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JCAR350742-2505758r01

~~POLLUTION CONTROL BOARD
NOTICE OF PROPOSED AMENDMENT~~

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER f: RISK BASED CLEANUP OBJECTIVES

PART 742
TIERED APPROACH TO CORRECTIVE ACTION OBJECTIVES

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AUTHORITY: Implementing Sections 22.4, 22.12, Title XVI, and Title XVII and authorized by

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Sections 27 and 58.5 of the Environmental Protection Act [415 ILCS 5/22.4, 22.12, 27, and 58.5 and Title XVI and Title XVII].

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SUBPART B: GENERAL

Section 742.210 Incorporations by Reference

- a) The Board incorporates the following material by reference:

Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs), U.S. Environmental Protection Agency, 1600 Clifton Road, Mailstop F32, Atlanta, Georgia 30333, (770) 488-3357 (November 2007).

ASTM International. 100 Barr Harbor Drive, West Conshohocken PA 19428-2959, (610) 832-9585.

ASTM D 2974-00, Standard Test Methods for Moisture, Ash and Organic Matter of Peat and Other Organic Soils, approved August 10, 2000.

ASTM D 2488-00, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), approved February 10, 2000.

ASTM D 1556-00, Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method, approved March 10, 2000.

ASTM D 2167-94, Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method, approved March 15, 1994.

ASTM D 2922-01, Standard Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth), approved June 10, 2001.

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ASTM D 2937-00e1, Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method, approved June 10, 2000.

ASTM D 854-02, Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer, approved July 10, 2002.

ASTM D 2216-98, Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass, approved February 10, 1998.

ASTM D 4959-00, Standard Test Method for Determination of Water (Moisture) Content of Soil by Direct Heating, approved March 10, 2000.

ASTM D 4643-00, Standard Test Method for Determination of Water (Moisture) Content of Soil by the Microwave Oven Method, approved February 10, 2000.

ASTM D 5084-03, Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter, approved November 1, 2003.

ASTM D 422-63 (2002), Standard Test Method for Particle-Size Analysis of Soils, approved November 10, 2002.

ASTM D 1140-00, Standard Test Methods for Amount of Material in Soils Finer than the No. 200 (75 ~~µm~~µm) Sieve, approved June 10, 2000.

ASTM D 3017-01, Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth), approved June 10, 2001.

ASTM D 4525-90 (2001), Standard Test Method for Permeability of Rocks by Flowing Air, approved May 25, 1990.

ASTM D 2487-00, Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System), approved March 10, 2000.

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ASTM D 1946-90, Standard Practice for Analysis of Reformed Gas by Gas Chromatography, approved June 1, 2006.

ASTM E 1527-00, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, approved May 10, 2000. Vol. 11.04.

ASTM E 1739-95 (2002), Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites, approved September 10, 1995.

ASTM E 2121-09, Standard Practice for Installing Radon Mitigation Systems in Existing Low-Rise Residential Buildings, approved November 1, 2009.

ASTM E 2600-10, Standard Practice for Assessment for Vapor Intrusion into Structures on Property Involved in Real Estate Transactions, approved June 2010.

API. American Petroleum Institute, 1220 L Street, NW, Washington DC 20005-4070 (202) 682-8000.

BIOVAPOR-A 1-D Vapor Intrusion Model with Oxygen-Limited Aerobic Biodegradation, Version 2.0 (January 2010).

Barnes, Donald G. and Dourson, Michael. (1988). Reference Dose (RfD): Description and Use in Health Risk Assessments. Regulatory Toxicology and Pharmacology. 8, 471-486.

EPRI. Electric Power Research Institute. 3420 Hillview Avenue, Palo Alto, California 94304. (650) 855-2121.

Polycyclic Aromatic Hydrocarbons (PAHs) in Surface Soil in Illinois: Background PAHs, EPRI, Palo Alto CA, We Energies, Milwaukee WI and IEPA, Springfield IL: 2004. 1011376.

Reference Handbook for Site-Specific Assessment of Subsurface Vapor Intrusion to Indoor Air, Electric Power Research Institute (EPRI), Inc., Program No. 1008492 (March 2005).

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Washington, DC 20401, (202) 783-3238.

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~~“~~“Test Methods for Evaluating Solid Waste, Physical/Chemical Methods~~”~~”, USEPA Publication number SW-846 (Third Edition, Final Update IIIA, April 1998), as amended by Updates I, IIA, III, and IIIA (Document No. 955-001-00000-1).

~~“~~“Methods for the Determination of Organic Compounds in Drinking Water~~”~~”, EPA Publication No. EPA/600/4-88/039 (December 1988 (Revised July 1991)).

~~“~~“Methods for the Determination of Organic Compounds in Drinking Water, Supplement I~~”~~”, EPA Publication No. EPA/600/4-90/020 (July 1990).

~~“~~“Methods for the Determination of Organic Compounds in Drinking Water, Supplement II~~”~~”, EPA Publication No. EPA/600/R-92/129 (August 1992).

~~“~~“Methods for the Determination of Organic Compounds in Drinking Water, Supplement III~~”~~”, EPA Publication No. EPA/600/R-95/131 (August 1995).

~~“~~“Guidance for Data Quality Assessment, Practical Methods for Data Analysis, EPA QA/G-9, QAOO Update,~~”~~” EPA/600/R-96/084 (July 2000). Available at www.epa.gov/quality/qs-docs/g9-final.pdf.

~~“~~“Assessment of Vapor Intrusion in Homes Near the Raymark Superfund Site Using Basement and Sub-Slab Air Samples~~”~~”, EPA Publication No. EPA/600/R-05/147 (March 2006).

~~“~~“Model Standards and Techniques for Control of Radon in New Residential Buildings~~”~~” EPA Publication No. EPA/402/R-94/009 (March 1994).

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~~“~~“Radon Reduction Techniques for Existing Detached Houses: Technical Guidance (Third Edition) for Active Soil Depressurization Systems~~”~~”, EPA Publication No. EPA/625/R-93/011 (October 1993).

Illinois Environmental Protection Agency, at the address of the Illinois ~~EPA's~~EPA's headquarters as designated on the Illinois ~~EPA's~~EPA's website, (217) 785-0830.

~~“~~“A Summary of Selected Background Conditions for Inorganics in Soil~~”~~”, Publication No. IEPA/ENV/94-161 (August 1994).

IRIS. Integrated Risk Information System, National Center for Environmental Assessment, U.S. Environmental Protection Agency, 26 West Martin Luther King Drive, MS-190, Cincinnati, OH 45268, (513) 569-7254.

~~“~~“Reference Dose (RfD): Description and Use in Health Risk Assessments~~”~~”, Background Document 1A (March 15, 1993).

~~“~~“EPA Approach for Assessing the Risks Associated with Chronic Exposures to Carcinogens~~”~~”, Background Document 2 (January 17, 1992).

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Murray, Donald M. and Burmaster, David E. (1995). Residential Air Exchange Rates in the United States: Empirical and Estimated Parametric Distributions by Season and Climatic Region. Risk Analysis. 15(4), 459-465.

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NTIS. National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, (703) 487-4600.

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~~“~~“Exposures Factors Handbook, Vol. III: Activity Factors~~”~~”, EPA Publication No. EPA/600/P-95/002Fc (August 1997).

~~“~~“Risk Assessment Guidance for Superfund, Vol. I: Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors~~”~~”, OSWER Directive 9285.6-03 (March 1991).

~~“~~“Rapid Assessment of Exposure to Particulate Emissions from Surface Contamination Sites~~”~~”, EPA Publication No. EPA/600/8-85/002 (February 1985), PB 85-192219.

~~“~~“Risk Assessment Guidance for Superfund, Vol. I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final~~”~~”, EPA Publication No. EPA/540/R/99/005 (July 2004).

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United States Environmental Protection Agency, CFR Promulgated Test Methods, Methods 3C and 16, Technology Transfer Network, Emission Measurement Center (2007), available at <http://www.epa.gov/ttn/emc/promgate.html>.

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[“]“Vapor Intrusion Pathway: A Practical Guide[”]”, Technical and Regulatory Guidance. Interstate Technology and Regulatory Council (January 2007).

- b) CFR (Code of Federal Regulations). Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 (202) 783-3238:

40 CFR 761 (1998).

- c) This Section incorporates no later editions or amendments.

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Delete	74
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<u>Table Insert</u>	0
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Table moves from	0
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