence of Groundwater Flow on the Distribution and Abundance of Aquatic Plants in Some Wisconsin Lakes. *Journal of Freshwater Ecology* **2002,** *17*, (2), 283-295.

Niemi, Wild about ricing. *Minnesota Conservation Volunteer* 2004.

Nimmo, D. W. R.; Preul, M. A.; Castle, C. J.; Self, J. R.; Pillsbury, R. W.; Bergey, E. A., Effects of ExcessCopper on Growth of Wild Rice (Zizania palustris) Seedlings Tested in Reconstituted and Natural Waters. *Environmental management* **2003,** *32*, (4), 466-475.

Nordstrom, D.; Wilde, F., Reduction-oxidation potential (electrode method). In Survey, U. S. G., Ed. 2005.

Norrgard, R.; Drotts, G.; Drewes, A.; Dietz, D. *Minnesota natural wild rice harvester survey: a study of harvesters' activities and opinions*; 2007.

Nozoe, T.; Shinano, T.; Tachibana, M.; Uchino, A., Tolerance of rice (Oryza sativa L.) and Echinochloa weeds to growth suppression by rice straw added to paddy soil in relation to Iron toxicity. *Plant production science* **2010,** *13*, (3), 314-318.

Nriagu, J. O.; Lin, T. S., Trace metals in wild rice sold in the United States. *Science of the total environment* **1995,** *172*, (2), 223-228.

Oelke, E. A., *Commercial production of wild rice*. Agricultural Extension Service, University of Minnesota: 1973.

Oelke, E. A., Wild rice production in Minnesota. *Minnesota. University. Agricultural Extension Service. Extension bulletin* **1982**.

Oelke, E. A.; Teynor, T. M.; Carter, P. R.; Percich, J. A.; Noetzel, D. M.; Bloom, P. R.; Porter, R.; Schertz, C. E.; Boedicker, J. J.; Fuller, E. I., Alternative Field Crops Manual: Wild Rice. In Wisconsin-Extension, U. o.; Products, U. o. M. C. f. A. P. A.; Service, M. E., Eds. 1997.

Oelke, E., Amino acid content in wild rice (Zizania aquatica L.) grain. *Agronomy Journal* **1976,** *68*, (1), 146-148.

Oelke, E.; Albrecht, K., Influence of chemical seed treatments on germination of dormant wild rice seeds. *Crop Science* **1980,** *20*, (5), 595-598.

Oelke, E.; Albrecht, K., Mechanical scarification of dormant wild rice seed. *Agronomy Journal* **1978,** *70*, (4), 691-694.

Oelke, E.; Bloom, P.; Porter, R.; Liu, Q.; Williamson, L.; Dlutkowski, L.; McCammon Soltis, A. In *Wild rice plant development and seed physiology*, Proceedings of the Wild Rice Research and Management Conference, Carlton, Minnesota, 1999; Carlton, Minnesota, 1999; pp 7-8.

Oelke, E.; McClellan, M.; Leif, J., Wild rice production research. *Minnesota wild rice research* **1989**, 1-15.

Ogan, M., Potential for nitrogen fixation in the rhizosphere and habitat of natural stands of the wild rice Zizania aquatica. *Canadian Journal of Botany* **1979,** *57*, (11), 1285-1291.

Ohashi-Kaneko, K.; Matsuda, R.; Goto, E.; Fujiwara, K.; Kurata, K., Growth of rice plants under red light with or without supplemental blue light. *Soil Science and Plant Nutrition* **2006,** *52*, 444-452.

Okabe, S.; Characklis, W., Effects of temperature and phosphorous concentration on microbial sulfate reduction by Desulfovibrio desulfuricans. *Biotechnology and bioengineering* **1992,** *39*, (10), 1031-1042.

Okabe, S.; Nielsen, P.; Charcklis, W., Factors affecting microbial sulfate reduction by Desulfovibrio desulfuricans in continuous culture: limiting nutrients and sulfide concentration. *Biotechnology and bioengineering* **2004,** *40*, (6), 725-734.

Olszyke, D.; Pfleeger, T.; Lee, E. H.; Burdick, C.; King, G.; Plocher, M.; Kern, J., Selecting and evaluating native plants for region-specific phytotoxicity testing. *Integrated Environmental Assessment and Management* **2008,** *4*, (1), 105-117.

O'Melia, C. R., Coagulation and sedimentation in lakes, reservoirs and water treatment plants. *Water science and technology* **1998,** *37*, (2), 129-135.

Ong, J. B.; Zlotnik, V. A., Assessing lakebed hydraulic conductivity and seepage flux by potentiomanometer. *Ground Water* **2010,** *49*, (2), 270-274.

Orem, W. H., Sulfur contamination in the Florida Everglades: Initial examination of mitigation strategies. *strategies* **2007,** *2007*, 1374.

Orem, W.; Gilmour, C.; Axelrad, D.; Krabbenhoft, D.; Scheidt, D.; Kalla, P.; McCormick, P.; Gabriel, M.; Aiken, G., Sulfur in the South Florida Ecosystem: Distribution, sources, biogeochemistry, impacts, and management for restoration. *Critical Reviews in Environmental Science and Technology* **2011,** *41*, (S1), 249-288.

Oseid, D. M. J., Chronic Toxicity of Hydrogen Sulfide to Gammarus pseudolimnaeus. *Trans. Am. Fish. Soc* **1974,** *103*.

Oseid, D. M. J., Factors Influencing Acute Toxicity Estimates of Hydrogen Sulfide to Freshwater Invertebrates. *Water Res.* **1974,** *8*.

Oseid, D. M. J., Long-Term Effects of Hydrogen Sulfide on Hexagenia limbata (Ephemeroptera). *Environ. Entomol.* **1975,** *4*.

Otte, M. L., What is stress to a wetland plant? *Environmental and Experimental botany* **2001,** *46*, (3), 195-202.

Otte, M.; Matthews, D.; Jacob, D.; Moran, B.; Baker, A., Biogeochemistry of metals in the rhizosphere of wetland plants–an explanation for "innate"metal tolerance. *Developments in ecosystems* **2004,** *1*, 87-94.

Pahl, J. W. The combined effects of salinity and sulfide on the growth and physiology of the freshwater marsh plant Panicum hemitomon JA Schultes. Louisiana State University, 2002.

Painchaud, D.; Archibold, O., The effect of sediment chemistry on the successful establishment of wild rice (*Zizania palustris* L.) in northern Saskatchewan water bodies. *Plant and soil* **1990,** *129*, (2), 109-116.

Palumbo, A. J.; TenBrook, P. L.; Fojut, T. L.; Faria, I. R.; Tjeerdema, R. S., Aquatic life water quality crteria derived via the UC Davis method: I. Organophosphate insecticides. *Aquatic life water quality criteria for selected pesticides* **2012**, 1-49.

Palumbo, A.; TenBrook, P.; Phipps, A.; Tjeerdema, R., Comparative toxicity of thiobencarb and deschlorothiobencarb to rice (*Oryza sativa*). *Bulletin of environmental contamination and toxicology* **2004,** *73*, (1), 213-218.

Parent, C.; Capelli, N.; Berger, A.; Crèvecoeur, M.; Dat, J. F., An overview of plant responses to soil waterlogging. *Plant Stress* **2008,** *2*, (1), 20-27.

Park, Y.; Tanaka, A., Studies of the rice plant on an "akiochi" soil in Korea. *Soil Science and Plant Nutrition* **1968,** *14*, (1), 27-34.

Pastor, J.; Durkee Walker, R., Delays in nutrient cycling and plant population oscillations. *Oikos* **2006,** *112*, (3), 698-705.

Patrick, R.; J., J. C.; Scheier, A., The Relative Sensitivity of Diatoms, Snails, and Fish to Twenty Common Constituents of Industrial Wastes. *Prog. Fish-Cult.* **1968,** *30*, (3), 137-140.

Patrick, W. H.; Turner, F., Effect of redox potential on manganese transformation in waterlogged soil. *Nature* **1968,** *220*, 476-478.

Patrick, W.; Verloo, M., Distribution of soluble heavy metals between ionic and complexed forms in a saturated sediment as affected by pH and redox conditions. *Water science and technology* **1998,** *37*, (6), 165-171.

Peden, D. G., Factors associated with growth of wild rice in northern Saskatchewan. *Arctic* **1982**, 307-311.

Pedersen, O.; Binzer, T.; Borum, J., Sulphide intrusion in eelgrass (*Zostera marina* L.). *Plant, Cell & Environment* **2004,** *27*, (5), 595-602.

Pennington, D. W., Extrapolating ecotoxicological measures from small data sets. *Ecotoxicology and environmental safety* **2003,** *56*, (2), 238-250.

Perata, P.; Voesenek, L. A. C. J., Submergence tolerance in rice requires Sub1A, an ethylene-response-factor-like gene. *Update* **2007,** *12*, (2).

Percich, J.; Nyvall, R.; Malvick, D.; Kohls, C., Interaction of temperature and moisture on infection of wild rice by Bipolaris oryzae in the growth chamber. *Plant disease* **1997,** *81*, (10), 1193-1195.

Perkins, R.; Underwood, G., The potential for phosphorus release across the sediment–water interface in an eutrophic reservoir dosed with ferric sulphate. *Water Research* **2001,** *35*, (6), 1399-1406.

Perry, J. E.; Atkinson, R. B., Plant diversity along a salinity gradient of four marshes on the York and Pamunkey Rivers in Virginia. *Castanea* **1997**, 112-118.

Perry, J. E.; Hershner, C. H., Temporal changes in the vegetation pattern in a tidal freshwater marsh. *Wetlands* **1999,** *19*, (1), 90-99.

Pester, M. H., Klaus; Friedrich, Michael; Wagner, Michael; Loy, Alexander Sulfate-reducing microorganisms in wetlands – fameless actors in carbon cycling and climate change. *Frontiers in Microbiology* **2012,** *3*, (72).

Pezeshki, S., Wetland plant responses to soil flooding. *Environmental and Experimental Botany* **2001,** *46*, (3), 299-312.

Pezeshki, S.; DeLaune, R., Soil Oxidation-Reduction in Wetlands and Its Impact on Plant Functioning. *Biology* **2012,** *1*, (2), 196-221.

Pezeshki, S.; DeLaune, R.; Pan, S., Relationship of soil hydrogen sulfide level to net carbon assimilation of Panicum hemitomon and Spartina patens. *Plant Ecology* **1991,** *95*, (2), 159-166.

Pfleeger, T., Moving plant toxicology from the greenhouse to the field: a method that incorporates the positive attributes of each. *Bulletin of environmental contamination and toxicology* **2005,** *74*, (1), 16-23.

Pickard, J.; McKee, P.; Stroiazzo, J., Site Specific Multi-Species Toxicity Testing of Sulphate and Molybdenum Spiked Mining Effluent and Receiving Water. In *Proceedings of the 1999 Workshop on Molybdenum Issues in Reclamation, British Columbia* Price, W. A. H., B.; Howel, C., Ed. Bitech Publishers: Richmond, British Columbia, Canada, 1999; pp 86-95.

Pillsbury, R. W.; McGuire, M. A., Factors affecting the distribution of wild rice (Zizania palustris) and theassociated macrophyte community. *Wetlands* **2009,** *29*, (2), 724-734.

Pip, E., Cadmium, copper and lead in wild rice from central Canada. *Archives of environmental contamination and toxicology* **1993,** *24*, (2), 179-181.

Pip, E., Ecogeographical tolerance range variation in aquatic macrophytes. *Hydrobiologia* **1984,** *108*, (1), 37-48.

Pip, E., Niche congruency of aquatic macrophytes in central North America with respect to 5 water chemistry parameters. *Hydrobiologia* **1988,** *162*, (2), 173-182.

Pip, E., The ecology of Potamogeton species in central North America. *Hydrobiologia* **1987,** *153*, (3), 203-216.

Pip, E., Water temperature and freshwater macrophyte distribution. *Aquatic botany* **1989,** *34*, (4), 367-373.

Pip, E.; Stepaniuk, J., The effect of flooding on wild rice, *Zizania aquatica* L. *Aquatic botany* **1988,** *32*, 283-290.

Pitts, G.; Allam, A.; Hollis, J. P., Aqueous iron-sulfur systems in rice field soils of Louisiana. *Plant and Soil* **1972,** *36*, (1), 251-260.

Postma, D.; Jakobsen, R., Redox zonation: Equilibrium constraints on the Fe (III)/SO< sub> 4</sub>-reduction interface. *Geochimica et Cosmochimica Acta* **1996,** *60*, (17), 3169-3175.

Minnesota Power., *Unit 3 Fly Ash Pond Discharge Study for the For the Clay Boswell Steam Electric Station*; Minnesota Power: 1988.

Preston, B. L., Indirect effects in aquatic ecotoxicology: implications for ecological risk assessment. *Environmental Management* **2002,** *29*, (3), 311-323.

Price, M. W. Spectral Identification of Wild Rice (Zizania palustris L.) Using Local Indigenous Knowledge and Landsat Multispectral Data. University of Montana - Missoula, 2012.

Probert, R. J.; Fenner, M., The role of temperature in the regulation of seed dormancy and germination. *Seeds: the ecology of regeneration in plant communities* **2000,** *261*, 292.

Probert, R.; Longley, P., Recalcitrant seed storage physiology in three aquatic grasses (Zizania palustris, Spartina anglica and Porteresia coarctata). *Annals of Botany* **1989,** *63*, (1), 53-64.

Bois Forte Department of Natural Resources Water Quality Program., *Sulfate and Sulfide Residuals in Water and Sediment, Sandy River and Pike River, Fall-Winter 2000*; 2001.

Puckett, L. J.; Cowdery, T. K.; McMahon, P. B.; Tornes, L. H.; Stoner, J. D., Using chemical, hydrologic, and age dating analysis to delineate redox processes and flow paths in the riparian zone of a glacial outwash aquifer-stream system. *Water Resources Research* **2002,** *38*, (8), 1134.

Puttaswamy, N.; Liber, K., Influence of inorganic anions on metals release from oil sands coke and on toxicity of nickel and vanadium to Ceriodaphnia dubia. *Chemosphere* **2012,** *86*, (5), 521-529.

Qiu, Y.; Liu, Q.; Beta, T., Antioxidant activity of commercial wild rice and identification of flavonoid compounds in active fractions. *Journal of agricultural and food chemistry* **2009,** *57*, (16), 7543-7551.

Quayyum, H. A.; Mallik, A.; Lee, P. F., Allelopathic potential of aquatic plants associated with wild rice (Zizania palustris): I. Bioassay with plant and lake sediment samples. *Journal of chemical ecology* **1999,** *25*, (1), 209-220.

Radomski, P.; Perleberg, D., Application of a versatile aquatic macrophyte integrity index for Minnesota lakes. *Ecological Indicators* **2012,** *20*, 252-268.

Radtke, D. B.; Busenberg, E.; Wilde, F.; Kurklin, J. K., pH. In Society, U. S. G., Ed. 1998.

Rahman, M. M.; Azizur Rahman, M.; Maki, T.; Hasegawa, H., Phytotoxicity of arsenate and salinity on early seedling growth of rice (oryza sativa l.): A threat to sustainable rice cultivation in South and South-East Asia. *Bulletin of environmental contamination and toxicology* **2012**, 1-8.

Ratcliff, W. C.; Hawthorne, P.; Travisano, M.; Denison, R. F., When stress predicts a shrinking gene pool, trading early reproduction for longevity can increase fitness, even with lower fecundity. *PloS one* **2009,** *4*, (6), e6055.

Ratering, S.; Schnell, S., Localization of iron-reducing activity in paddy soil by profile studies. *Biogeochemistry* **2000,** *48*, 341-365.

Ratering, S.; Schnell, S., Nitrate-dependent iron (II) oxidation in paddy soil. *Environmental microbiology* **2001,** *3*, (2), 100-109.

Rearick, M. S. In situ measurement of sulfide in natural waters. University of Maryland, College Park, Graduate School of the University of Maryland, College Park, 2004.

Rehm, G.; Schmitt, M., Sulfur for Minnesota Soils. *Publication AGFO-0794. University of Minnesota Extension Service* **1989**.

Reschke, Appendix D: Taxa Presence and Absence in Each Lake. In 2006.

Reschke, Appendix F.6 Group Composition Summaries. In 2006.

Reschke, C. G. E. H. a. L. B. J., Evaluation of DNR Aquatic Vegetation Surveys: Data Summaries and Comparative Analysis. In Resources, M. D. o. N., Ed. Saint Paul, Minnesota, 2006.

Reynolds, F. A.; T.A., H., Effects of Chronic Exposure to Hydrogen Sulphide on Newly Hatched Brown Trout Salmo trutta L. *Environ. Pollut* **1980,** *22*.

Rice, C. E. Examining the effects of plant diversity and community composition on reducing conditions in the soil of experimental wetlands. The Ohio State University, 2009.

Richards, C. M.; Antolin, M. F.; Reilley, A.; Poole, J.; Walters, C., Capturing genetic diversity of wild populations for ex situ conservation: Texas wild rice (Zizania texana) as a model. *Genetic resources and crop evolution* **2007,** *54*, (4), 837-848.

Rickard, D.; Morse, J. W., Acid volatile sulfide (AVS). *Marine Chemistry* **2005,** *97*, (3), 141-197.

Rickard, D.; Schoonen, M. A. A.; Luther, G. In *Chemistry of iron sulfides in sedimentary environments*, ACS Symposium Series, 1995; ACS Publications: 1995; pp 168-193.

Roden, E. E.; McBeth, J. M.; Blöthe, M.; Percak-Dennett, E. M.; Fleming, E. J.; Holyoke, R. R.; Luther III, G. W.; Emerson, D.; Schieber, J., The microbial ferrous wheel in a neutral pH groundwater seep. *Frontiers in Microbiology* **2012,** *3*.

Rogosin, A., *An ecological history of wild rice*. Minnesota, Department of Conservation, Division of Game and Fish, Fisheries Research Unit. Game Research Unit: 1954.

Roman, C. T.; Barrett, N. E.; Portnoy, J. W., Aquatic vegetation and trophic condition ofCape Cod (Massachusetts, USA) kettle ponds. *Hydrobiologia* **2001,** *443*, (1), 31-42.

Roman, C. T.; Jaworski, N.; Short, F. T.; Findlay, S.; Warren, R. S., Estuaries of the northeastern United States: habitat and land use signatures. *Estuaries and Coasts* **2000,** *23*, (6), 743-764.

Ron Nelson, R. P. D. *Wild rice: competition between Minnesota and California*; University of Minnesota, St. Paul: Miscellaneous publication 41-1987, 1987, 1986; pp 86-91.

Rose, J.; Flank, A. M.; Masion, A.; Bottero, J. Y.; Elmerich, P., Nucleation and growth mechanisms of Fe oxyhydroxide in the presence of PO4 ions. 2. P K-edge EXAFS study. *Langmuir* **1997,** *13*, (6), 1827-1834.

Rose, J.; Manceau, A.; Bottero, J. Y.; Masion, A.; Garcia, F., Nucleation and growth mechanisms of Fe oxyhydroxide in the presence of PO4 ions. 1. Fe K-edge EXAFS study. *Langmuir* **1996,** *12*, (26), 6701-6707.

Rosenberry, D. O., Integrating seepage heterogeneity with the use of ganged seepage meters. *Limnol. Oceanogr. Methods* **2005,** *3*, 131-142.

Rosenberry, D. O.; Striegl, R. G.; Hudson, D. C., Plants as indicators of focused ground water discharge to a northern Minnesota lake. *Ground Water* **2000,** *38*, (2), 296-303.

Rudd, J. W. M.; Kelly, C.; Furutani, A., The role of sulfate reduction in long term accumulation of organic and inorganic sulfur in lake sediments. *Limnology and Oceanography* **1986**, 1281-1291.

Sadeghpour, A.; Jahanzad, E., Response of hydroponically grown tomato and solution acidity to ammonium as a nutrient solution. *Australian Journal of Agricultural Engineering* **2012,** *3*, (1), 18-21.

Sahrawat, K., Iron toxicity in wetland rice and the role of other nutrients. *Journal of Plant Nutrition* **2005,** *27*, (8), 1471-1504.

Sain, P., Decomposition of wild rice (Zizania aquatica) straw in two natural lakes of northwestern Ontario. *Canadian journal of botany* **1984,** *62*, (7), 1352-1356.

Sarmiento, A. M.; DelValls, A.; Nieto, J. M.; Salamanca, M. J.; Caraballo, M. A., Toxicity and potential risk assessment of a river polluted by acid mine drainage in the Iberian Pyrite Belt (SW Spain). *Science of the Total Environment* **2011,** *409*, (22), 4763-4771.

Sasser, M., Technical Note #101 - Identification of bacteria by gas chromatography of cellular fatty acids. In Microbial IDentification Inc: Newark, DE 2001.

Scheid, D. S., Stephan Structure and diversity of Gram-negative sulfate-reducing bacteria on rice roots. *FEMS Microbiology Ecology* **2001,** *36*, 175-183.

Scheid, D.; Stubner, S.; Conrad, R., Identification of rice root associated nitrate, sulfate and ferric iron reducing bacteria during root decomposition. *FEMS microbiology ecology* **2004,** *50*, (2), 101-110.

Schindler, D. W., Whole-ecosystem experiments: replication versus realism: the need for ecosystem-scale experiments. *Ecosystems* **1998,** *1*, (4), 323-334.

Schindler, D., Evolution of phosphorus limitation in lakes. *Science* **1977,** *195*, (4275), 260-262.

Schmidt, H. E., Thilo; Mubmann, Marc Gold-FISH: A new approach for the in situ detection of single microbial cells combining fluorescence and scanning electron microscopy. *Systematic and Applied Microbiology* **2012,** *35*, 518-525.

Academy of Natural Sciences., *The Sensitivity of Aquatic Life to Certain Chemicals Commonly Found in Industrial Wastes*; US Public Health Service: Washington, D.C., 1960.

Sebestyen, S. D.; Schneider, R. L., Seepage patterns, pore water, and aquatic plants: hydrological and biogeochemical relationships in lakes. *Biogeochemistry* **2004,** *68*, (3), 383-409.

Sederias, J. C., Brian Inhibition of Chara vulgaris oospore germination by sulfidic sediments. *Aquatic Botany* **2009,** *91*, 273-278.

Seliskar, D. M.; Smart, K. E.; Higashikubo, B. T.; Gallagher, J. L., Seedling sulfide sensitivity among plant species colonizing Phragmites-infested wetlands. *Wetlands* **2004,** *24*, (2), 426-433.

Northeast Technical Services., *U. S. Steel Minntac Twin Lakes Wild Rice Restoration Opportunities Plan* U. S. Steel Minntac: Virginia, MN, 2012.

Shaff, J. E.; Schultz, B. A.; Craft, E. J.; Clark, R. T.; Kochian, L. V., GEOCHEM-EZ: a chemical speciation program with greater power and flexibility. *Plant and soil* **2010,** *330*, (1), 207-214.

Shaibur, M.; Shamim, A.; Kawai, S., Growth response of hydroponic rice seedlings at elevated concentrations of potassium chloride. *Journal of Agriculture & Rural Development* **2008,** *6*, (1), 55-61.

Shamshuddin, J.; Azura Elisa, A.; Siti Shazana, M. A. R.; Fauziah, I. C., Rice defense mechanisms against the presence of excess amount of Al3+ and Fe2+ in the water. *Australian Journal of Crop Science* **2013,** *7*, (3), 314-320.

Shea, D.; Helz, G. R., The solubility of copper in sulfidic waters: Sulfide and polysulfide complexes in equilibrium with covellite. *Geochimica et Cosmochimica Acta* **1988,** *52*, (7), 1815-1825.

Shigenori , A., A Review of Research on Redox Potentials of Paddy Soils in Japan. *Soil Science* **1961,** *94*, (1), 6-13.

Simkin, S. M. B., Barbara L.; Weathers, Kathleen C., Phytotoxic Sulfide More Important than Nutrients for Plants Within a Groundwater-Fed Wetland. *Biosystems* **2013,** *16*, 1118-1129.

Simmons, D. B. D.; Wallschläger, D., A critical review of the biogeochemistry and ecotoxicology of selenium in lotic and lentic environments. *Environmental toxicology and chemistry* **2005,** *24*, (6), 1331-1343.

Simmons, J., Toxicity of major cations and anions (Na^+, K^+, Ca^{2+}, Cl^-, and SO_4^{2-}) to a macrophyte and alga. *Environmental Toxicology and Chemistry* **2012,** *31*, (6), 1370-1374.

Simpkins, W. W., A multiscale investigation of ground water flow at Clear Lake, Iowa. *Ground water* **2005,** *44*, (1), 35-46.

Simpson, G., A study of germination in the seed of wild rice (Zizania aquatica). *Canadian Journal of Botany* **1966,** *44*, (1), 1-9.

Simpson, S. L.; Apte, S. C.; Batley, G. E., Effect of short-term resuspension events on trace metal speciation in polluted anoxic sediments. *Environmental Science & Technology* **1998,** *32*, (5), 620-625.

Sims, L. P., John; Lee, Tali; Dewey, Brad Nitrogen, phosphorus, and light effects on reproduction and fitness of wild rice. *Botany* **2012,** *90*, 876–883.

Sims, L. T. Light, nitrogen and phosphorus effects on growth, allocation of biomass and nutrients, reproduction and fitness in wild rice (Zizania palustris L.). University of Minnesota, 2011.

Sims, L.; Pastor, J.; Lee, T.; Dewey, B., Nitrogen, phosphorus and light effects on growth and allocation of biomass and nutrients in wild rice. *Oecologia* **2012**, 1-12.

Sinke, A. J. C.; Cornelese, A. A.; Cappenberg, T. E.; Zehnder, A. J. B., Seasonal variation in sulfate reduction and methanogenesis in peaty sediments of eutrophic Lake Loosdrecht, The Netherlands. *Biogeochemistry* **1992,** *16*, (1), 43-61.

Smith, C. L.; Vogel, H. J., Wild Rice Mystique: Resource Management and American Indians' Rights as a Problem of Law and Culture, The. *Wm. Mitchell L. Rev.* **1984,** *10*, 743.

Smith, D. S.; Bell, R. A.; Kramer, J. R., Metal speciation in natural waters with emphasis on reduced sulfur groups as strong metal binding sites. *Comparative biochemistry and physiology. Part C, Toxicology & pharmacology* **2002,** *133*, (1-2), 65-74.

Smith, G.; Johnston, C.; Cornforth, I., Comparison of nutrient solutions for growth of plants in sand culture. *New phytologist* **1983,** *94*, (4), 537-548.

Smith, L. L. J. O., Donavon M.; Adelman, Ira R.; Broderius, Steven J., Effect of Hydrogen Sulfide on Fish and Invertebrates: Part I - Acute and Chronic Toxicity Studies. In Agency, U. S. E. P., Ed. Office of Research and Development: U.S. EPA: Duluth, Minnesota, 1976.

Smith, L. L. J.; Olson, L. E., Acute and Chronic Toxicity of Hydrogen Sulfide to the Fathead Minnow, Pimephales promelas. *Environ. Sci. Technol.* **1976,** *10*.

Smith, L. L. J.; Oseid, D. M. In *Toxic Effects of Hydrogen Sulfide to Juvenile Fish and Fish Eggs*, Proceedings of the 25th Industrial Waste Conference, Purdue University, Lafayette Indiana 1970; Purdue University, Lafayette Indiana 1970.

Smith, L. L. J.; Oseid, D. M., Chronic Effects of Low Levels of Hydrogen Sulfide on Freshwater Fish. *Prog. Water Technol* **1975,** *7*, (3), 599-605.

Smith, L. L. J.; Oseid, D. M., Effect of Hydrogen Sulfide on Development and Survival of Eight Freshwater Fish Species. In *The Early life history of fish : the proceedings of an international symposium held at the Dunstaffnage Marine Research Laboratory of the Scottish Marine Biological Association at Oban, Scotland, from May 17-23, 1973*, Blaxter, J. H. S. S. M. B. A., Ed. Springer-Verlag Oban, Scotland, 1974.

Smith, L. L. J.; Oseid, D. M., Effects of Hydrogen Sulfide on Fish Eggs and Fry. *Water Res.* **1972,** *6*.

Smith, L. L. J.; Oseid, D. M.; Kimball, G. L.; El-Kandelgy, S. M., Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus). *Trans. Am. Fish. Soc* **1976,** *105*.

Smith, R. V. F., R.H. , Improved hydrogen ion buffering of media for the culture of freshwater algae *British Phycological Journal* **1974,** *9*, 239-245.

Smolders, A. J. P.; Lucassen, E. C.; Bobbink, R.; Roelofs, J. G. M.; Lamers, L. P. M., How nitrate leaching from agricultural lands provokes phosphate eutrophication in groundwater fed wetlands: the sulphur bridge. *Biogeochemistry* **2010,** *98*, (1), 1-7.

Smolders, A. J. P.; Nijboer, R. C.; Roelofs, J. G. M., Prevention of sulphide accumulation and phosphate mobilization by the addition of iron(II) chloride to a reduced sediment: an enclosure experiment. *Freshwater Biology* **1995,** *34*, (3), 559-567.

Smolders, A.; Lamers, L.; Hartog, C.; Roelofs, J., Mechanisms involved in the decline of Stratiotes aloides L. in the Netherlands: sulphate as a key variable. *Hydrobiologia* **2003,** *506*, (1), 603-610.

Smolders, A.; Lamers, L.; Lucassen, E.; Van der Velde, G.; Roelofs, J., Internal eutrophication: how it works and what to do about it—a review. *Chemistry and Ecology* **2006,** *22*, (2), 93-111.

Smolders, A.; Lamers, L.; Moonen, M.; Zwaga, K.; Roelofs, J., Controlling phosphate release from phosphate-enriched sediments by adding various iron compounds. *Biogeochemistry* **2001,** *54*, (2), 219-228.

Smolders, A.; Moonen, M.; Zwaga, K.; Lucassen, E.; Lamers, L.; Roelofs, J., Changes in pore water chemistry of desiccating freshwater sediments with different sulphur contents. *Geoderma* **2006,** *132*, (3), 372-383.

Smolders, A.; Roelofs, J., Sulphate-mediated iron limitation and eutrophication in aquatic ecosystems. *Aquatic Botany* **1993,** *46*, (3), 247-253.

Sochaczewski, Ł.; Stockdale, A.; Davison, W.; Tych, W.; Zhang, H., A three-dimensional reactive transport model for sediments, incorporating microniches. *Environmental Chemistry* **2008,** *5*, (3), 218-225.

Sorrell, B.; Mendelssohn, I.; McKee, K.; Woods, R., Ecophysiology of wetland plant roots: a modelling comparison of aeration in relation to species distribution. *Annals of Botany* **2000,** *86*, (3), 675-685.

Soucek, D. J., Bioenergetic Effects of Sodium Sulfate on the Freshwater Crustacean, Ceriodaphnia dubia. *Ecotoxicology* **2007,** *16*, (3), 317-325.

Soucek, D. J., Comparison of Hardness and Chloride-Regulated Acute Effects of Sodium Sulfate on Two Freshwater Crustaceans. *Environ. Toxicol. Chem.* **2007,** *26*, (4), 773-779.

Soucek, D. J., Sodium Sulfate Impacts Feeding, Specific Dynamic Action, and Growth Rate in the Freshwater Bivalve Corbicula fluminea. *Aquat. Toxicol.* **2007,** *83*, (4), 315-322.

Soucek, D. J.; Kennedy, A. J., Effects of Hardness, Chloride, and Acclimation on the Acute Toxicity of Sulfate to Freshwater Invertebrates. *Environ. Toxicol. Chem.* **2005,** *24*, (5), 1204-1210.

Soucek, D. J.; Linton, T. K.; Tarr, C. D.; Dickinson, A.; Wickramanayake, N.; Delos, C. G.; Cruz, L. A., Influence of water hardness and sulfate on the acute toxicity of chloride to sensitive freshwater invertebrates. *Environmental Toxicology & Chemistry* **2011,** *30*, (4), 930-938.

Stallman, R., Steady one-dimensional fluid flow in a semi-infinite porous medium with sinusoidal surface temperature. *Journal of Geophysical Research* **1965,** *70*, (12), 2821-2827.

University of Minnesota Agricultural Research Station. *Minnesota Wild Rice Research 1986*; 1986.

University of Minnesota Agricultural Research Station. *Minnesota Wild Rice Research 1987*; 1987.

University of Minnesota Agricultural Research Station. *Minnesota Wild Rice Research 1988*; 1988.

University of Minnesota Agricultural Research Station. *Minnesota Wild Rice Research 1989*; 1989.

University of Minnesota Agricultural Research Station. *Minnesota Wild Rice Research 1990*; 1990.

University of Minnesota Agricultural Research Station. *Minnesota Wild Rice Research 1994*; 1994.

University of Minnesota Agricultural Research Station. *Minnesota Wild Rice Research 1995*; 1995.

Stauffer, R. E.; Armstrong, D. E., Cycling of iron, manganese, silica, phosphorus, calcium and potassium in two stratified basins of Shagawa Lake, Minnesota. *Geochimica et Cosmochimica Acta* **1986,** *50*, (2), 215-229.

Steeves, T. A., Wild rice—Indian food and a modern delicacy. *Economic Botany* **1952,** *6*, (2), 107-142.

Stephen, C. E.; Mount, D. I.; Hansen, D. J.; Gantile, J.; Chapman, G.; Brungs, W., Guidelines for deriving numerical National water quality criteria for the protection of aquatic organisms and their uses. *US EPA, Office of Water Regulations and Standards Criteria, Washington DC PB85-227049* **1985**.

Sterner, R. W., On the phosphorus limitation paradigm for lakes. *International Review of Hydrobiology* **2008,** *93*, (4-5), 433-445.

Stevenson, S.; Lee, P., Ecological relationships of wild rice, Zizania aquatica. 6. The effects of increases in water depth on vegetative and reproductive production. *Canadian journal of botany* **1987,** *65*, (10), 2128-2132.

Stiles, K.; Altıok, Ö.; Bell, M. M., The Ghosts of Taste: food and the cultural politics of authenticity.*Agriculture and Human Values* **2011,** *28*, (2), 225-236.

Stockdale, A.; Davison, W.; Zhang, H., High-resolution two-dimensional quantitative analysis of phosphorus, vanadium and arsenic, and qualitative analysis of sulfide, in a freshwater sediment. *Environmental Chemistry* **2008,** *5*, (2), 143-149.

Stockdale, A.; Davison, W.; Zhang, H., Micro-scale biogeochemical heterogeneity in sediments: A review of available technology and observed evidence. *Earth-Science Reviews* **2009,** *92*, (1), 81-97.

Stonestrom, D. A.; Constantz, J., *Heat as a tool for studying the movement of ground water near streams.* US Dept. of the Interior, US Geological Survey: 2003.

Stover, E. L., The Roots of Wild Rice Zizania Aquatica L. *Ohio Journal of Science* **1928,** *28*, (1), 43-49.

Straub, J. N. Energetic carrying capacity of habitats used by spring-migrating waterfowl in the Upper Mississippi River and Great Lakes Region. The Ohio State University, 2008.

Straub, J. N.; Gates, R. J.; Schultheis, R. D.; Yerkes, T.; Coluccy, J. M.; Stafford, J. D., Wetland food resources for spring-migrating ducks in the upper mississippi river and Great Lakes Region. *The Journal of Wildlife Management* **2012**.

Stribling, J. M., The Relative Importance of Sulfate Availability in the Growth of Spartina alterniflora and Spartina cynosuroides. *Aquat. Bot.* **1997,** *56*, (2), 131-143.

Strickland, J. C., Audrey; Spinnato III, Joseph A.; Liccione, John J.; Foureman, Gary L., Toxicological Review of Hydrogen Suflide: In support of Summary Information on the Integrated Risk Information System (IRIS). In Agency, U. S. E. P., Ed. U.S. Environmental Protection Agency: Washington, DC, 2003.

Suffling, R.; Shreiner, C. A Bibliography of Wild Rice (*Zizania* species) including biological, anthropological, and socio-economic aspects.

Sugden, L. G., Grain consumption by mallards. *Wildlife Society Bulletin* **1979**, 35-39.

Sugden, L. G., Metabolizable energy of small grains for mallards. *The Journal of Wildlife Management* **1971**, 781-785.

Sun, G. X.; Liu, X.; Williams, P. N.; Zhu, Y. G., Distribution and translocation of selenium from soil to grain and its speciation in paddy rice (Oryza sativa L.). *Environmental science & technology* **2010,** *44*, (17), 6706-6711.

Suplee, M. W.; Cotner, J. B., An evaluation of the importance of sulfate reduction and temperature to P fluxes from aerobic-surfaced, lacustrine sediments. *Biogeochemistry* **2002,** *61*, (2), 199-228.

Surridge, B. W. J.; Heathwaite, A. L.; Baird, A. J., The release of phosphorus to porewater and surface water from river riparian sediments. *Journal of Environmental Quality* **2007,** *36*, (5), 1534-1544.

Illinois Natural History Survey., *Effects of Water Quality on Acute and Chronic Toxicity of Sulfate to Freshwater Bivalves, Ceriodaphnia dubia, and Hyalella azteca*; 2005.

Minnesota Geological Survey., Minnesota Geochemical Atlas. In University of Minnesota, 2009.

Suter II, G. W., Abuse of hypothesis testing statistics in ecological risk assessment. *Human and Ecological Risk Assessment* **1996,** *2*, (2), 331-347.

Suter II, G. W.; Norton, S. B.; Cormier, S. M., The science and philosophy of a method for assessing environmental causes. *Human and Ecological Risk Assessment* **2010,** *16*, (1), 19-34.

Suter, G. W.; Cormier, S. M., Why and how to combine evidence in environmental assessments: weighing evidence and building cases. *Science of the Total Environment* **2011,** *409*, (8), 1406-1417.

Svare, C. W., The Effects of Various Oxygen Levels on Germination and Early Development of Wild Rice. In 3 ed.; Fish, M. D. o. C. D. o. G. a., Ed. Saint Paul, Minnesota, 1960.

Swain, E.; Wang, H.; Hesseltine, C., Note on vitamins and minerals of wild rice. *Cereal Chemistry* **1978,** *55*, (3), 412-414.

Swarzenski, C. M.; Doyle, T. W.; Fry, B.; Hargis, T. G., Biogeochemical response of organic-rich freshwater marshes in the Louisiana delta plain to chronic river water influx. *Biogeochemistry* **2008,** *90*, (1), 49-63.

Szynkiewicz, A.; Jędrysek, M. O.; Kurasiewicz, M.; Mastalerz, M., Influence of sulfate input on freshwater sediments: Insights from incubation experiments. *Applied Geochemistry* **2008,** *23*, (6), 1607-1622.

Tanaka, A.; Mulleriyawa, R. P.; Yasu, T., Possibility of hydrogen sulfide induced iron toxicity of the rice plant. *Soil Science and Plant Nutrition* **1968,** *14*, (1), 1-6.

Tanji, K.; Gao, S.; Scardaci, S.; Chow, A., Characterizing redox status of paddy soils with incorporated rice straw. *Geoderma* **2003,** *114*, (3), 333-353.

Taube, E., Wild rice. *The Scientific Monthly* **1951,** *73*, 369-375.

TenBrook, P. L.; Palumbo, A. J.; Fojut, T. L.; Hann, P.; Karkoski, J.; Tjeerdema, R. S., The University of California-Davis Methodology for deriving aquatic life pesticide water quality criteria. *Reviews of Environmental Contamination and Toxicology Volume 209* **2010**, 1-155.

TenBrook, P. L.; Tjeerdema, R. S.; Hann, P.; Karkoski, J., Methods for deriving pesticide aquatic life criteria. *Reviews of Environmental Contamination and Toxicology Volume 199* **2009**, 1-92.

Teng, Y.; Timmer, V. R., Phosphorus-induced micronutrient disorders in hybrid poplar. *Plant and Soil* **1990,** *126*, (1), 19-29.

Terrell, E. E. P., Paul M.; Reveal, James L.; Duvall, Melvin R. , Taxonomy Of North American Species Of Zizania (Poaceae) *SIDA* **1997,** *17*, (3), 533-549.

Terrell, E. E.; Wergin, W. P., Epidermal features and silica deposition in lemmas and awns of Zizania (Gramineae). *American Journal of Botany* **1981**, 697-707.

Teske, A., Cryptic links in the ocean. *science* **2010,** *330*, (6009), 1326-1327.

Teuchies, J.; De Jonge, M.; Meire, P.; Blust, R.; Bervoets, L., Can Acid Volatile Sulfides (AVS) influence metal concentrations in the macrophyte Myriophyllum aquaticum? *Environmental Science & Technology* **2012**.

Thelin, G.; Rosengren-Brinck, U.; Nihlgård, B., Can graphical vector analysis be used to identify micro nutrient deficiency? *Water, Air, and Soil Pollution* **1999,** *116*, (1), 383-388.

Thomas, A.; Stewart, J., The effect of different water depths on the growth of wild rice. *Canadian Journal of Botany* **1969,** *47*, (10), 1525-1531.

Thullner, M. R., Pierre; Van Cappellen, Philippe Modeling Microbially Induced Carbon Degradation in Redox-Stratified Subsurface Environments: Concepts and Open Questions. *Geomicrobiology Journal* **2007,** *27*, 139-155.

Thursby, G. B.; Latimer, R. *Final Report For Cooperative Agreement# Cr8lo774-01-0 Development Of Toxicity Test Procedures For The Marine Red Alga Champia Parvula*; University of Rhode Island: U.S. Environmental Protection Agency, 1984; p 248.

Timmer, V.; Stone, E., Comparative foliar analysis of young balsam fir fertilized with nitrogen, phosphorus, potassium, and lime. *Soil Science Society of America Journal* **1978,** *42*, (1), 125-130.

Tippkötter, H. S. T. E. R., Monitoring of root growth and redox conditions in paddy soil rhizotrons by redox electrodes and image analysis. *Plant Soil* **2011,** *341*, 221-232.

Toran, L.; Johnson, M.; Nyquist, J.; Rosenberry, D., Delineating a road-salt plume in lakebed sediments using electrical resistivity, piezometers, and seepage meters at Mirror Lake, New Hampshire, USA. *Geophysics* **2010,** *75*, (4), WA75-WA83.

Trama, F. B., The Acute Toxicity of Some Common Salts of Sodium, Potassium and Calcium to the Common Bluegill. *Proc. Acad. Nat. Sci.* **1954,** *106*, 185-205.

Trelease, S. F.; Trelease, H. M., Physiologically Balanced Culture Solutions With Stable Hydrogen-Ion Concentration. *Science* **1933,** *78*, (2028), 438.

Tribe, M. C. *An analysis of the watershed impact on the ecology of lower rice lake, 1983*; Minnesota Chippewa Tribe Research Laboratory: 1983.

Trostle, C. L.; Bloom, P.; Allan, D., HEDTA–nitrilotriacetic acid chelator-buffered nutrient solution for zinc deficiency evaluation in rice. *Soil Science Society of America Journal* **2001,** *65*, (2), 385-390.

Tsuji, S.; Tonogai, Y.; Ito, Y.; Kanoh, S., The Influence of Rearing Temperatures on the Toxicity of Various Environmental Pollutants for Killifish (Oryzias latipes). *Eisei Kagaku* **1986,** *32*, (1), 46-53.

Tsutsumi, M., Intensification of arsenic toxicity to paddy rice by hydrogen sulfide and ferrous iron. *Soil science and plant nutrition* **1980,** *26*, (4), 561-569.

Tucker, R. C.; Zanis, M. J.; Emery, N. C.; Gibson, K. D. In *COS 35-6: Effects of water depth and seed provenance on the vegetative growth of southern wild rice (Zizania aquatica)*, The 95th ESA Annual Meeting, 2010; 2010.

Tucker, R. C.; Zanis, M. J.; Emery, N. C.; Gibson, K. D., Effects of water depth and seed provenance on the growth of wild rice (< i> Zizania aquatica</i> L.). *Aquatic Botany* **2011,** *94*, (3), 113-118.

Tucker, R. C.; Zanis, M. J.; Emery, N. C.; Gibson, K. D., Effects of water depth and seed provenance on the vegetative growth of southern wild rice (Zizania aquatica). In *95th ESA Annual Meeting*, Pittsburg PA, 2012.

Tyser, R. W.; Rogers, S. J.; Owens, T. W.; Robinson, L. R, Changes in backwater plant communities from 1975 to 1995 in Navigation Pool 8, Upper Mississippi River. *Regulated Rivers: Research & Management* **2001,** *17*, (2), 117-129.

Urban, N. R.; Dinkel, C.; Wehrli, B., Solute transfer across the sediment surface of a eutrophic lake: I. Porewater profiles from dialysis samplers. *Aquatic Sciences-Research Across Boundaries* **1997,** *59*, (1), 1-25.

Urban, N.; Brezonik, P.; Baker, L.; Sherman, L., Sulfate reduction and diffusion in sediments of Little Rock Lake, Wisconsin. *Limnology and Oceanography* **1994**, 797-815.

Urban, N.; Ernst, K.; Bernasconi, S., Addition of sulfur to organic matter during early diagenesis of lake sediments. *Geochimica et cosmochimica acta* **1999,** *63*, (6), 837-853.

Urban, N.; Sampson, C.; Brezonik, P.; Baker, L., Sulfur cycling in the water column of Little Rock Lake, Wisconsin. *Biogeochemistry* **2001,** *52*, (1), 41-77.

USEPA., Early Seedling Growth Toxicity Test. In Agency, U. S. E. P., Ed. Office of Chemical Safety and Pollution Prevention: 2012.

USEPA., Ecotoxicity Database. In US Environmental Pollution Control Agency: 1991.

USEPA., Fate, Transport and Transformation Test Guidelines OPPTS 835.3180 Sediment/Water Microcosm Biodegradation Test. In US EPA Office of Prevention, P. a. T. S., Ed. Washington, DC, 1998.

USEPA., Fate, Transport and Transformation Test Guidelines: OPPTS 835.5154 Anaerobic Biodegradation in the Subsurface. In US EPA Office of Prevention, P. a. T. S., Ed. Washington, DC, 1998.

USEPA., Gold Book - Sulfide. In 1986.

USEPA., SESD Operating Procedure -Field Measurement of Oxidatation-Reduction Potential. In 4, U. S. E. P. A. R., Ed. Science and Ecosystem Support Division: Athens, Georgia, 2013.

USEPA., Stressor identification guidance document. In USEPA, Office of Water Washington DC: 2000.

USEPA., Technical support document for water quality-based toxics control. In Environmental Protection Agency, Washington, DC (USA). Office of Water Enforcement and Permits: 1991.

USEPA., Workshop on Monitoring Oxidation-Reduction Processes for Ground-water Restoration Workshop Summary. In Agency, E. P., Ed. National Risk Management Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency: Cincinnati, OH, 2002.

Van Cappellen, P. W., Yifeng Cycling Of Iron And Manganese In Surface Sediments: A General Theory For The Coupled Transport And Reaction Of Carbon, Oxygen, Nitrogen, Sulfur, Iron, And Manganese *American Journal of Science* **1996,** *296*, 197-243.

Van Dam, R. A.; Hogan, A. C.; McCullough, C. D.; Houston, M. A.; Humphrey,C. L.; Harford, A. J., Aquatic toxicity of magnesium sulfate, and the influence of calcium, in very low ionic concentration water. *Environmental Toxicology and Chemistry* **2010,** *29*, (2), 410-421.

Van Der Welle, M. E. W.; Cuppens, M.; Lamers, L. P. M.; Roelofs, J. G. M., Detoxifying Toxicants: Interactions Between Sulfide And Iron Toxicity In Freshwater Wetlands. *Environmental Toxicology and Chemistry* **2006,** *25*, (6), 1592-1597.

Van der Welle, M. E. W.; Niggebrugge, K.; Lamers, L. P. M.; Roelofs, J. G. M., Differential responses of the freshwater wetland species Juncus effusus L. and Caltha palustris L. to iron supply in sulfidic environments. *Environmental Pollution* **2007,** *147*, (1), 222-230.

Van Der Welle, M. E. W.; Roelofs, J. G. M.; Lamers, L. P. M., Multi-level effects of sulphur–iron interactions in freshwater wetlands in The Netherlands. *Science of the Total Environment* **2008,** *406*, (3), 426-429.

Van Der Welle, M. E. W.; Smolders, A. J. P.; Op Den Camp, H. J. M.; Roelofs, J. A. N. G. M.; L.P.M., L., Biogeochemical interactions between iron and sulphate in freshwater wetlands and their implications for interspecific competition between aquatic macrophytes. *Freshwater Biology* **2007,** *52*, (3), 434-447.

Van Horn, W. M.; Anderson, J. B.; Katz, M., The Effect of Kraft Pulp Mill Wastes on Some Aquatic Organisms. *Trans. Am. Fish. Soc* **1949,** *79.*

Van Leeuwen, C. J.; Maas-Diepeveen, J. L.; Niebeek, G.; Vergouw, W. H. A.; Griffioen, P. S.; Luijken, M. W., Aquatic Toxicological Aspects of Dithiocarbamates and Related Compounds. I. Short-Term Toxicity Tests. *Aquatic Toxicology* **1985,** *7.*

Vanotti, M.; Leclerc, S.; Bundy, L., Short-Term Effects of Nitrogen Fertilization on Soil Organic Nitrogen Availability. *Soil Science Society of America Journal* **1995,** *59*, 1350-1359.

Vennum Jr., T., *Wild rice and the Ojibway people.* Minnesota Historical Society Press: St.Paul, Minnesota, 1988; p 358.

Verhoeven, J. T. A.; Setter, T. L., Agricultural use of wetlands: opportunities and limitations.*Annals of Botany* **2010,** *105*, (1), 155-163.

Vervliet-Scheebaum, M.; Knauer, K.; Maund, S. J.; Grade, R., Evaluating the necessity of additional aquatic plant testing by comparing the sensitivities of different species. *Macrophytes in Aquatic Ecosystems: From Biology to Management* **2006**, 231-236.

Vile, M.; Novák, M., Sulfur Cycling in Boreal Peatlands: from Acid Rain to Global Climate Change. *Boreal Peatland Ecosystems* **2006**, 259-287.

Villamar, C.; Cañuta, T.; Belmonte, M.; Vidal, G., Characterization of Swine Wastewater by Toxicity Identification Evaluation Methodology (TIE). *Water, Air and Soil Pollution* **2012,** *223*, (1), 363-369.

Villeneuve, D. L.; Garcia-Reyero, N., Vision & strategy: Predictive ecotoxicology in the 21st century.*Environmental Toxicology and Chemistry* **2011,** *30*, (1), 1-8.

Vogt, D. J. *Sandy Lake and Little Sandy Lake Monitoring (2010-2011)*; Technical Report 11-07; 1854 Treaty Authority: 2011.

Vogt, D. J., Wild Rice Monitoring and Abundance in the 1854 Ceded Territory (1998-2011). In Authority, T., Ed. 2012.

Walker, E. L.; Connolly, E. L., Time to pump iron: iron-deficiency-signaling mechanisms of higher plants. *Current opinion in plant biology* **2008,** *11*, (5), 530-535.

Walker, R. D. W. R. D.; Pastor, J. P. J.; Dewey, B. W. D. B. W., Effects of wild rice (Zizania palustris) straw on biomass and seed production in northern Minnesota. *Botany* **2006,** *84*, (6), 1019-1024.

Walker, R. D., Daniel; Pollak, Melisa; Weiss, Jeff *Influence of Geomorphology on Wild Rice Occurrence in the Upper St. Louis River*; Barr Engineering Co. : Minneapolis, MN, 2013.

Walker, R. D.; Doerfler, J., Wild Rice: The Minnesota Legislature, a Distinctive Crop, GMOs, and Ojibwe Perspectives. *Hamline Law Review* **2009,** *32*, 499-502.

Walker, R. E. D. Wild Rice: The Dynamics Of Its Population Cycles And The Debate Over Its Control At The Minnesota Legislature. University of Minnesota, 2008.

Walker, R. E. D.; Pastor, J.; Dewey, B. W., Litter quantity and nitrogen immobilization cause oscillations in productivity of wild rice (Zizania palustris L.) in Northern Minnesota. *Ecosystems* **2010,** *13*, (4), 485-498.

Wallen, I. E.; Greer, W. C.; Lasater, R., Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters. *Sewage and Industrial Wastes* **1957,** *29*, (6), 695-711.

Wang, F.; Chapman, P. M., Biological implications of sulfide in sediment—a review focusing on sediment toxicity. *Environmental Toxicology and Chemistry* **2009,** *18*, (11), 2526-2532.

Wang, F.; Tessier, A., Zero-valent sulfur and metal speciation in sediment porewaters of freshwater lakes. *Environmental Science and Technology* **2009,** *43*, (19), 7252-7257.

Wang, H.; Swain, E.; Hesseltine, C.; Gumbmann, M., Protein quality of wild rice. *Journal of Agricultural and Food Chemistry* **1978,** *26*, (2), 309-312.

Wang, H.; Waldon, M. G.; Meselhe, E. A.; Arceneaux, J. C.; Chen, C.; Harwell, M. C., Surface watersulfate dynamics in the Northern Florida Everglades. *Journal of Environmental Quality* **2009,** *38*, (2), 734-741.

Wang, W., Fractionation Of Sediment Oxygen Demand. *Water Research* **1980,** *14*, 603-612.

Wang, W.; Freemark, K., The use of plants for environmental monitoring and assessment. *Ecotoxicology and Environmental Safety* **1995,** *30*, (3), 289-301.

Wareham, D. G. H., Kenneth J.; Mavinic, Donald S. , Real-Time Control Of Aerobic-Anoxic Sludge Digestion Using Orp *Journal of Environmental Engineering* **1993,** *119*, 120-136.

Warne, M. S. J.; Schifko, A. D., Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. *Ecotoxicology and Environmental Safety* **1999,** *44*, (2), 196-206.

Warne, M. S. J.; Van Dam, R., NOEC and LOEC data should no longer be generated or used. *Australasian Journal of Ecotoxicology* **2008,** *14*, 1-5.

Warwick, S. I.; Aiken, S. G., Electrophoretic Evidence for the Recognition of Two Species in Annual Wild Rice (Zizania, Poaceae). *Systematic Botany* **1986,** *11*, (3), 464-473.

Watkin, E. L. J.; Thomson, C. J.; Greenway, H., Root development and aerenchyma formation in two wheat cultivars and one triticale cultivar grown in stagnant agar and aerated nutrient solution. *Annals of Botany* **1998,** *81*, (2), 349-354.

Weber, F. A.; Hofacker, A. F.; Voegelin, A.; Kretzschmar, R., Temperature dependence and coupling of iron and arsenic reduction and release during flooding of a contaminated soil. *Environmental science & technology* **2009,** *44*, (1), 116-122.

Weber, R.; Simpson, G., Influence of water on wild rice (Zizania aquatica L.) grown in a prairie soil. *Canadian Journal of Plant Science* **1967,** *47*, (6), 657-663.

Weinberger, P.; Yee, D., The influence of nitrogen sources on root-mediated changes in substrate pH. *Canadian journal of botany* **1984,** *62*, (1), 161-162.

Weiner, J.; Whigham, D. F., Size variability and self-thinning in wild-rice (Zizania aquatica). *American journal of botany* **1988**, 445-448.

Weir, C. E.; Dale, H. M., A Developmental Study Of Wild Rice, Zizania Aquatica L. *Canadian Journal of Botany* **1960,** *38*, (5), 719-741.

Weiss, J. V.; Emerson, D.; Backer, S. M.; Megonigal, J. P., Enumeration of Fe (II)-oxidizing and Fe (III)-reducing bacteria in the root zone of wetland plants: implications for a rhizosphere iron cycle. *Biogeochemistry* **2003,** *64*, (1), 77-96.

Wen, J., Evolution of eastern Asian and eastern North American disjunct distributions in flowering plants. *Annual Review of Ecology and Systematics* **1999**, 421-455.

Wen, J.; Shi, S.; Jansen, R.; Zimmer, E., Phylogeny and biogeography of Aralia sect. Aralia (Araliaceae). *American Journal of Botany* **1998,** *85*, (6), 866-866.

Weston Solutions, I. M. R. S. *Site-Specific Sulfide Criterion for Produced-Water Discharges at Five California OCS Platforms*; Technical Report 427-272; Plains Exploration and Production Company/Arguello Inc.; Dos Cuadras Offshore Resources, LLC.: Port Gamble, WA, 2006.

Weston, N. B.; Porubsky, W. P.; Samarkin, V. A.; Erickson, M.; Macavoy, S. E.; Joye, S. B., Porewater stoichiometry of terminal metabolic products, sulfate, and dissolved organic carbon and nitrogen in estuarine intertidal creek-bank sediments. *Biogeochemistry* **2006,** *77*, (3), 375-408.

Wheeler, R. M.; Morrow, R. C., Physiological Disorders in Closed, Controlled Environment Crops. In *38th COSPAR Scientific Assembly*, Bremen, Germany, 2010.

White, S. N.; Alber, M., Drought-associated shifts in Spartina alterniflora and S. cynosuroides in the Altamaha River estuary. *Wetlands* **2009,** *29*, (1), 215-224.

Whitmire, S. L.; Hamilton, S. K., Rapid removal of nitrate and sulfate in freshwater wetland sediments. *Journal of Environmental Quality* **2005,** *34*, (6), 2062-2071.

Widerlund, A.; Davison, W., Size and density distribution of sulfide-producing microniches in lake sediments. *Environmental science & technology* **2007,** *41*, (23), 8044-8049.

Wiengweera, A.; Greenway, H.; Thomson, C. J., The use of agar nutrient solution to simulate lack of convection in waterlogged soils. *Annals of Botany* **1997,** *80*, (2), 115-123.

Wiessner, A.; Kuschk, P.; Jechorek, M.; Seidel, H.; Kastner, M., Sulphur transformation and deposition in the rhizosphere of Juncus effusus in a laboratory-scale constructed wetland. *Environmental Pollution* **2007,** *155*, 125-131.

Wigand, C.; Thursby, G. B.; McKinney, R. A.; Santos, A. F., Response of Spartina patens to dissolved inorganic nutrient additions in the field. *Journal of coastal research* **2004**, 134-149.

Wilcox, D. A. M., James E. , Disturbance effects on aquatic vegetation in regulated and unregulated lakes in northern Minnesota. *Canadian Journal of Botany* **1991,** *69*, 1542-1551.

Williams, P. N. V., A.; Deacon, C.; Raab, A.; Figuerola, J..; Green, A. J.; Feldmann, J.; Meharg, A. A., Greatly Enhanced Arsenic Shoot Assimilation in Rice Leads to Elevated Grain Levels Compared to Wheat and Barley. *Environmental Science and Technology* **2010,** *41*, (19), 2007.

Willson, M. F.; Ruppel, K. P., Resource allocation and floral sex ratios in Zizania aquatica. *Canadian journal of botany* **1984,** *62*, (4), 799-805.

Wind, T.; Conrad, R., Localization of sulfate reduction in planted and unplanted rice field soil. *Biogeochemistry* **1997,** *37*, (3), 253-278.

Wind, T.; Stubner, S.; Conrad, R., Sulfate-reducing bacteria in rice field soil and on rice roots. *Systematic and applied microbiology* **1999,** *22*, (2), 269-279.

Winger, P.; Lasier, P.; Jackson, B., The influence of extraction procedure on ion concentrations in sediment pore water. *Archives of environmental contamination and toxicology* **1998,** *35*, (1), 8-13.

Winter, T.; LaBaugh, J.; Rosenberry, D., The design and use of a hydraulic potentiomanometer for direct measurement of differences in hydraulic head between groundwater and surface water. *Limnology and Oceanography* **1988**, 1209-1214.

Woods, D.; Gutek, L., Germinating wild rice. *Canadian Journal of Plant Science* **1974,** *54*, (2), 423-424.

Wu, S.; Chen, Z.; Braeckevelt, M.; Seeger, E. M.; Dong, R.; Kästner, M.; Paschke, H.; Hahn, A.; Kayser, G.; Kuschk, P., Dynamics of Fe (II), sulphur and phosphate in pilot-scale constructed wetlands treating a sulphate-rich chlorinated hydrocarbon contaminated groundwater. *Water research* **2012,** *46*, (6), 1923-1932.

Wu, S.; Jeschke, C.; Dong, R.; Paschke, H.; Kuschk, P.; Knöller, K., Sulfur transformations in pilot-scale constructed wetland treating high sulfate-containing contaminated groundwater: A stable isotope assessment. *Water research* **2011**.

Wu, S.; Kuschk, P.; Wiessner, A.; Müller, J.; Saad, R. A. B.; Dong, R., Sulphur transformations in constructed wetlands for wastewater treatment: A review. *Ecological Engineering* **2012**.

Xu, D.; Xu, J.; He, Y.; Huang, P., Effect of iron plaque formation on phosphorus accumulation and availability in the rhizosphere of wetland plants. *Water, Air, and Soil Pollution* **2009,** *200*, (1), 79-87.

Xu, S.; Jaffé, P. R.; Mauzerall, D. L., A process-based model for methane emission from flooded rice paddy systems. *Ecological Modelling* **2007,** *205*, (3), 475-491.

Xu, X.; Walters, C.; Antolin, M. F.; Alexander, M. L.; Lutz, S.; Ge, S.; Wen, J., Phylogeny and biogeography of the eastern Asian–North American disjunct wild-rice genus (< i> Zizania</i> L., Poaceae). *Molecular Phylogenetics and Evolution* **2010,** *55*, (3), 1008-1017.

Xuemei, Z.; Zhian, Z.; Fu, Y.; Xiaohui, W., Studies on leaf photosynthetic temperature characteristics of wild rice. *Journal of Jilin Agricultural University* **2004**, (5), 488-490.

Yang, Y.; Wang, Y.; Lin, L.; Sha, Q.; Song, G., Determination of Discharge Standards for the Influent to the Stabilization Pond: A Comparison Between Single and Multiple-Toxicant Experiments. *Shuisheng Shengwu Xuebao* **1994,** *18*.

Yano, M.; Kojima, S.; Takahashi, Y.; Lin, H.; Sasaki, T., Genetic control of flowering time in rice, a short-day plant. *Plant physiology* **2001,** *127*, (4), 1425-1429.

Yarmolinsky, D.; Brychkova, G.; Fluhr, R.; Sagi, M., Sulfite Reductase Protects Plants against Sulfite Toxicity. *Plant Physiology* **2013,** *161*, (2), 725-743.

Ying, S.; Ling-Ling, W.; Hong-Wen, G.; Feng, W., Effect of Soluble Sulfide on the Activity of Luminescent Bacteria. *Molecules* **2012,** *17*, (5), 6046-6055.

Yost, C. L.; Blinnikov, M. S., Locally diagnostic phytoliths of wild rice (Zizania palustris L.) from Minnesota, USA: comparison to other wetland grasses and usefulness for archaeobotany and paleoecological reconstructions. *Journal of Archaeological Science* **2011,** *38*, (8), 1977-1991.

Yost, C.; Blinnikov, M.; Julius, M., Detecting ancient wild rice (Zizania spp. L.) using phytoliths: a taphonomic study of modern wild rice in Minnesota (USA) lake sediments. *Journal of Paleolimnology* **2012**.

Yu, X.; Bell, P. F., Nutrient deficiency symptoms and boron uptake mechanisms of rice. *Journal of plant nutrition* **1998,** *21*, (10), 2077-2088.

Yuan, L. L., Estimating the effects of excess nutrients on stream invertebrates from observational data. *Ecological Applications* **2010,** *20*, (1), 110-125.

Zak, D.; Kleeberg, A.; Hupfer, M., Sulphate-mediated phosphorus mobilization in riverine sediments at increasing sulphate concentration, River Spree, NE Germany. *Biogeochemistry* **2006,** *80*, (2), 109-119.

Zak, D.; Rossoll, T.; Exner, H. J.; Wagner, C.; Gelbrecht, J., Mitigation of sulfate pollution by rewetting of fens—A conflict with restoring their phosphorus sink function? *Wetlands* **2009,** *29*, (4), 1093-1103.

Zantout, N.; Wilfert, P.; Smolders, A. J. P.; Weber, G.; Zacharias, D., Effects of sediment pore water qualities on the decline of Stratiotes aloides L. stands in Bremen, Germany. *Fundamental and Applied Limnology/Archiv für Hydrobiologie* **2011,** *179*, (2), 131-136.

Zehr, J. P.; Oremland, R. S., Reduction of selenate to selenide by sulfate-respiring bacteria: experiments with cell suspensions and estuarine sediments. *Applied and environmental microbiology* **1987,** *53*, (6), 1365-1369.

Zeng, L., Exploration of relationships between physiological parameters and growth performance of rice (Oryza sativa L.) seedlings under salinity stress using multivariate analysis. *Plant and soil* **2005,** *268*, (1), 51-59.

Zeng, L.; Poss, J. A.; Wilson, C.; Draz, A. S. E.; Gregorio, G. B.; Grieve, C. M., Evaluation of salt tolerance in rice genotypes by physiological characters. *Euphytica* **2003,** *129*, (3), 281-292.

Zeng, L.; Shannon, M. C., Salinity effects on seedling growth and yield components of rice. *Crop Science* **2000,** *40*, 996–1003.

Zeng, T. A., William A.;Toner, Brandy M. , Microscale Characterization of Sulfur Speciation in Lake Sediments. *Envrionmental Science and Technology* **2013,** *47*, 1287-1296.

Zerkle, A. L.; Kamyshny, A.; Kump, L. R.; Farquhar, J.; Oduro, H.; Arthur, M. A., Sulfur cycling in a stratified euxinic lake with moderately high sulfate: Constraints from quadruple S isotopes. *Geochimica et Cosmochimica Acta* **2010,** *74*, (17), 4953-4970.

Zhai, C.; Lu, C.; Zhang, X.; Sun, G.; Lorenz, K., Comparative study on nutritional value of Chinese and North American wild rice. *Journal of Food Composition and Analysis* **2001,** *14*, (4), 371-382.

Zhang, L.; Shi, W.; Wang, X., Difference in selenite absorption between high-and low-selenium rice cultivars and its mechanism. *Plant and soil* **2006,** *282*, (1), 183-193.

Zhang, T. F., Herbert H. P. , Applications of real-time polymerase chain reaction for quantification of microorganisms in environmental samples *Applied Microbiology and Biotechnology* **2006,** *70*, 281-289.

Zhang, Z.; Yang, F.; Chen, Z.; Xu, K., Relationship between diurnal changes of net photosynthetic rate and environmental factors in leaves of Zizania latifolia. *Scientia Agricultura Sinica* **2006,** *39*, (3), 502-509.

Zhou, J. H., Qiang; Hemme, Christopher L.; Mukhopadhyay, Aindrila; Hillesland, Kristina; Zhou, Aifen; He, Zhili; Van Nostrand, Joy D.; Hazen, Terry C.; Stahl, David A.; Wall, Judy D.; Arkin, Adam P. , How sulphate-reducing microorganisms cope with stress: lessons from systems biology *Nature Reviews* **2011,** *9*, 452-466.

Zhou, W.; He, P.; Li, S.; Lin, B., Mineralization of organic sulfur in paddy soils under flooded conditions and its availability to plants. *Geoderma* **2005,** *125*, (1), 85-93.