

# A P P E N D I X C

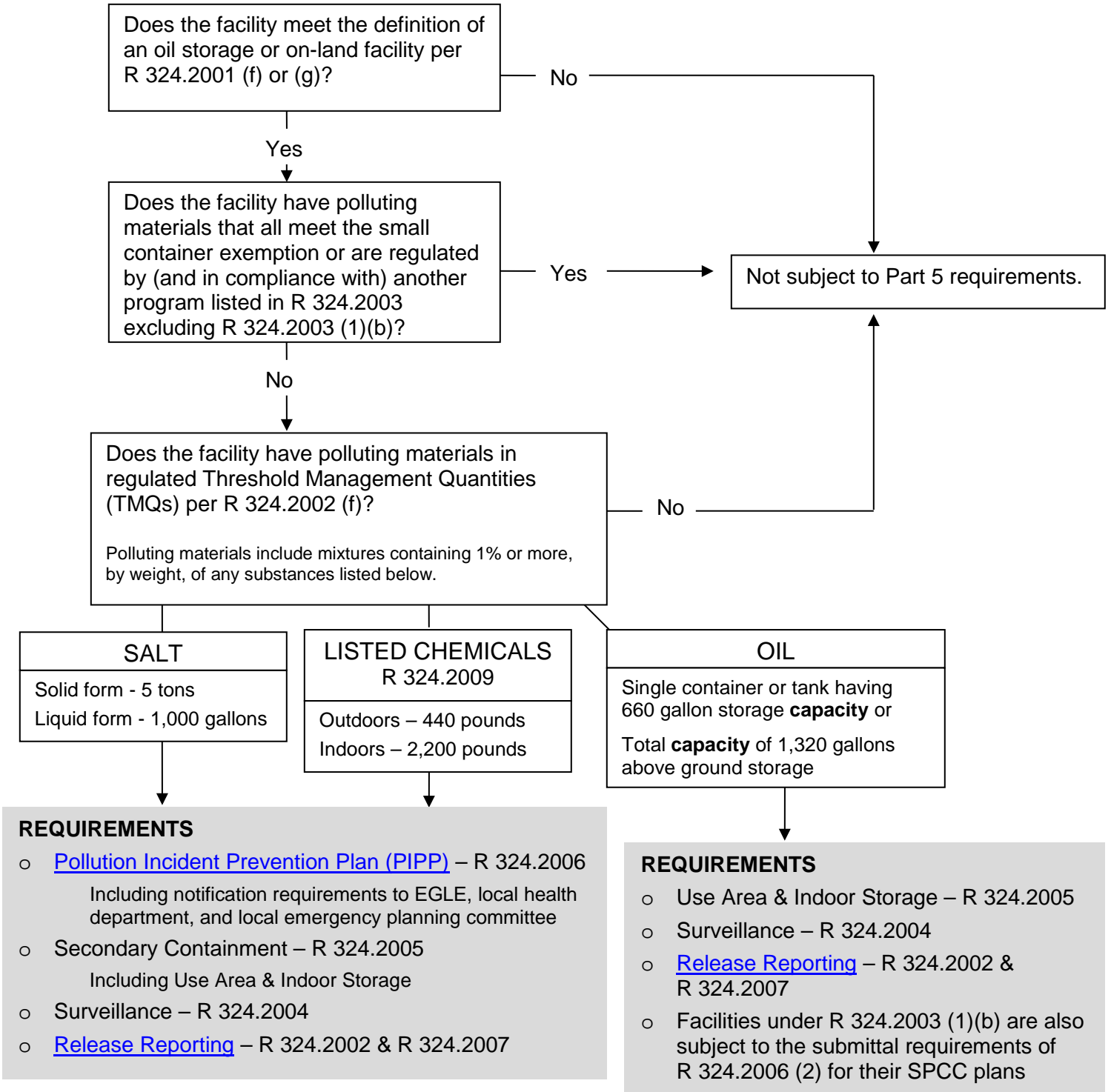
## **Appendix C:** **Natural Resources and Environmental Protection Act (NREPA) Part 31 – Part 5 Rules**

- **Applicability Flow Chart**
- **Part 5 Rules with Notes**

## Applicability Flow Chart - Part 5 Rules

### Spillage of Oil and Polluting Materials

Review the administrative rules (R 324.2001 – R 324.2009) on the following pages and ask the questions below to determine if the Part 5 requirements apply.



For more information, go to [www.michigan.gov/EGLEwater](http://www.michigan.gov/EGLEwater) - "Part 5 Rules - Spillage of Oil, Polluting Materials" or contact the Environmental Assistance Center at 800-662-9278  
Report spills: Contact 911 and the Michigan Pollution Emergency Alerting System (PEAS) at 800-292-4706

## APPENDIX C: NREPA Part 31 – Part 5 Rules

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*NOTE: The Part 5 rules, Spillage of Oil and Polluting Materials, are promulgated pursuant to [Part 31](#), Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451) MCL 324.3101 et seq. These rules became effective August 31, 2001.*

*The Department of Environment, Great Lake, and Energy (EGLE), Water Division, oversees the Part 5 rules per the DEQ Delegation Letter WD-01, effective September 15, 2002. Subsequent reorganization resulted in the Part 5 rules being overseen by the DEQ Water Resources Division. Internet links and notes have been inserted in this file to aid the reader in finding referenced regulations and program information.*

### DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY WATER RESOURCES DIVISION

#### WATER RESOURCES PROTECTION

Filed with the Secretary of State on August 23, 2001. These rules take effect 7 days after filing with the Secretary of State. (By authority conferred on the director and the department of environmental quality by sections 3102 and 3106 of 1994 PA 451, MCL 324.3102 and 324.3106, and Executive Reorganization Order No. 1991-22, MCL 299.13)

R 324.2001 to R 324.2009 are added to the Michigan Administrative Code and R 323.1151 to R 323.1159, R 323.1162 to R 323.1164, and R 323.1169 of the Code are rescinded to read as follows:

#### PART 5. SPILLAGE OF OIL AND POLLUTING MATERIALS

R 323.1151	Rescinded	R 323.1158	Rescinded
R 323.1152	Rescinded	R 323.1159	Rescinded
R 323.1153	Rescinded	R 323.1162	Rescinded
R 323.1154	Rescinded	R 323.1163	Rescinded
R 323.1155	Rescinded	R 323.1164	Rescinded
R 323.1156	Rescinded	R 323.1169	Rescinded
R 323.1157	Rescinded		

#### **R 324.2001 Definitions; a to o.**

Rule 1. As used in this part:

- (a) "Act" means [1994 PA 451](#), MCL 324.101 et seq., and known as the natural resources and environmental protection act.
- (b) "Department" means the department of environmental quality.
- (c) "Indoors" means within a building or other enclosure which provides protection from the elements, which has doors or other means of entry that can be closed or otherwise protected from unauthorized entry, and which has a floor capable of containing liquid or solid materials.
- (d) "Manufactured item" means any solid article, other than a container holding solid or liquid polluting materials, which is formed to specific shape during manufacture, and which does not leach or otherwise release polluting materials to the groundwaters or surface waters of the state under normal conditions of use or storage.
- (e) "Oil" means oil of any kind or in any form, including any of the following:
  - (i) Petroleum.
  - (ii) Gasoline.
  - (iii) Fuel oil.
  - (iv) Grease.
  - (v) Oily sludges.
  - (vi) Oil refuse.

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(vii) Oil mixed with waste.

(f) "Oil storage facility" means a temporary or permanent land-based industry, plant, establishment, firm, or other facility which receives, processes, manufactures, uses, stores, or ships oil, and at which there is present an amount of oil equal to or more than the threshold management quantity and which is so situated that oil could directly or indirectly reach the surface or groundwaters of this state, including any facility that discharges through a public sewer system. "Oil-storage facility" does not include an oil field petroleum or brine storage facility, a recreational marina, installations of oil-containing electrical equipment, or any transportation-related facility, as defined in [40 C.F.R. part 112](#).

(g) "On-land facility" means a temporary or permanent land-based industry, plant, establishment, firm, storage site, or other facility, which receives, processes, manufactures, uses, stores or ships polluting materials and at which there is present an amount of any polluting material equal to or more than its threshold management quantity and which is so situated that loss of polluting materials could directly or indirectly reach the surface or groundwaters of this state, including any facility which discharges through a public sewer system. "On-land facility" does not include an oil storage facility, an oil field petroleum or brine storage facility, a recreational marina, installations of oil containing electrical equipment, or a transportation-related facility as defined in [40 C.F.R. part 112](#).

*NOTE: See [Water Bureau POG #1](#) regarding transportation, storage, and use areas of polluting materials in railcars and trucks at Part 5 facilities.*

### **R 324.2002 Definitions; p to u.**

Rule 2. As used in this part:

(a) "Polluting material" means all of the following:

- (i) Oil.
- (ii) Salt.
- (iii) Any material specified in table 1 in R 324.2009.
- (iv) Any compound or product that contains 1%, or more, by weight, of any material listed in paragraphs (i) through (iii) of this subdivision based on material safety data sheet formulation information for the compounds or products.
- (v) "Polluting material" does not include manufactured items.

*NOTE: This document includes R 324.2009 polluting materials in 2 lists, one is sorted by the CAS number and the other is sorted alphabetically by chemical name.*

(b) "Release" is defined in section 20101(1)(bb) of the act. For the purposes of this rule, "release" does not include any of the following:

*CORRECTION: "Release" is defined in [section 20101\(1\)\(II\)](#) of the act.*

- (i) Spilling, leaking, or discharging less than 1000 gallons of a polluting material into a secondary containment structure that complies with these rules, if recovery of the material spilled, leaked, or discharged is initiated within 24 hours of detection, is completed as soon as practicable, but not more than 72 hours after detection, and if no polluting materials are released directly or indirectly to any public sewer system or to the surface waters or groundwaters of this state.
- (ii) Spilling, leaking, or discharging less than 55 gallons of oil to the ground surface, if the spill, leak, or discharge is detected and the oil recovered within 24 hours of the spill, leak, or discharge, and if oil is not released directly or indirectly to any public sewer system or to the surface waters or groundwaters of this state.
- (iii) Spilling, leaking, or discharging less than 55 gallons of oil to the surface waters of this state, if effective recovery measures are implemented in response to the spill, leak, or discharge immediately upon detection.
- (iv) Releases of air contaminants as defined in section 5501(a) of the act.
- (iv) Permitted releases as defined in section 20101(1)(aa) of the act.

*CORRECTION: "Permitted release" is defined in [section 20101\(1\)\(ii\)](#) of the act.*

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(c) "Salt" means sodium chloride, potassium chloride, calcium chloride, and magnesium chloride, and solutions or mixtures of these compounds in solid or liquid form.

(d) "Secondary containment structure" means a unit, other than the primary container in which polluting material is packaged or held, that is designed, constructed, and operated so that the polluting material cannot escape from the unit through public sewers, drains, or otherwise directly or indirectly into any public sewer system or to the surface waters or groundwaters of this state.

(e) "Sewer system" is defined in R 299.2903(8).

*CORRECTION: "Sewer system" is defined in R 299.2903(l).*

(f) "Threshold management quantity" means any of the following:

(i) For salt in solid form used, stored, or otherwise managed at any location at or within an on-land or oil storage facility, 5 tons.

(ii) For salt in liquid form used, stored, or otherwise managed at any location at or within an on-land or oil storage facility, 1000 gallons.

(iii) For oil, 1320 gallons in aboveground tanks or containers if no single tank or container has a capacity of more than of 660 gallons.

(iv) For all other polluting materials at any discrete outdoor use or storage location at an on-land or oil storage facility, 200 kilograms (440 pounds).

(v) For all other polluting materials at any discrete indoor use or storage location at an on-land or oil storage facility, 1000 kilograms (2200 pounds).

(g) "Threshold reporting quantity" means any of the following:

(i) For releases of oil to the surface of the ground, 50 pounds.

(ii) For releases of oil to the waters of the state, any quantity that causes unnatural turbidity, color, visible sheens, oil films, foams, solids, or deposits in the receiving waterbody.

(iii) For release of salt to the surface of the ground, or waters of the state, 50 pounds in solid form, unless the use is authorized by the department for deicing purposes, or 50 gallons in liquid form, unless authorized by the department as a dust suppressant or deicing agent or permitted under part 31 of the act.

*NOTE: See R 323.2210(b) in the Part 22 groundwater quality rules about applications for deicing and dust control. Discuss requirements with Water Resources Division groundwater discharge program district staff.*

(iv) For releases of all other polluting materials, the quantity specified in table 1 in R 324.2009, or any quantity that causes unnatural turbidity, color, visible sheens, oil films, foams, solids, or deposits in the receiving waterbody.

(h) "Use area" means any area within an oil storage facility or on-land facility that is used for handling, treating, or processing polluting materials.

### **R 324.2003 Conditional exemptions.**

Rule 3. (1) Except as otherwise provided in these rules, the following facilities are exempt from these rules subject to the following conditions:

(a) Any facility that manages polluting materials in excess of threshold quantities is exempt from these rules if the polluting materials are managed in containers that do not individually exceed 10 gallons or 100 pounds in capacity and that are located indoors at a facility that is designed, constructed, maintained, and operated to prevent any spilled polluting material from being released directly or indirectly to the surface or groundwaters of the state.

*NOTE: See Water Bureau POG #4 regarding Part 5 rule requirements clarifying conditional exemptions for sulfuric acid batteries in equipment.*

(b) An on-land or oil storage facility which does not manage any other polluting materials in excess of an applicable threshold management quantity and which is otherwise subject to the federal oil pollution prevention requirements of 40 C.F.R. part 110 or 112, (1997), shall comply with these rules by fully complying

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with the federal requirements and shall also report all releases of oil as required in R 324.2007. The owner or operator of such a facility shall submit a copy of the facility's spill prevention, control, and countermeasure plan in accordance with R 324.2006(2). An oil storage facility that manages both oil and other polluting materials in excess of an applicable threshold management quantity shall comply with these rules for the other polluting materials. Failure to fully comply with the federal oil pollution prevention requirements is a violation of these rules and the federal requirements and is subject to the provisions of part 31 of the act.

*NOTE: See [Water Bureau POG #2](#) regarding Part 5 rule requirements when a facility is subject to federal regulations noted in Rule 3(1)(b).*

(c) An on-land or oil storage facility subject to [1941 PA 207](#), MCL 29.1, et seq., and known as the fire prevention code, shall comply with these rules by fully complying with the provisions of 1941 PA 207, for any flammable liquids, or combustible liquids, or both, subject to 1941 PA 207. An on-land facility that manages flammable liquids, or combustible liquids, or both, and other polluting materials in excess of an applicable threshold management quantity shall comply with these rules for the other polluting materials.

(d) An on-land or oil storage facility that owns or manages underground storage tanks subject to [part 211](#) or [213](#) of the act shall comply with these rules by fully complying with the requirements of part 211 or 213 of the act for the underground storage tanks. An on-land or oil storage facility that has underground storage tanks subject to part 211 or 213 of the act that also manages other polluting materials in excess of an applicable threshold management quantity that are not subject to part 211 or 213 of the act shall comply with these rules for the other polluting materials.

(e) An on-land or oil storage facility that manages hazardous wastes subject to [part 111](#) of the act shall comply with these rules by fully complying with the requirements of part 111 of the act for those hazardous wastes. An on-land or oil storage facility that manages hazardous wastes subject to part 111 of the act that also manages other polluting materials in excess of an applicable threshold management quantity that are not subject to part 111 of the act shall comply with these rules for the other polluting materials.

(f) An on-land or oil storage facility that is subject to [part 615](#) of the act shall comply with these rules by fully complying with the requirements of part 615 of the act. An on-land or oil storage facility subject to part 615 of the act that also manages other polluting materials in excess of an applicable threshold management quantity that are not subject to part 615 of the act shall comply with these rules for the other polluting materials.

(2) Notwithstanding any other provision of these rules, if the department determines, on the basis of the physical state, chemical properties, location, manner of management, or proximity to vulnerable natural resources, that a facility that receives, uses, processes, manufactures, stores, or ships polluting materials in amounts less than an applicable threshold management quantity, can, if there is a release, be reasonably expected to cause substantial harm to the surface or groundwaters of the state, then the facility may be required to comply with these rules by a permit or an order issued under part 31 of the act and the rules promulgated under part 31 of the act.

### ***R 324.2004 Oil storage and on-land facilities: surveillance.***

Rule 4. Oil storage and on-land facilities shall maintain adequate surveillance of all manufacturing processes, treatment systems, storage areas, and other such areas so that any polluting material loss therefrom can be detected in a timely manner and procedures implemented to prevent any polluting materials from reaching the waters of this state.

### ***R 324.2005 Secondary containment.***

Rule 5. (1) Except as may be authorized under subrule (5) of this rule, not later than 24 months after the effective date of these rules, any on-land facility that has any outdoor storage areas used to store liquid polluting materials in excess of a threshold management quantity shall provide secondary containment structures for those outdoor storage areas as required in subrule (2) of this rule.

(2) Secondary containment structures for liquids shall comply with all of the following provisions:

(a) Be constructed of materials that are compatible with, and impervious to, or otherwise capable of containing, any spilled, leaked, or discharged polluting materials so that the materials can be recovered and so



that polluting materials cannot escape directly or indirectly to any public sewer system or to the surface waters or groundwaters of this state.

(b) Provide a capacity that is not less than 10% of the total volume of the tanks or containers within the secondary containment structure or provide a capacity of 100% of the largest single tank or container within the secondary containment structure, whichever is larger.

(c) Allow surveillance of the tanks or containers, the timely detection of any leaks and recovery of any spillage, and the removal and proper disposal of any captured precipitation so that the minimum required capacity is maintained at all times. Captured precipitation may be removed by drainage through normally closed valves if all of the following conditions are met:

- (i) The drainage is conducted under the direct supervision of qualified facility personnel.
- (ii) The valves are secured closed at all times, except during precipitation removal.
- (iii) The drainage is performed in full compliance with all applicable local, state, and federal requirements.

(3) All use areas and indoor storage areas shall be designed, constructed, maintained, and operated to prevent the release of polluting materials through sewers, drains, or otherwise directly or indirectly into any public sewer system or to the surface or groundwaters of this state.

(4) Polluting materials in solid form shall be enclosed, covered, contained, or otherwise protected to prevent run-on and any runoff, seepage, or leakage to any public sewer system or to the surface or groundwaters of the state. Solid polluting materials shall not be stored within 50 feet of a designated wetland or the shore or bank of any lake or stream. Solid polluting material containment structures located within a [100-year floodplain](#) as defined by the federal flood disaster protection act of 1973, 42 U.S.C. 4001 et seq., shall be designed and constructed to remain effective during a 100-year flood.

(5) Alternate secondary containment, control, or treatment systems other than those required in subrule (1) of this rule that provide adequate protection may be used upon written approval of the department. Requests for alternate secondary containment, control, or treatment systems shall be submitted in writing to the chief of the department's waste management division. The chief of the department's waste management division, or his or her authorized delegee, shall either approve, approve with specific modifications, or disapprove a request for an alternate secondary containment, control, or treatment system not more than 180 days after receipt.

**R 324.2006 Pollution incident prevention plan.**

Rule 6. (1) Except as provided in subrule (3) of this rule, not more than 24 months after the effective date of these rules, the owner or operator of any on-land facility that receives, uses, processes, manufactures, stores, or ships polluting materials in excess of the applicable threshold management quantity shall develop, maintain, and operate in accordance with, a pollution incident prevention plan. At a minimum, the pollution incident prevention plan shall include all of the following information:

- (a) All of the following general facility information:
  - (i) Facility name.
  - (ii) Mailing address.
  - (iii) Street address, if other than the mailing address.
  - (iv) Facility phone number.
  - (v) 24-hour emergency phone number or numbers.
  - (vi) Internal emergency notification procedures.
  - (vii) The name of the designated spill prevention and control coordinator.
  - (viii) The name of the person or persons responsible for on-site spill prevention and control, if different than the designated spill prevention and control coordinator.
  - (ix) The name of the facility owner.
  - (x) A map showing the facility relative to the surrounding area, including thoroughfares.
- (b) Procedures for emergency notification of all of the following entities:
  - (i) The department's pollution emergency alerting system (PEAS).
  - (ii) National response center.
  - (iii) Local emergency planning committee.

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- (ix) Local fire department.
  - (x) Local law enforcement agency.
  - (vi) Municipal wastewater treatment plant if the facility is served by a municipal wastewater treatment plant.
  - (vii) Appropriate spill cleanup contractor, or consulting firm, or both.
  - (c) All of the following spill control and cleanup procedures:
    - (i) Inventory and location of spill control and cleanup equipment available on-and off-site.
    - (ii) Procedures for response and cleanup.
    - (iii) Procedures for characterization and disposal of recovered materials.
  - (d) A polluting material inventory, including all of the following information:
    - (i) Identification of all polluting materials typically on-site in quantities exceeding the threshold management quantity during the preceding 12 months. The materials shall be identified by product name, chemical name, and chemical abstracts service number.
    - (ii) The location of material safety data sheets for all polluting materials on-site in quantities exceeding the threshold management quantity.
  - (e) A site plan depicting relevant site structures and all storage and use areas where polluting materials are managed on-site in quantities exceeding the threshold management quantity, including any of the following:
    - (i) Aboveground and underground tanks.
    - (ii) Floor drains.
    - (iii) Loading and unloading areas.
    - (iv) Sumps.
    - (v) On-site water supplies.
  - (f) Outdoor secondary containment structures, including all of the following information:
    - (i) Location or locations.
    - (ii) Design and construction data, including dimensions, materials, capacity, and the amount of the polluting materials stored in each area.
    - (iii) Provisions for the capture and removal of spilled polluting materials.
    - (iv) Provisions for secondary containment structure physical security, including signage, gates, fences, and barriers.
    - (xi) Precipitation management procedures, including characterization and disposal procedures and copies of any permits authorizing discharge.
    - (vi) Inspection and maintenance procedures.
  - (g) Other controls.
  - (h) Provisions for general facility physical security.
- (2) The facility owner or operator shall maintain the plan at the facility available for inspection upon request of the department. Within 30 days after its completion, the facility owner or operator shall notify the department and certify that the facility is in full compliance with these rules and notify the local emergency planning committee and the local health department serving the facility that the pollution incident prevention plan has been completed and is available upon request. Within 30 days after receiving a request for a copy of the plan from the department, the local emergency planning committee or the local health department, the facility owner or operator shall submit a copy of the pollution incident prevention plan to the requesting agency.
- (3) A facility that is subject to other local, state, or federal emergency or contingency planning requirements may integrate the pollution incident prevention plan with other plans if the required elements of the pollution incident prevention plan are contained in the integrated plan. Upon preparation of an integrated plan, the facility owner or operator shall submit the updated plan and shall renotify the department and recertify compliance with these rules in accordance with subrule (2) of this rule.
- (4) The facility owner or operator shall evaluate the pollution incident prevention plan or integrated plan every 3 years or after any release that requires implementation of the plan, whichever is more frequent. The facility owner or operator shall update the plan when facility personnel, processes, or procedures identified in the plan change or as otherwise necessary to maintain compliance with this rule. Upon preparation of an



updated plan, the facility owner or operator shall renotify the department and recertify compliance with these rules in accordance with subrule (2) of this rule.

(5) If the department determines that a pollution incident prevention plan prepared under subrule (1) of this rule or the applicable portions of an integrated plan prepared under subrule (3) of this rule is incomplete or inadequate, then the department may inform the owner or operator of an oil storage or on-land facility, in writing, of the department's findings and recommendations and request modification of the plan. The owner or operator of the oil storage or on-land facility shall modify the plan and resubmit it in accordance with subrule (2) of this rule within 30 days after receipt of the department's request, unless a longer response period is authorized by the department in writing.

**R 324.2007 Pollution incident report.**

Rule 7. (1) As soon as practicable after detection of a release, the owner, operator, or manager of an oil storage facility or an on-land facility that releases or permits to be released any polluting material in excess of a threshold reporting quantity during any 24-hour period shall notify the department by contacting the department's PEAS at 1-800-292-4706.

*NOTE: In addition to Rule 7 reporting requirements, the legislature requires additional release reporting if a facility was required to report under Rule 7 pursuant to:*

*Section 3111b of Part 31 was added to require a facility to call 911 (or their primary public safety answering point) and to provide a written follow-up report to their local health department if the facility is subject to release reporting under the Part 5 rules. Effective June 15, 2004.*

*Section 3115 of Part 31 was revised to include penalties for failing to report a release as required or having discharges in violation of Part 31. Effective June 15, 2004.*

*A summary for release reporting under the Part 5 rules is available at [http://www.michigan.gov/documents/deq/deq-wb-emres-reporting\\_releases\\_265047\\_7.pdf](http://www.michigan.gov/documents/deq/deq-wb-emres-reporting_releases_265047_7.pdf). A facility may also be subject to other release reporting regulations. See the summary of release reporting requirements at [www.michigan.gov/chemrelease](http://www.michigan.gov/chemrelease).*

*See the [Water Bureau POG #3](#) regarding "Reporting Spills Involving Installations of Oil-Containing Electrical Equipment"*

(2) Within 10 days after the release, the owner or operator shall file a written report with the chief of the department's waste management division outlining the cause of the release, discovery of the release, and the response measures taken or a schedule for completion of measures to be taken, or both, to prevent recurrence of similar releases.

*NOTE: Due to the reorganization of the DEQ and subsequent merger of DEQ and DNR into the DNRE, submittal of notices and certifications as required in R 324.2006 and release reporting as required in R 324.2007 are sent to the DNRE Water Resources Division District Supervisor instead of the Waste Management Division as noted in the rule. Addresses for mailing to the district offices and Part 5 rule staff contacts are at [www.michigan.gov/documents/deq/wrd-pipp-staff\\_344829\\_7.pdf](http://www.michigan.gov/documents/deq/wrd-pipp-staff_344829_7.pdf). An optional release reporting form is available at [www.michigan.gov/chemrelease](http://www.michigan.gov/chemrelease); select "release reporting forms" and then form EQP 3465 (E).*

(3) This rule does not supersede, rescind, or otherwise alter any other existing procedure, rule, or statute pertaining to pollution of the waters of this state, nor does it relieve any person from any reporting requirement imposed under federal law or regulation.

**R 324.2008 Enforcement.**

Rule 8. A person who violates any provision of this part is subject to the procedures and penalties prescribed in sections 3112, 3114, 3115, and 3115a of [part 31](#) of the act.

**R 324.2009 Table 1; polluting materials sorted by CAS number.**

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This table format is not part of the official rule package but is being provided as an aid in finding listed materials using the CAS numbers. The first entries do not have a CAS number listed in the rule.

*Note: It is recommended facilities first search using CAS numbers because chemicals may be known by different names, and then if not found on this list, check by searching the alphabetical list. CAS numbers may be found on the Material Safety Data Sheets (MSDS) obtained from manufacturers or suppliers*

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
ANTIMONY COMPOUNDS		1
ARSENIC COMPOUNDS		1
Benzidine (and salts)		1
BERYLLIUM COMPOUNDS		1
CADMIUM COMPOUNDS		1
Chloramines		1
CHLORINATED BENZENES		1
Chlorinated dibenzofurans		1
Chlorinated dioxins		1
CHLORINATED ETHANES		1
CHLORINATED NAPHTHALENE		1
CHLORINATED PHENOLS		1
Chlorine (elemental and hypochlorite salts)		10
CHLOROALKYL ETHERS		1
CHROMIUM COMPOUNDS		1
COBALT COMPOUNDS		1
COKE OVEN EMISSIONS		1
COPPER COMPOUNDS		1
CYANIDE COMPOUNDS		1
DDT (p'p', o'p' and technical salts)		1
DDT AND METABOLITES		1
DICHLOROBENZIDENE		1
DIPHENYLHYDRAZINE		1
ENDOSULFAN AND METABOLITES		1
ENDRIN AND METABOLITES		1
Fine mineral fibers		
GLYCOL ETHERS		1
HALOETHERS		1
HALOMETHANES		1
HEPTACHLOR AND METABOLITES		1
LEAD COMPOUNDS		1
Lithium and lithium salts		1
MANGANESE COMPOUNDS		1
MERCURY COMPOUNDS		1
NICKEL COMPOUNDS		1
NITROPHENOLS		1
NITROSAMINES		1

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Pentachlorophenol (and salts)		10
PHTHALATE ESTERS		1
Polybrominated biphenyls		1
POLYCYCLIC ORGANIC MATTER		1
POLYNUCLEAR AROMATIC HYDROCARBONS		1
SELENIUM COMPOUNDS		1
SILVER COMPOUNDS		1
THALLIUM COMPOUNDS		1
Triaryl phosphate esters		10
Tributyltin (and salts and esters)		1
ZINC COMPOUNDS		1
Formaldehyde	50000	10
Phenobarbitol	50066	10
Mitomycin C	50077	10
Cyclophosphamide	50180	10
DDT	50293	1
Benzo[a]pyrene	50328	1
Reserpine	50555	500
actinomycin D	50760	10
2,4-Dinitrophenol	51285	10
Epinephrine	51434	100
Propylthiouracil	51525	10
nitrogen mustard	51752	10
Urethane	51796	10
Trichlorfon	52686	10
Famphur	52857	100
Dibenz[a,h]anthracene	53703	1
2-Acetylaminofluorene	53963	1
Nicotine and salts	54115	10
isonicotinic acid hydrazine	54853	10
N-Nitrosodiethylamine	55185	1
Fenthion	55389	1
Nitroglycerin	55630	10
Diisopropylfluorophosphate	55914	10
Methylthiouracil	56042	10
Carbon tetrachloride	56235	10
Parathion	56382	10
3-Methylcholanthrene	56495	10
Diethylstilbestrol	56531	1

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<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Benz[a]anthracene	56553	10
Coumaphos	56724	10
Cyanides (soluble salts and complexes)	57125	10
1,1-Dimethylhydrazine	57147	10
Strychnine, and salts	57249	10
Phenytoin	57410	10
Physostigmine	57476	1
Semicarbazide	57567	10
beta-Propiolactone	57578	10
Physostigmine, salicylate (1:1)	57647	1
Chlordane	57749	1
7,12-Dimethylbenz[a]anthracene	57976	1
Lindane	58899	1
2,3,4,6-Tetrachlorophenol	58902	10
p-Chloro-m-cresol	59507	500
N-Nitrosomorpholine	59892	1
N-nitrosomorpholine	59892	10
Ethylenediamine-tetraacetic acid (EDTA)	60004	500
Aminoazobenzene	60093	10
Dimethylaminoazobenzene	60117	10
Ethyl ether	60297	10
Methyl hydrazine	60344	10
Acetamide	60355	10
Strychnine, sulfate	60413	10
Dimethoate	60515	10
Dieldrin	60571	1
Niridazole	61574	10
Amitrole	61825	10
Phenylmercury acetate	62384	10
Phenacetin	62442	10
Ethyl methanesulfonate	62500	1
Aniline	62533	500
Thioacetamide	62555	10
Thiourea	62566	10
Dichlorvos	62737	10
Sodium fluoroacetate	62748	10
sodium fluoroacetate	62748	1
N-Nitrosodimethylamine	62759	10
Carbaryl	63252	10
Phenol, 3-(1-methylethyl)-, methylcarbamate	64006	1
Formic acid	64186	500
Acetic acid	64197	500
Diethyl sulfate	64675	10
Nicotine sulfate	65305	10
Benzoic acid	65850	500
Uracil mustard	66751	10

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Cycloheximide	66819	1
Methanol	67561	500
Acetone	67641	500
Chloroform	67663	10
Hexachloroethane	67721	10
Dimethylformamide	68122	10
Guanidine, N-methyl-N'-nitro-N-nitroso-	70257	10
Hexachlorophene	70304	10
n-Butyl alcohol	71363	500
Benzene	71432	10
1,1,1-Trichloroethane	71556	100
Endrin	72208	1
Mestranol	72333	10
Methoxychlor	72435	1
DDD	72548	1
DDE	72559	1
Trypan blue	72571	10
Bromomethane	74839	100
Chloromethane	74873	10
Methyl iodide	74884	10
Monomethylamine	74895	10
Hydrogen cyanide	74908	10
Methyl mercaptan	74931	10
Methylene bromide	74953	100
Chloroethane	75003	10
Vinyl chloride	75014	1
Monoethylamine	75047	10
Acetonitrile	75058	500
Acetaldehyde	75070	100
Methylene chloride	75092	100
Carbon disulfide	75150	10
Calcium carbide	75207	10
Ethylene oxide	75218	10
Bromoform	75252	10
Dichlorobromomethane	75274	500
1,1-Dichloroethane	75343	100
1,1-Dichloroethylene	75354	10
Acetyl chloride	75365	500
Phosgene	75445	10
Trimethylamine	75503	10
Aziridine, 2-methyl	75558	1
Propylene oxide	75569	10
Cacodylic acid	75605	1
tert-Butylamine	75649	100
Trichlorofluoromethane (CFC-11)	75694	500
Dichlorodifluoromethane (CFC-12)	75718	500

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
2-Methylacetonitrile	75865	10
Acetaldehyde, trichloro-	75876	500
2,2-Dichloropropionic acid	75990	500
Pentachloroethane	76017	10
Heptachlor	76448	1
Hexachlorocyclopentadiene	77474	10
Dimethyl sulfate	77781	10
Tetraethyl lead	78002	10
Dioxathion	78342	1
Isophorone	78591	500
Isoprene	78795	10
iso-Butylamine	78819	100
Isobutyl alcohol	78831	500
1,2-Dichloropropane	78875	100
2,3-Dichloropropene	78886	10
Methyl ethyl ketone (MEK)	78933	500
Lactonitrile	78977	10
1,1-Dichloropropane	78999	100
1,1,2-Trichloroethane	79005	10
Trichloroethylene	79016	10
Acrylamide	79061	500
Propionic acid	79094	500
Acrylic acid	79107	500
Chloroacetic acid	79118	10
Thiosemicarbazide	79196	10
Carbonochloridic acid, methylester	79221	100
iso-Butyric acid	79312	500
1,1,2,2-Tetrachloroethane	79345	10
Dimethylcarbonyl chloride	79447	1
2-Nitropropane	79469	10
Cumene hydroperoxide	80159	10
Methyl methacrylate	80626	100
Saccharin and salts	81072	10
Warfarin, & salts, conc.>0.3%	81812	10
1-amino-2-methylantraquinone	82280	10
Pentachloronitrobenzene	82688	10
Acenaphthene	83329	10
Rotenone	83794	1
Diethyl phthalate	84662	100
n-Butyl phthalate	84742	10
Diquat	85007	100
Phenanthrene	85018	500
Phthalic anhydride	85449	500
Butyl benzyl phthalate	85687	10
N-Nitrosodiphenylamine	86306	10
Guthion	86500	1
Fluorene	86737	500

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Thiourea, 1-naphthalenyl-	86884	10
1,2,3-trichlorobenzene	87616	10
2,6-Dichlorophenol	87650	10
Hexachlorobutadiene	87683	1
Pentachlorophenol	87865	10
2,4,6-Trichlorophenol	88062	10
o-Nitrotoluene	88722	100
2-Nitrophenol	88755	10
Dinoseb	88857	100
o-Anisidine	90040	10
o-phenylphenol	90437	10
Toluene-2,6-diisocyanate	91087	10
Naphthalene	91203	10
Quinoline	91225	500
2-Chloronaphthalene	91587	500
beta-Naphthylamine	91598	10
N,N-Diethylaniline	91667	100
Methapyrilene	91805	500
3,3'-Dichlorobenzidine	91941	1
Biphenyl	92524	10
4-Aminobiphenyl	92671	1
Benzidine	92875	1
4-Nitrobiphenyl	92933	10
Silvex (2,4,5-TP)	93721	10
2,4,5-T acid	93765	100
2,4,5-T esters	93798	100
2,4-D Esters	94111	10
Dihydrosafrole	94586	10
Safrole	94597	10
2,4-D, salts and esters	94757	10
2,4-D Esters	94791	10
2,4-D Esters	94804	10
Sulfallate	95067	1
Sulfallate	95067	10
o-Xylene	95476	100
o-Cresol	95487	10
o-Dichlorobenzene	95501	10
o-Toluidine	95534	10
2-Chlorophenol	95578	10
5-chloro-o-toluidine	95794	10
2,4-Diaminotoluene	95807	10
4-chloro-o-phenylenediamine	95830	10
1,2,4,5-Tetrachlorobenzene	95943	500
2,4,5-Trichlorophenol	95954	10
Styrene oxide	96093	10
1,2-Dibromo-3-chloropropane	96128	1
Ethylene thiourea	96457	10
o-aminoazotoluene	97563	10

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Ethyl methacrylate	97632	100
Bis(dimethylthiocarbamoyl) sulfide	97745	1
Disulfiram	97778	1
Furfural	98011	500
Benzoic trichloride	98077	10
Benzenesulfonyl chloride	98099	10
Cumene	98828	500
Acetophenone	98862	500
Benzal chloride	98873	500
Benzoyl chloride	98884	100
Nitrobenzene	98953	100
m-Nitrotoluene	99081	100
1,3,5-Trinitrobenzene	99354	10
5-Nitro-o-toluidine	99558	10
5-nitro-o-anisidine	99592	1
m-Dinitrobenzene	99650	10
p-Nitrotoluene	99990	100
p-Nitroaniline	100016	500
p-Nitrophenol	100027	10
p-Dinitrobenzene	100254	10
Ethylbenzene	100414	100
Styrene	100425	100
Benzyl chloride	100447	10
Benzonitrile	100470	500
N-Nitrosopiperidine	100754	10
Anilazine	101053	1
4,4'-Methylenebis(2-chloroaniline)	101144	10
Barban	101279	1
4-Bromophenyl phenyl ether	101553	10
4,4'-methylenebis(N,N-dimethyl)benzenamine	101611	10
Methylenebis(phenylisocyanate)	101688	500
4,4'-Methylenedianiline	101779	10
4,4'-diaminodiphenyl ether	101804	10
diphenyl ether	101848	10
Azobenzene	103333	1
Phenylthiourea	103855	10
sec-Butyl acetate	105464	500
N,N'-diethylthiourea	105555	10
Caprolactam	105602	500
2,4-Dimethylphenol	105679	10
p-Xylene	106423	10
p-Cresol	106445	10
1,4-Dichlorobenzene	106467	10
p-Chloroaniline	106478	100
p-chlorophenol	106489	10
p-Toluidine	106490	10

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p-Phenylenediamine	106503	500
Quinone	106514	10
1,2-Butylene oxide	106887	10
Epichlorohydrin	106898	10
1,2-Dibromoethane	106934	1
1,3-Butadiene	106990	10
Acrolein	107028	1
Allyl chloride	107051	100
1,2-Dichloroethane	107062	10
n-Propylamine	107108	500
Ethyl cyanide	107120	10
Acrylonitrile	107131	10
Ethylenediamine	107153	500
Allyl alcohol	107186	10
Propargyl alcohol	107197	100
Chloroacetaldehyde	107200	100
Ethylene glycol	107211	500
Chloromethyl methyl ether	107302	10
Tetraethyl pyrophosphate	107493	10
Butyric acid	107926	500
Vinyl acetate	108054	500
Methyl isobutyl ketone	108101	500
Acetic anhydride	108247	500
Maleic anhydride	108316	500
m-Xylene	108383	100
m-Cresol	108394	10
Resorcinol	108463	500
Bis(2-chloro-1-methylethyl)ether	108601	100
Dichloroisopropyl ether	108601	100
Toluene	108883	100
Chlorobenzene	108907	10
Cyclohexanone	108941	500
Phenol	108952	100
Benzenethiol	108985	10
2-Methylpyridine	109068	500
Butylamine	109739	100
Malononitrile	109773	100
Diethylamine	109897	10
Furan, tetrahydro-	109999	100
Furan	110009	10
Maleic acid	110167	500
Fumaric acid	110178	500
iso-Butyl acetate	110190	500
Hexane	110543	500
2-Chloroethyl vinyl ether	110758	100
2-Ethoxyethanol	110805	100
Cyclohexane	110827	100
Pyridine	110861	100



**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Diethanolamine	111422	10
Bis(2-chloroethyl) ether	111444	10
Ethylenebisdithiocarbamic acid, salts & esters	111546	500
Bis(2-chloroethoxy) methane	111911	100
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114261	10
Azaserine	115026	1
Endosulfan	115297	1
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115322	10
Dicofol	115322	10
Fensulfotion	115902	1
Aldicarb	116063	1
2-aminoanthraquinone	117793	10
Dichlone	117806	1
Bis(2-ethylhexyl)phthalate	117817	10
Di-n-octyl phthalate	117840	500
Hexachlorobenzene	118741	10
Isopropylmethylpyrazolyl dimethylcarbamate	119380	1
3,3'-Dimethoxybenzidine	119904	10
3,3'-Dimethylbenzidine	119937	10
Anthracene	120127	500
Piperidine, 1,1'-(tetrathiodicarbonothioyl)-bis-	120547	1
Isosafrole	120581	10
piperonyl sulfoxide	120627	10
p-cresidine	120718	10
Catechol	120809	10
1,2,4-Trichlorobenzene	120821	10
2,4-Dichlorophenol	120832	10
2,4-Dinitrotoluene	121142	10
Pyrethrins	121211	1
Pyrethrins	121299	1
Triethylamine	121448	500
N,N-Dimethylaniline	121697	10
Malathion	121755	10
Benzeneethanamine, alpha, alpha-dimethyl-	122098	500
Propham	122429	1
1,2-Diphenylhydrazine	122667	10
Hydroquinone	123319	10
Maleic hydrazide	123331	500
Propionaldehyde	123386	100
N-methyl formamide	123397	10
Propionic anhydride	123626	500
Paraldehyde	123637	100

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2-Butenal, (e)-	123739	10
Butyl acetate	123864	500
1,4-Dioxane	123911	10
iso-Amyl acetate	123922	500
Adipic acid	124049	500
Dimethylamine	124403	100
Sodium methylate	124414	100
Chlorodibromomethane	124481	10
Tris(2,3-dibromopropyl) phosphate	126727	10
Methacrylonitrile	126987	100
Chloroprene	126998	10
Tetrachloroethylene	127184	10
Zinc phenolsulfonate	127822	500
Potassium dimethyldithiocarbamate	128030	1
Sodium dimethyldithiocarbamate	128041	1
Pyrene	129000	500
Warfarin sodium	129066	10
2-methyl-1-nitroanthraquinone	129157	10
1,4-Naphthoquinone	130154	500
Dimethyl phthalate	131113	500
Ammonium picrate	131748	10
2-Cyclohexyl-4,6-dinitrophenol	131895	10
sodium-o-phenylphenol	132274	10
3-amino-9-ethylcarbazole	132321	10
Dibenzofuran	132649	10
Captan	133062	10
Chloramben	133904	10
o-anisidine hydrochloride	134292	10
alpha-Naphthylamine	134327	10
Cupferron	135206	10
Carbamodithioic acid, dibutyl-, sodium salt	136301	1
phenazopyridine hydrochloride	136403	10
2,4,5-trimethylaniline	137177	10
Thiram	137268	10
Copper, bis(dimethylcarbamodithioato-S,S')-	137291	1
Ziram	137304	1
Potassium N-methyldithiocarbamate	137417	1
Sodium methyldithiocarbamate	137428	1
4,4'-thiodianiline	139651	10
Nithiazide	139946	10
Aramite	140578	1
Ethyl acrylate	140885	100
Dichrotophos	141662	1



**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Ethyl acetate	141786	500
aniline hydrochloride	142041	10
1,3-Dichloropropane	142289	500
Cupric acetate	142712	10
Dipropylamine	142847	500
Sodium cyanide (Na(CN))	143339	10
Kepone	143500	1
Selenium, tetrakis(dimethyldithiocarbamate)	144343	1
Endothall	145733	100
Carbamodithioic acid, diethyl-, sodium salt	148185	1
Melphalan	148823	1
Potassium cyanide	151508	10
Ethyleneimine	151564	1
Diphosphoramidate, octamethyl-	152169	10
p-nitrosodiphenylamine	156105	10
1,2-Dichloroethylene	156605	100
Calcium cyanamide	156627	100
Dibenz[a,i]pyrene	189559	10
Benzo[ghi]perylene	191242	500
Indeno(1,2,3-cd)pyrene	193395	10
Benzo[b]fluoranthene	205992	1
Fluoranthene	206440	10
Benzo(k)fluoranthene	207089	500
Acenaphthylene	208968	500
Chrysene	218019	10
Benz[c]acridine	225514	10
O,O-Diethyl O-pyrazinyl phosphorothioate	297972	10
Methyl parathion	298000	10
Phorate	298022	10
Disulfoton	298044	1
1,2:3,4-diepoxybutane	298180	10
Naled	300765	10
Lead acetate	301042	10
Oxydemetonmethyl	301122	10
Hydrazine	302012	1
Lasiocarpine	303344	10
Chlorambucil	305033	10
Aldrin	309002	1
Diethyl-p-nitrophenyl phosphate	311455	10
Mexacarbate	315184	100
Monocrotaline	315220	10
alpha-BHC	319846	10
alpha-Hexachlorocyclohexane	319846	10
beta-BHC	319857	1
delta-BHC	319868	1
2,5-Dinitrophenol	329715	10

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Diuron	330541	10
Diazinon	333415	1
Diazomethane	334883	10
Carbonic difluoride	353504	100
Brucine	357573	10
Cyanogen	460195	10
Ketene	463514	1
Carbon oxide sulfide (COS)	463581	10
Carbonyl sulfide	463581	10
Isodrin	465736	1
Chlorfenvinphos	470906	10
neoabietic acid	471772	1
Auramine	492808	10
Chlornaphazine	494031	10
Diaminotoluene	496720	10
4-Aminopyridine	504245	100
1,3-Pentadiene	504609	10
mustard gas	505602	10
Potassium silver cyanide	506616	1
Silver cyanide	506649	1
Cyanogen bromide	506683	100
Cyanogen chloride	506774	10
Ammonium carbonate	506876	500
Acetyl bromide	506967	500
Tetranitromethane	509148	10
Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510156	10
Trimethylphosphate	512561	1
sec-Butylamine	513495	100
abietic acid	514103	10
o-Dinitrobenzene	528290	10
Furathiazole	531828	1
2-Chloroacetophenone	532274	10
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533744	1
4,6-Dinitro-o-cresol and salts	534521	10
1,2-Dimethylhydrazine	540738	1
Hydrazine, 1,2-dimethyl-	540738	1
2,2,4-Trimethylpentane	540841	100
tert-Butyl acetate	540885	500
Uranyl acetate	541093	10
2,4-Dithiobiuret	541537	10
1,3-Dichlorobenzene	541731	10
Barium cyanide	542621	10
1,3-Dichloropropylene	542756	10
3-Chloropropionitrile	542767	100
Bis(chloromethyl) ether	542881	10
Cadmium acetate	543908	10

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Cobaltous formate	544183	100
Copper cyanide	544923	10
m-Nitrophenol	554847	10
Nickel cyanide	557197	10
Zinc cyanide	557211	10
Zinc acetate	557346	100
Zinc formate	557415	100
Ethion	563122	10
semicarbazide hydrochloride	563417	10
Thallium(I) acetate	563688	10
malachite green	569642	1
2,6-Dinitrophenol	573568	10
Benzene, 2,4-diisocyanato-1-methyl-	584849	10
1-chloropropene	590216	10
1-Acetyl-2-thiourea	591082	100
Calcium cyanide	592018	10
Mercuric cyanide	592041	1
Mercuric thiocyanate	592858	10
Lead thiocyanate	592870	10
Vinyl bromide	593602	10
Perchloromethyl mercaptan	594423	10
Bromoacetone	598312	100
5-nitroacenaphthene	602879	10
2,6-Dinitrotoluene	606202	10
hexachlorocyclohexane (all isomers)	608731	1
Pentachlorobenzene	608935	10
3,4,5-Trichlorophenol	609198	10
3,4-Dinitrotoluene	610399	10
N-Nitroso-N-methylurethane	615532	1
N-Nitrosodi-n-propylamine	621647	10
Methyl isocyanate	624839	10
dimethyl disulphide	624920	10
tert-Amyl acetate	625161	500
sec-Amyl acetate	626380	500
Amyl acetate	628637	500
Mercury fulminate	628864	10
Selenourea	630104	100
1,1,1,2 Tetrachloroethane	630206	10
phenytoin sodium	630933	10
Ammonium acetate	631618	500
1,2,3,4-tetrachlorobenzene	634662	10
1,2,3,5-tetrachlorobenzene	634902	10
o-Toluidine hydrochloride	636215	10
Fluoroacetamide	640197	10
Dimetilan	644644	1
Hexamethylphosphoramide	680319	1

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N-Nitroso-N-methylurea	684935	1
Diethylarsine	692422	1
Dichlorophenylarsine	696286	1
Phosmet	732116	10
Hexaethyl tetraphosphate	757584	10
N-Nitroso-N-ethylurea	759739	1
Ethyl dipropylthiocarbamate	759944	1
1,4-Dichloro-2-butene	764410	1
Glycidylaldehyde	765344	10
Carbophenothion	786196	1
Cupric tartrate	815827	10
Hexamethylene-1,6-diisocyanate	822060	10
Diaminotoluene	823405	10
4,4'-methylenebis(2-methylaniline)	838880	10
N-Nitrosodi-n-butylamine	924163	10
N-Nitrosopyrrolidine	930552	1
2,3,6-Trichlorophenol	933755	10
2,3,5-Trichlorophenol	933788	10
2,3,5,6-tetrachlorophenol	935955	10
alpha – Endosulfan	959988	1
Tetrachlorvinphos	961115	10
Heptachlor epoxide	1024573	1
Endosulfan sulfate	1031078	1
Chromic acetate	1066304	100
Ammonium bicarbonate	1066337	500
Lead stearate	1072351	10
N-(2-hydroxyethyl)ethyleneimine	1072522	10
Ammonium carbamate	1111780	500
Butylethylcarbamothioic acid S-propyl ester	1114712	1
N-Nitrosodiethanolamine	1116547	1
Propane sultone	1120714	10
Metolcarb	1129415	1
Cycloate	1134232	1
Ferric ammonium citrate	1185575	100
Dichlobenil	1194656	10
Xylenol	1300716	100
Arsenic pentoxide	1303282	1
Arsenic disulfide	1303328	1
Arsenic trisulfide	1303339	1
Antimony trioxide	1309644	100
Potassium hydroxide	1310583	100
Sodium hydroxide	1310732	100
Thallic oxide	1314325	10
Vanadium pentoxide	1314621	100
Sulfur phosphide	1314803	10
Zinc phosphide	1314847	10

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Zinc phosphide (conc. <= 10%)	1314847	10
Lead sulfide	1314870	10
2,4,5-T amines	1319728	500
Cresol (mixed isomers)	1319773	10
2,4-D Esters	1320189	10
Nitrotoluene	1321126	100
Arsenic acid	1327522	1
Arsenic trioxide	1327533	1
Xylene (mixed isomers)	1330207	10
Zinc borate	1332076	100
Asbestos (friable)	1332214	1
Sodium bifluoride	1333831	10
Lead subacetate	1335326	10
Ammonium hydroxide	1336216	100
Polychlorinated biphenyls	1336363	1
Methyl ethyl ketone peroxide	1338234	10
Naphthenic acid	1338245	10
Ammonium bifluoride	1341497	10
antimycin A	1397940	1
Aflatoxins	1402682	1
Clonitralid	1420048	10
Diepoxybutane	1464535	10
Carbofuran phenol	1563388	1
Carbofuran	1563662	10
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582098	10
Hydrazine, 1,2-diethyl-	1615801	10
Tetrabutylthiuram disulfide	1634022	1
Methyl tert-butyl ether	1634044	100
Aldicarb sulfone	1646884	1
Bromoxynil	1689845	1
dehydroabiatic acid	1740198	10
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746016	1
Ammonium thiocyanate	1762954	500
Nitrofen	1836755	10
Ammonium benzoate	1863634	500
Hexachloropropene	1888717	100
Paraquat	1910425	10
3,6-Dichloro-2-methoxybenzoic acid	1918009	100
2,4-D Esters	1928387	10
2,4,5-T esters	1928478	100
2,4-D Esters	1928616	10
2,4-D Esters	1929733	10
Carbamothioic acid, dipropyl-, S-propyl ester	1929777	1
Butylate	2008415	1
2,4,5-T amines	2008460	500

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Methiocarb	2032657	10
EPN	2104645	1
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212671	1
1,5-naphthalenediamine	2243621	10
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303164	10
Triallate	2303175	1
Propargite	2312358	10
silvex, propylene glycol butyl ether ester	2317240	10
Mirex	2385855	1
Captafol	2425061	1
Tetrachloroguaiacol	2539175	10
2,4,5-T esters	2545597	100
Promecarb	2631370	1
azinphos-ethyl	2642719	1
5-(Aminomethyl)-3-isoxazolol	2763964	100
Diquat	2764729	100
Chlorpyrifos	2921882	1
Ferric ammonium oxalate	2944674	100
2,4-D chlorocrotyl ester	2971382	10
2,4-D Esters	2971382	10
Ammonium citrate, dibasic	3012655	500
Ammonium tartrate	3164292	500
4-Chloro-o-toluidine, hydrochloride	3165933	10
Cupric nitrate	3251238	10
O,O-Diethyl S-methyl dithiophosphate	3288582	500
Zinc carbonate	3486359	100
Phenesterin	3546109	10
DDE	3547044	500
Nifurthiazole	3570750	10
Tetraethyldithiopyrophosphate	3689245	10
2,4,5-T amines	3813147	500
butylbutanol nitrosamine	3817116	10
Phosazetim	4104147	1
2-Butenal	4170303	10
N-Nitrosomethylvinylamine	4549400	10
2,3,4,5-tetrachlorophenol	4901513	10
4-chloro-m-phenylenediamine	5131602	10
Thiourea, (2-chlorophenyl)-	5344821	10
Cupric oxalate	5893663	10
Ethanol, 2,2'-oxybis-, dicarbamate	5952261	1
Ammonium oxalate	5972736	500
Ammonium oxalate	6009707	500

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
2,4,5-T amines	6369966	500
2,4,5-T amines	6369977	500
Thallium(I) carbonate	6533739	10
2,4,5-trichlorotoluene	6639301	10
Monocrotophos	6923224	1
3-(chloromethyl)pyridine hydrochloride	6959484	10
4-Chlorophenyl phenyl ether	7005723	500
Endrin aldehyde	7421934	1
Lead stearate	7428480	10
Lead	7439921	10
Mercury	7439976	1
Nickel	7440020	10
Silver	7440224	100
Sodium	7440235	10
Thallium	7440280	100
Antimony	7440360	500
Arsenic	7440382	1
Beryllium	7440417	10
Cadmium	7440439	10
Chromium	7440473	500
Copper	7440508	500
Zinc	7440666	100
Zinc (fume or dust)	7440666	100
Selenium dioxide	7446084	10
Lead sulfate	7446142	10
Thallium(I) sulfate	7446186	10
Lead phosphate	7446277	10
Cupric chloride	7447394	10
Selenium sulfide	7488564	10
Titanium chloride (TiCl4) (T-4)-	7550450	100
Titanium tetrachloride	7550450	100
Sodium phosphate, dibasic	7558794	500
Sodium phosphate, tribasic	7601549	500
Sodium arsenate	7631892	1
Sodium bisulfite	7631905	500
Sodium nitrite	7632000	10
Lead arsenate	7645252	1
Zinc chloride	7646857	100
Hydrochloric acid	7647010	500
Antimony pentachloride	7647189	100
Phosphoric acid	7664382	500
Hydrofluoric acid	7664393	10
Ammonia	7664417	10
Sulfuric acid	7664939	100
Sodium fluoride	7681494	100
Sodium hypochlorite	7681529	10
Nitric acid	7697372	100

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Zinc bromide	7699458	100
Crotoxyphos	7700176	10
Ferric chloride	7705080	100
Nickel chloride	7718549	10
Phosphorous trichloride	7719122	100
Ferrous sulfate	7720787	100
Potassium permanganate	7722647	10
Phosphorus	7723140	1
Zinc sulfate	7733020	100
Chromic acid	7738945	10
Sodium phosphate, tribasic	7758294	500
Ferrous chloride	7758943	10
Lead chloride	7758954	10
Cupric sulfate	7758987	10
Silver nitrate	7761888	1
Ammonium sulfamate	7773060	500
Sodium chromate	7775113	10
Arsenic acid	7778394	1
Calcium arsenate	7778441	1
Potassium bichromate	7778509	10
Calcium hypochlorite	7778543	10
Zinc hydrosulfite	7779864	100
Zinc nitrate	7779886	100
Fluorine	7782414	10
Selenium	7782492	10
Chlorine	7782505	10
Ferrous sulfate	7782630	100
Sodium selenite	7782823	10
Mercurous nitrate	7782867	10
Selenious acid	7783008	10
Hydrogen sulfide	7783064	10
Mercuric sulfate	7783359	10
Lead fluoride	7783462	10
Zinc fluoride	7783495	100
Ferric fluoride	7783508	10
Antimony trifluoride	7783564	100
Arsenous trichloride	7784341	1
Lead arsenate	7784409	1
Potassium arsenate	7784410	1
Sodium arsenite	7784465	1
Sodium phosphate, tribasic	7785844	500
Mevinphos	7786347	10
Nickel sulfate	7786814	10
Beryllium chloride	7787475	1
Beryllium fluoride	7787497	1
Beryllium nitrate	7787555	1
Ammonium chromate	7788989	10
Potassium chromate	7789006	10

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Strontium chromate	7789062	10
Ammonium bichromate	7789095	10
Cadmium bromide	7789426	10
Cobaltous bromide	7789437	100
Antimony tribromide	7789619	100
Chlorosulfonic acid	7790945	100
Thallium chloride TlCl	7791120	10
Phosphine	7803512	10
Ammonium vanadate	7803556	100
Toxaphene	8001352	1
Creosote	8001589	1
Dichloropropane – Dichloropropene (mixture)	8003198	10
Pyrethrins	8003347	1
Sulfuric acid (fuming)	8014957	100
Demeton	8065483	1
Sodium hypochlorite	10022705	10
Phosphoryl chloride	10025873	100
Antimony trichloride	10025919	100
Zirconium tetrachloride	10026116	500
Ferric sulfate	10028225	100
Thallium sulfate	10031591	10
Sodium phosphate, dibasic	10039324	500
Aluminum sulfate	10043013	500
Ferrous ammonium sulfate	10045893	100
Mercuric nitrate	10045940	10
Chromous chloride	10049055	100
Lead nitrate	10099748	10
Chromic sulfate	10101538	100
Lead iodide	10101630	10
Sodium phosphate, tribasic	10101890	500
Uranyl nitrate	10102064	10
Sodium selenite	10102188	10
Nitric oxide	10102439	10
Nitrogen dioxide	10102440	10
Thallium(I) nitrate	10102451	10
Lead arsenate	10102484	1
Cadmium chloride	10108642	10
Potassium arsenite	10124502	1
Sodium phosphate, tribasic	10124568	500
Sodium phosphate, dibasic	10140655	500
Ammonium bisulfite	10192300	500
Ammonium sulfite	10196040	500
Sodium phosphate, tribasic	10361894	500
Cupric sulfate, ammoniated	10380297	10
Mercurous nitrate	10415755	10
Ferric nitrate	10421484	100
Nitrogen dioxide	10544726	10

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Sodium bichromate	10588019	10
Carbendazim	10605217	1
Aroclor 1260	11096825	1
Aroclor 1254	11097691	1
Aroclor 1221	11104282	1
Chromic acid	11115745	10
Aroclor 1232	11141165	1
Cupric acetoarsenite (Paris green)	12002038	1
Selenious acid, dithallium(1+) salt	12039520	100
Nickel hydroxide	12054487	10
Ammonium fluoride	12125018	10
Ammonium chloride	12125029	500
Ammonium sulfide	12135761	10
Aroclor 1248	12672296	1
Aroclor 1016	12674112	1
Sulfur monochloride	12771083	100
Terbufos	13071799	1
Phosphamidon	13171216	1
N-nitrososarcosine	13256229	10
Nickel carbonyl	13463393	10
2,4,5-T salts	13560991	100
Beryllium nitrate	13597994	1
Zirconium nitrate	13746899	500
Calcium chromate	13765190	10
Lead fluoborate	13814965	10
Ammonium fluoborate	13826830	500
sec-Butylamine	13952846	100
Cobaltous sulfamate	14017415	100
Nickel nitrate	14216752	10
Ammonium oxalate	14258492	500
Ammonium tartrate	14307438	500
Ethyl Ziram	14324551	1
Tris(dimethylcarbamodithioato-S,S')iron	14484641	1
Zinc ammonium chloride	14639975	100
Zinc ammonium chloride	14639986	100
Zirconium sulfate	14644612	500
Cycasin	14901087	10
Manganese, bis (dimethylcarbamodithioato-S,S')-	15339363	1
Nickel ammonium sulfate	15699180	10
Lead sulfate	15739807	10
2,3,4-Trichlorophenol	15950660	10
Sodium hydrosulfide	16721805	500
Ethanimidothioic acid, N-[[methylamino]carbonyl]	16752775	10
Zinc silicofluoride	16871719	500
Ammonium silicofluoride	16919190	100



**APPENDIX C: NREPA Part 31 – Part 5 Rules**

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Zirconium potassium fluoride	16923958	100
Formparanate	17702577	1
Benomyl	17804352	1
Streptozotocin	18883664	1
Osmium tetroxide	20816120	100
Daunomycin	20830813	10
Aluminum phosphide	20859738	10
Leptophos	21609905	1
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781233	1
Bendiocarb	22781233	10
Bendiocarb phenol	22961826	1
Oxamyl	23135220	1
Formetanate hydrochloride	23422539	1
Thiophanate-methyl	23564058	1
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)	23950585	500
Dinitrobenzene (mixed isomers)	25154545	10
Nitrophenol (mixed isomers)	25154556	10
Sodium dodecylbenzenesulfonate	25155300	100
Trichlorophenol	25167822	10
2,4,5-T esters	25168154	100
2,4-D Esters	25168267	10
Dinitrotoluene (mixed isomers)	25321146	10
Dichlorobenzene	25321226	10
Toluenediamine	25376458	10
Dinitrophenol	25550587	10
Calcium dodecylbenzenesulfonate	26264062	100
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419738	1
Toluene diisocyanate (unspecified isomer)	26471625	10
Sodium azide (Na(N <sub>3</sub> ))	26628228	100
Dichloropropane	26638197	100
Dichloropropene	26952238	10
Dodecylbenzenesulfonic acid	27176870	100

<i>The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.</i> <b>Name</b>	<b>CAS</b>	<b>TRQ (lbs.)</b>
Triethanolamine dodecylbenzene sulfonate	27323417	100
Vanadyl sulfate	27774136	100
Antimony potassium tartrate	28300745	10
Octachlorostyrene	29082744	10
Paraformaldehyde	30525894	100
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester	30558431	1
2,4,5-TP esters	32534955	10
beta – Endosulfan	33213659	1
Fluchloralin	33245395	1
Uranyl nitrate	36478769	10
Nickel chloride	37211055	10
2,4-diaminoanisole sulfate	39156417	10
Thiofanox	39196184	10
Dinocap	39300453	1
Isopropanolamine dodecylbenzene sulfonate	42504461	100
Potassium N-hydroxymethyl-N-methyldithiocarbamate	51026289	1
Zinc ammonium chloride	52628258	100
Lead stearate	52652592	10
Calcium arsenite	52740166	1
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888809	1
2,4-D Esters	53467111	10
Aroclor 1242	53469219	1
Carbosulfan	55285148	1
3-Iodo-2-propynyl butylcarbamate	55406536	1
Ferric ammonium oxalate	55488874	100
Lead stearate	56189094	10
3-amino-9-ethylcarbazole hydrochloride	57360175	10
kanechlor C	59299513	10
Thiodicarb	59669260	1
2,4,5-T esters	61792072	100

**R 324.2009 Table 1; polluting materials sorted alphabetically by material name.**

*Note: The TRQ column is the amount that requires reporting under Rule 7 if it is a release per Rule 2(b) and (g). See Rule 2(f) for threshold management quantities.*

*It is recommended facilities first search using CAS numbers in the first listing because polluting materials may be known by different names, and then if not found on that list, check by the searching the alphabetical list.*



**APPENDIX C: NREPA Part 31 – Part 5 Rules**

Rule 9. Table 1 reads as follows:

Name	CAS	TRQ (lbs.)
1,1,1,2 Tetrachloroethane	630206	10
1,1,1-Trichloroethane	71556	100
1,1,2,2-Tetrachloroethane	79345	10
1,1,2-Trichloroethane	79005	10
1,1-Dichloroethane	75343	100
1,1-Dichloroethylene	75354	10
1,1-Dichloropropane	78999	100
1,2-Dimethylhydrazine	540738	1
1,1-Dimethylhydrazine	57147	10
1,2,3,4-tetrachlorobenzene	634662	10
1,2,3,5-tetrachlorobenzene	634902	10
1,2,3-trichlorobenzene	87616	10
1,2,4,5-Tetrachlorobenzene	95943	500
1,2,4-Trichlorobenzene	120821	10
1,2:3,4-diepoxybutane	298180	10
1,2-Butylene oxide	106887	10
1,2-Dibromo-3-chloropropane	96128	1
1,2-Dibromoethane	106934	1
1,2-Dichloroethane	107062	10
1,2-Dichloroethylene	156605	100
1,2-Dichloropropane	78875	100
1,2-Diphenylhydrazine	122667	10
1,3,5-Trinitrobenzene	99354	10
1,3-Butadiene	106990	10
1,3-Dichlorobenzene	541731	10
1,3-Dichloropropane	142289	500
1,3-Dichloropropylene	542756	10
1,3-Pentadiene	504609	10
1,4-Dichloro-2-butene	764410	1
1,4-Dichlorobenzene	106467	10
1,4-Dioxane	123911	10
1,4-Naphthoquinone	130154	500
1,5-naphthalenediamine	2243621	10
1-Acetyl-2-thiourea	591082	100
1-amino-2-methylantraquinone	82280	10
1-chloropropene	590216	10
1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester	2212671	1
2,2,4-Trimethylpentane	540841	100
2,2-Dichloropropionic acid	75990	500
2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate	22781233	1
2,3,4,5-tetrachlorophenol	4901513	10
2,3,4,6-Tetrachlorophenol	58902	10
2,3,4-Trichlorophenol	15950660	10
2,3,5,6-tetrachlorophenol	935955	10
2,3,5-Trichlorophenol	933788	10
2,3,6-Trichlorophenol	933755	10

Name	CAS	TRQ (lbs.)
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746016	1
2,3-Dichloropropene	78886	10
2,4,5-T acid	93765	100
2,4,5-T amines	1319728	500
2,4,5-T amines	6369966	500
2,4,5-T amines	2008460	500
2,4,5-T amines	6369977	500
2,4,5-T amines	3813147	500
2,4,5-T esters	25168154	100
2,4,5-T esters	61792072	100
2,4,5-T esters	2545597	100
2,4,5-T esters	93798	100
2,4,5-T esters	1928478	100
2,4,5-T salts	13560991	100
2,4,5-TP esters	32534955	10
2,4,5-Trichlorophenol	95954	10
2,4,5-trichlorotoluene	6639301	10
2,4,5-trimethylaniline	137177	10
2,4,6-Trichlorophenol	88062	10
2,4-D chlorocrotyl ester	2971382	10
2,4-D Esters	1320189	10
2,4-D Esters	94791	10
2,4-D Esters	53467111	10
2,4-D Esters	1928387	10
2,4-D Esters	1928616	10
2,4-D Esters	2971382	10
2,4-D Esters	1929733	10
2,4-D Esters	94111	10
2,4-D Esters	25168267	10
2,4-D Esters	94804	10
2,4-D, salts and esters	94757	10
2,4-diaminoanisole sulfate	39156417	10
2,4-Diaminotoluene	95807	10
2,4-Dichlorophenol	120832	10
2,4-Dimethylphenol	105679	10
2,4-Dinitrophenol	51285	10
2,4-Dinitrotoluene	121142	10
2,4-Dithiobiuret	541537	10
2,5-Dinitrophenol	329715	10
2,6-Dichlorophenol	87650	10
2,6-Dinitrophenol	573568	10
2,6-Dinitrotoluene	606202	10
2-Acetylaminofluorene	53963	1
2-aminoantraquinone	117793	10
2-Butenal	4170303	10
2-Butenal, (e)-	123739	10
2-Chloroacetophenone	532274	10
2-Chloroethyl vinyl ether	110758	100

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Name	CAS	TRQ (lbs.)
2-Chloronaphthalene	91587	500
2-Chlorophenol	95578	10
2-Cyclohexyl-4,6-dinitrophenol	131895	10
2-Ethoxyethanol	110805	100
2-methyl-1-nitroanthraquinone	129157	10
2-Methylacetonitrile	75865	10
2-Methylpyridine	109068	500
2-Nitrophenol	88755	10
2-Nitropropane	79469	10
3-(chloromethyl)pyridine hydrochloride	6959484	10
3,3'-Dichlorobenzidine	91941	1
3,3'-Dimethoxybenzidine	119904	10
3,3'-Dimethylbenzidine	119937	10
3,4,5-Trichlorophenol	609198	10
3,4-Dinitrotoluene	610399	10
3,6-Dichloro-2-methoxybenzoic acid	1918009	100
3-amino-9-ethylcarbazole	132321	10
3-amino-9-ethylcarbazole hydrochloride	57360175	10
3-Chloropropionitrile	542767	100
3-Iodo-2-propynyl butylcarbamate	55406536	1
3-Methylcholanthrene	56495	10
4,4'-diaminodiphenyl ether	101804	10
4,4'-Methylenebis(2-chloroaniline)	101144	10
4,4'-methylenebis(2-methylaniline)	838880	10
4,4'-methylenebis(N,N-dimethyl)benzenamine	101611	10
4,4'-Methylenedianiline	101779	10
4,4'-thiodianiline	139651	10
4,6-Dinitro-o-cresol and salts	534521	10
4-Aminobiphenyl	92671	1
4-Aminopyridine	504245	100
4-Bromophenyl phenyl ether	101553	10
4-chloro-m-phenylenediamine	5131602	10
4-chloro-o-phenylenediamine	95830	10
4-Chloro-o-toluidine, hydrochloride	3165933	10
4-Chlorophenyl phenyl ether	7005723	500
4-Nitrobiphenyl	92933	10
5-(Aminomethyl)-3-isoxazolol	2763964	100
5-chloro-o-toluidine	95794	10
5-nitroacenaphthene	602879	10
5-nitro-o-anisidine	99592	1
5-Nitro-o-toluidine	99558	10
7,12-Dimethylbenz[a]anthracene	57976	1
abietic acid	514103	10
Acenaphthene	83329	10
Acenaphthylene	208968	500
Acetaldehyde	75070	100

Name	CAS	TRQ (lbs.)
Acetaldehyde, trichloro-	75876	500
Acetamide	60355	10
Acetic acid	64197	500
Acetic anhydride	108247	500
Acetone	67641	500
Acetonitrile	75058	500
Acetophenone	98862	500
Acetyl bromide	506967	500
Acetyl chloride	75365	500
Acrolein	107028	1
Acrylamide	79061	500
Acrylic acid	79107	500
Acrylonitrile	107131	10
actinomycin D	50760	10
Adipic acid	124049	500
Aflatoxins	1402682	1
Aldicarb	116063	1
Aldicarb sulfone	1646884	1
Aldrin	309002	1
Allyl alcohol	107186	10
Allyl chloride	107051	100
alpha – Endosulfan	959988	1
alpha-BHC	319846	10
alpha-Hexachlorocyclohexane	319846	10
alpha-Naphthylamine	134327	10
Aluminum phosphide	20859738	10
Aluminum sulfate	10043013	500
Aminoazobenzene	60093	10
Amitrole	61825	10
Ammonia	7664417	10
Ammonium acetate	631618	500
Ammonium benzoate	1863634	500
Ammonium bicarbonate	1066337	500
Ammonium bichromate	7789095	10
Ammonium bifluoride	1341497	10
Ammonium bisulfite	10192300	500
Ammonium carbamate	1111780	500
Ammonium carbonate	506876	500
Ammonium chloride	12125029	500
Ammonium chromate	7788989	10
Ammonium citrate, dibasic	3012655	500
Ammonium fluoborate	13826830	500
Ammonium fluoride	12125018	10
Ammonium hydroxide	1336216	100
Ammonium oxalate	14258492	500
Ammonium oxalate	5972736	500
Ammonium oxalate	6009707	500
Ammonium picrate	131748	10
Ammonium silicofluoride	16919190	100
Ammonium sulfamate	7773060	500
Ammonium sulfide	12135761	10
Ammonium sulfite	10196040	500

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Name	CAS	TRQ (lbs.)
Ammonium tartrate	3164292	500
Ammonium tartrate	14307438	500
Ammonium thiocyanate	1762954	500
Ammonium vanadate	7803556	100
Amyl acetate	628637	500
Anilazine	101053	1
Aniline	62533	500
aniline hydrochloride	142041	10
Anthracene	120127	500
Antimony	7440360	500
ANTIMONY COMPOUNDS		1
Antimony pentachloride	7647189	100
Antimony potassium tartrate	28300745	10
Antimony tribromide	7789619	100
Antimony trichloride	10025919	100
Antimony trifluoride	7783564	100
Antimony trioxide	1309644	100
antimycin A	1397940	1
Aramite	140578	1
Aroclor 1016	12674112	1
Aroclor 1221	11104282	1
Aroclor 1232	11141165	1
Aroclor 1242	53469219	1
Aroclor 1248	12672296	1
Aroclor 1254	11097691	1
Aroclor 1260	11096825	1
Arsenic	7440382	1
Arsenic acid	1327522	1
Arsenic acid	7778394	1
ARSENIC COMPOUNDS		1
Arsenic disulfide	1303328	1
Arsenic pentoxide	1303282	1
Arsenic trioxide	1327533	1
Arsenic trisulfide	1303339	1
Arsenous trichloride	7784341	1
Asbestos (friable)	1332214	1
Auramine	492808	10
Azaserine	115026	1
azinphos-ethyl	2642719	1
Aziridine, 2-methyl	75558	1
Azobenzene	103333	1
Barban	101279	1
Barium cyanide	542621	10
Bendiocarb	22781233	10
Bendiocarb phenol	22961826	1
Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	1582098	10
Benomyl	17804352	1
Benz[a]anthracene	56553	10
Benz[c]acridine	225514	10
Benzal chloride	98873	500
Benzamide, 3,5-dichloro-N-(1,1-	23950585	500

Name	CAS	TRQ (lbs.)
dimethyl-2-propynyl		
Benzene	71432	10
Benzene, 2,4-diisocyanato-1-methyl-	584849	10
Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	510156	10
Benzeneethanamine, alpha,alpha-dimethyl-	122098	500
Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	115322	10
Benzenesulfonyl chloride	98099	10
Benzenethiol	108985	10
Benzidine	92875	1
Benzidine (and salts)		1
Benzo(k)fluoranthene	207089	500
Benzo[a]pyrene	50328	1
Benzo[b]fluoranthene	205992	1
Benzo[ghi]perylene	191242	500
Benzoic acid	65850	500
Benzoic trichloride	98077	10
Benzonitrile	100470	500
Benzoyl chloride	98884	100
Benzyl chloride	100447	10
Beryllium	7440417	10
Beryllium chloride	7787475	1
BERYLLIUM COMPOUNDS		1
Beryllium fluoride	7787497	1
Beryllium nitrate	7787555	1
Beryllium nitrate	13597994	1
beta – Endosulfan	33213659	1
beta-BHC	319857	1
beta-Naphthylamine	91598	10
beta-Propiolactone	57578	10
Biphenyl	92524	10
Bis(2-chloro-1-methylethyl)ether	108601	100
Bis(2-chloroethoxy) methane	111911	100
Bis(2-chloroethyl) ether	111444	10
Bis(2-ethylhexyl)phthalate	117817	10
Bis(chloromethyl) ether	542881	10
Bis(dimethylthiocarbamoyl) sulfide	97745	1
Bromoacetone	598312	100
Bromoform	75252	10
Bromomethane	74839	100
Bromoxynil	1689845	1
Brucine	357573	10
Butyl acetate	123864	500
Butyl benzyl phthalate	85687	10
Butylamine	109739	100
Butylate	2008415	1

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Name	CAS	TRQ (lbs.)
butylbutanol nitrosamine	3817116	10
Butylethylcarbamothioic acid S-propyl ester	1114712	1
Butyric acid	107926	500
Cacodylic acid	75605	1
Cadmium	7440439	10
Cadmium acetate	543908	10
Cadmium bromide	7789426	10
Cadmium chloride	10108642	10
CADMIUM COMPOUNDS		1
Calcium arsenate	7778441	1
Calcium arsenite	52740166	1
Calcium carbide	75207	10
Calcium chromate	13765190	10
Calcium cyanamide	156627	100
Calcium cyanide	592018	10
Calcium dodecylbenzenesulfonate	26264062	100
Calcium hypochlorite	7778543	10
Caprolactam	105602	500
Captafol	2425061	1
Captan	133062	10
Carbamic acid, methyl-, O-(((2,4-dimethyl-1,3-dithiolan-2-yl)methylene)amino)-	26419738	1
Carbamodithioic acid, dibutyl-, sodium salt	136301	1
Carbamodithioic acid, diethyl-, sodium salt	148185	1
Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	2303164	10
Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888809	1
Carbamothioic acid, dipropyl-, S-propyl ester	1929777	1
Carbaryl	63252	10
Carbendazim	10605217	1
Carbofuran	1563662	10
Carbofuran phenol	1563388	1
Carbon disulfide	75150	10
Carbon oxide sulfide (COS)	463581	10
Carbon tetrachloride	56235	10
Carbonic difluoride	353504	100
Carbonochloridic acid, methylester	79221	100
Carbonyl sulfide	463581	10
Carbophenothion	786196	1
Carbosulfan	55285148	1
Catechol	120809	10
Chloramben	133904	10
Chlorambucil	305033	10
Chloramines		1

Name	CAS	TRQ (lbs.)
Chlordane	57749	1
Chlorfenvinphos	470906	10
CHLORINATED BENZENES		1
Chlorinated dibenzofurans		1
Chlorinated dioxins		1
CHLORINATED ETHANES		1
CHLORINATED NAPHTHALENE		1
CHLORINATED PHENOLS		1
Chlorine	7782505	10
Chlorine (elemental and hypochlorite salts)		10
Chlornaphazine	494031	10
Chloroacetaldehyde	107200	100
Chloroacetic acid	79118	10
CHLOROALKYL ETHERS		1
Chlorobenzene	108907	10
Chlorodibromomethane	124481	10
Chloroethane	75003	10
Chloroform	67663	10
Chloromethane	74873	10
Chloromethyl methyl ether	107302	10
Chloroprene	126998	10
Chlorosulfonic acid	7790945	100
Chlorpyrifos	2921882	1
Chromic acetate	1066304	100
Chromic acid	7738945	10
Chromic acid	11115745	10
Chromic sulfate	10101538	100
Chromium	7440473	500
CHROMIUM COMPOUNDS		1
Chromous chloride	10049055	100
Chrysene	218019	10
Clonitralid	1420048	10
COBALT COMPOUNDS		1
Cobaltous bromide	7789437	100
Cobaltous formate	544183	100
Cobaltous sulfamate	14017415	100
COKE OVEN EMISSIONS		1
Copper	7440508	500
COPPER COMPOUNDS		1
Copper cyanide	544923	10
Copper, bis(dimethylcarbamodithioato-S,S')-	137291	1
Coumaphos	56724	10
Creosote	8001589	1
Cresol (mixed isomers)	1319773	10
Crotoxyphos	7700176	10
Cumene	98828	500
Cumene hydroperoxide	80159	10
Cupferron	135206	10
Cupric acetate	142712	10

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Name	CAS	TRQ (lbs.)
Cupric acetoarsenite (Paris green)	12002038	1
Cupric chloride	7447394	10
Cupric nitrate	3251238	10
Cupric oxalate	5893663	10
Cupric sulfate	7758987	10
Cupric sulfate, ammoniated	10380297	10
Cupric tartrate	815827	10
CYANIDE COMPOUNDS		1
Cyanides (soluble salts and complexes)	57125	10
Cyanogen	460195	10
Cyanogen bromide	506683	100
Cyanogen chloride	506774	10
Cycasin	14901087	10
Cycloate	1134232	1
Cyclohexane	110827	100
Cyclohexanone	108941	500
Cycloheximide	66819	1
Cyclophosphamide	50180	10
Daunomycin	20830813	10
DDD	72548	1
DDE	3547044	500
DDE	72559	1
DDT	50293	1
DDT (p'p', o'p' and technical salts)		1
DDT AND METABOLITES		1
dehydroabiatic acid	1740198	10
delta-BHC	319868	1
Demeton	8065483	1
Diaminotoluene	496720	10
Diaminotoluene	823405	10
Diazinon	333415	1
Diazomethane	334883	10
Dibenz[a,h]anthracene	53703	1
Dibenz[a,i]pyrene	189559	10
Dibenzofuran	132649	10
Dichlobenil	1194656	10
Dichlone	117806	1
Dichlorobenzene	25321226	10
DICHLOROBENZIDENE		1
Dichlorobromomethane	75274	500
Dichlorodifluoromethane (CFC-12)	75718	500
Dichloroisopropyl ether	108601	100
Dichlorophenylarsine	696286	1
Dichloropropane	26638197	100
Dichloropropane – Dichloropropene (mixture)	8003198	10
Dichloropropene	26952238	10
Dichlorvos	62737	10

Name	CAS	TRQ (lbs.)
Dichrotophos	141662	1
Dicofol	115322	10
Dieldrin	60571	1
Diepoxybutane	1464535	10
Diethanolamine	111422	10
Diethyl phthalate	84662	100
Diethyl sulfate	64675	10
Diethylamine	109897	10
Diethylarsine	692422	1
Diethyl-p-nitrophenyl phosphate	311455	10
Diethylstilbestrol	56531	1
Dihydrosafrole	94586	10
Diisopropylfluorophosphate	55914	10
Dimethoate	60515	10
dimethyl disulphide	624920	10
Dimethyl phthalate	131113	500
Dimethyl sulfate	77781	10
Dimethylamine	124403	100
Dimethylaminoazobenzene	60117	10
Dimethylcarbamyl chloride	79447	1
Dimethylformamide	68122	10
Dimetilan	644644	1
Dinitrobenzene (mixed isomers)	25154545	10
Dinitrophenol	25550587	10
Dinitrotoluene (mixed isomers)	25321146	10
Dinocap	39300453	1
Di-n-octyl phthalate	117840	500
Dinoseb	88857	100
Dioxathion	78342	1
diphenyl ether	101848	10
DIPHENYLHYDRAZINE		1
Diphosphoramidate, octamethyl-	152169	10
Dipropylamine	142847	500
Diquat	85007	100
Diquat	2764729	100
Disulfiram	97778	1
Disulfoton	298044	1
Diuron	330541	10
Dodecylbenzenesulfonic acid	27176870	100
Endosulfan	115297	1
ENDOSULFAN AND METABOLITES		1
Endosulfan sulfate	1031078	1
Endothall	145733	100
Endrin	72208	1
Endrin aldehyde	7421934	1
ENDRIN AND METABOLITES		1
Epichlorohydrin	106898	10
Epinephrine	51434	100
EPN	2104645	1
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-	30558431	1

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Name	CAS	TRQ (lbs.)
oxo-, methyl ester		
Ethanimidothioic acid, N-[[methylamino]carbonyl]	16752775	10
Ethanol, 2,2'-oxybis-, dicarbamate	5952261	1
Ethion	563122	10
Ethyl acetate	141786	500
Ethyl acrylate	140885	100
Ethyl cyanide	107120	10
Ethyl dipropylthiocarbamate	759944	1
Ethyl ether	60297	10
Ethyl methacrylate	97632	100
Ethyl methanesulfonate	62500	1
Ethyl Ziram	14324551	1
Ethylbenzene	100414	100
Ethylene glycol	107211	500
Ethylene oxide	75218	10
Ethylene thiourea	96457	10
Ethylenebisdithiocarbamic acid, salts & esters	111546	500
Ethylenediamine	107153	500
Ethylenediamine-tetraacetic acid (EDTA)	60004	500
Ethyleneimine	151564	1
Famphur	52857	100
Fensulfothion	115902	1
Fenthion	55389	1
Ferric ammonium citrate	1185575	100
Ferric ammonium oxalate	2944674	100
Ferric ammonium oxalate	55488874	100
Ferric chloride	7705080	100
Ferric fluoride	7783508	10
Ferric nitrate	10421484	100
Ferric sulfate	10028225	100
Ferrous ammonium sulfate	10045893	100
Ferrous chloride	7758943	10
Ferrous sulfate	7720787	100
Ferrous sulfate	7782630	100
Fine mineral fibers		
Fluchloralin	33245395	1
Fluoranthene	206440	10
Fluorene	86737	500
Fluorine	7782414	10
Fluoroacetamide	640197	10
Formaldehyde	50000	10
Formetanate hydrochloride	23422539	1
Formic acid	64186	500
Formparanate	17702577	1
Fumaric acid	110178	500
Furan	110009	10
Furan, tetrahydro-	109999	100
Furathiazole	531828	1

Name	CAS	TRQ (lbs.)
Furfural	98011	500
Glycidylaldehyde	765344	10
GLYCOL ETHERS		1
Guanidine, N-methyl-N'-nitro-N-nitroso-	70257	10
Guthion	86500	1
HALOETHERS		1
HALOMETHANES		1
Heptachlor	76448	1
HEPTACHLOR AND METABOLITES		1
Heptachlor epoxide	1024573	1
Hexachlorobenzene	118741	10
Hexachlorobutadiene	87683	1
hexachlorocyclohexane (all isomers)	608731	1
Hexachlorocyclopentadiene	77474	10
Hexachloroethane	67721	10
Hexachlorophene	70304	10
Hexachloropropene	1888717	100
Hexaethyl tetraphosphate	757584	10
Hexamethylene-1,6-diisocyanate	822060	10
Hexamethylphosphoramide	680319	1
Hexane	110543	500
Hydrazine	302012	1
Hydrazine, 1,2-diethyl-	1615801	10
Hydrazine, 1,2-dimethyl-	540738	1
Hydrochloric acid	7647010	500
Hydrofluoric acid	7664393	10
Hydrogen cyanide	74908	10
Hydrogen sulfide	7783064	10
Hydroquinone	123319	10
Indeno(1,2,3-cd)pyrene	193395	10
iso-Amyl acetate	123922	500
iso-Butyl acetate	110190	500
Isobutyl alcohol	78831	500
iso-Butylamine	78819	100
iso-Butyric acid	79312	500
Isodrin	465736	1
isonicotinic acid hydrazine	54853	10
Isophorone	78591	500
Isoprene	78795	10
Isopropanolamine dodecylbenzene sulfonate	42504461	100
Isopropylmethylpyrazolyl dimethylcarbamate	119380	1
Isosafrole	120581	10
kanexchlor C	59299513	10
Kepone	143500	1
Ketene	463514	1
Lactonitrile	78977	10
Lasiocarpine	303344	10



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Name	CAS	TRQ (lbs.)
Lead	7439921	10
Lead acetate	301042	10
Lead arsenate	10102484	1
Lead arsenate	7784409	1
Lead arsenate	7645252	1
Lead chloride	7758954	10
LEAD COMPOUNDS		1
Lead fluoborate	13814965	10
Lead fluoride	7783462	10
Lead iodide	10101630	10
Lead nitrate	10099748	10
Lead phosphate	7446277	10
Lead stearate	56189094	10
Lead stearate	1072351	10
Lead stearate	7428480	10
Lead stearate	52652592	10
Lead subacetate	1335326	10
Lead sulfate	7446142	10
Lead sulfate	15739807	10
Lead sulfide	1314870	10
Lead thiocyanate	592870	10
Leptophos	21609905	1
Lindane	58899	1
Lithium and lithium salts		1
malachite green	569642	1
Malathion	121755	10
Maleic acid	110167	500
Maleic anhydride	108316	500
Maleic hydrazide	123331	500
Malononitrile	109773	100
MANGANESE COMPOUNDS		1
Manganese, bis (dimethylcarbamo-dithioato-S,S')-	15339363	1
m-Cresol	108394	10
m-Dinitrobenzene	99650	10
Melphalan	148823	1
Mercuric cyanide	592041	1
Mercuric nitrate	10045940	10
Mercuric sulfate	7783359	10
Mercuric thiocyanate	592858	10
Mercurous nitrate	10415755	10
Mercurous nitrate	7782867	10
Mercury	7439976	1
MERCURY COMPOUNDS		1
Mercury fulminate	628864	10
Mestranol	72333	10
Methacrylonitrile	126987	100
Methanol	67561	500
Methapyrilene	91805	500
Methiocarb	2032657	10
Methoxychlor	72435	1
Methyl ethyl ketone (MEK)	78933	500

Name	CAS	TRQ (lbs.)
Methyl ethyl ketone peroxide	1338234	10
Methyl hydrazine	60344	10
Methyl iodide	74884	10
Methyl isobutyl ketone	108101	500
Methyl isocyanate	624839	10
Methyl mercaptan	74931	10
Methyl methacrylate	80626	100
Methyl parathion	298000	10
Methyl tert-butyl ether	1634044	100
Methylene bromide	74953	100
Methylene chloride	75092	100
Methylenebis(phenylisocyanate)	101688	500
Methylthiouracil	56042	10
Metolcarb	1129415	1
Mevinphos	7786347	10
Mexacarbate	315184	100
Mirex	2385855	1
Mitomycin C	50077	10
m-Nitrophenol	554847	10
m-Nitrotoluene	99081	100
Monocrotaline	315220	10
Monocrotophos	6923224	1
Monoethylamine	75047	10
Monomethylamine	74895	10
mustard gas	505602	10
m-Xylene	108383	100
N-(2-hydroxyethyl)ethyleneimine	1072522	10
N,N-Diethylaniline	91667	100
N,N'-diethylthiourea	105555	10
N,N-Dimethylaniline	121697	10
Naled	300765	10
Naphthalene	91203	10
Naphthenic acid	1338245	10
n-Butyl alcohol	71363	500
n-Butyl phthalate	84742	10
neoabietic acid	471772	1
Nickel	7440020	10
Nickel ammonium sulfate	15699180	10
Nickel carbonyl	13463393	10
Nickel chloride	37211055	10
Nickel chloride	7718549	10
NICKEL COMPOUNDS		1
Nickel cyanide	557197	10
Nickel hydroxide	12054487	10
Nickel nitrate	14216752	10
Nickel sulfate	7786814	10
Nicotine and salts	54115	10
Nicotine sulfate	65305	10
Nifurthiazole	3570750	10
Niridazole	61574	10
Nithiazide	139946	10
Nitric acid	7697372	100

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Name	CAS	TRQ (lbs.)
Nitric oxide	10102439	10
Nitrobenzene	98953	100
Nitrofen	1836755	10
Nitrogen dioxide	10102440	10
Nitrogen dioxide	10544726	10
nitrogen mustard	51752	10
Nitroglycerin	55630	10
Nitrophenol (mixed isomers)	25154556	10
NITROPHENOLS		1
NITROSAMINES		1
Nitrotoluene	1321126	100
N-methyl formamide	123397	10
N-Nitrosodiethanolamine	1116547	1
N-Nitrosodiethylamine	55185	1
N-Nitrosodimethylamine	62759	10
N-Nitrosodi-n-butylamine	924163	10
N-Nitrosodi-n-propylamine	621647	10
N-Nitrosodiphenylamine	86306	10
N-Nitrosomethylvinylamine	4549400	10
N-Nitrosomorpholine	59892	1
N-nitrosomorpholine	59892	10
N-Nitroso-N-ethylurea	759739	1
N-Nitroso-N-methylurea	684935	1
N-Nitroso-N-methylurethane	615532	1
N-Nitrosopiperidine	100754	10
N-Nitrosopyrrolidine	930552	1
N-nitrososarcosine	13256229	10
n-Propylamine	107108	500
O,O-Diethyl O-pyrazinyl phosphorothioate	297972	10
O,O-Diethyl S-methyl dithiophosphate	3288582	500
o-aminoazotoluene	97563	10
o-Anisidine	90040	10
o-anisidine hydrochloride	134292	10
o-Cresol	95487	10
Octachlorostyrene	29082744	10
o-Dichlorobenzene	95501	10
o-Dinitrobenzene	528290	10
o-Nitrotoluene	88722	100
o-phenylphenol	90437	10
Osmium tetroxide	20816120	100
o-Toluidine	95534	10
o-Toluidine hydrochloride	636215	10
Oxamyl	23135220	1
Oxydemetonmethyl	301122	10
o-Xylene	95476	100
Paraformaldehyde	30525894	100
Paraldehyde	123637	100
Paraquat	1910425	10
Parathion	56382	10
p-Chloroaniline	106478	100

Name	CAS	TRQ (lbs.)
p-Chloro-m-cresol	59507	500
p-chlorophenol	106489	10
p-cresidine	120718	10
p-Cresol	106445	10
p-Dinitrobenzene	100254	10
Pentachlorobenzene	608935	10
Pentachloroethane	76017	10
Pentachloronitrobenzene	82688	10
Pentachlorophenol	87865	10
Pentachlorophenol (and salts)		10
Perchloromethyl mercaptan	594423	10
Phenacetin	62442	10
Phenanthrene	85018	500
phenazopyridine hydrochloride	136403	10
Phenesterin	3546109	10
Phenobarbital	50066	10
Phenol	108952	100
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114261	10
Phenol, 3-(1-methylethyl)-, methylcarbamate	64006	1
Phenylmercury acetate	62384	10
Phenylthiourea	103855	10
Phenytoin	57410	10
phenytoin sodium	630933	10
Phorate	298022	10
Phosazetim	4104147	1
Phosgene	75445	10
Phosmet	732116	10
Phosphamidon	13171216	1
Phosphine	7803512	10
Phosphoric acid	7664382	500
Phosphorous trichloride	7719122	100
Phosphorus	7723140	1
Phosphoryl chloride	10025873	100
PHTHALATE ESTERS		1
Phthalic anhydride	85449	500
Physostigmine	57476	1
Physostigmine, salicylate (1:1)	57647	1
Piperidine, 1,1'-(tetrathiodicarbonothioyl)-bis-	120547	1
piperonyl sulfoxide	120627	10
p-Nitroaniline	100016	500
p-Nitrophenol	100027	10
p-nitrosodiphenylamine	156105	10
p-Nitrotoluene	99990	100
Polybrominated biphenyls		1
Polychlorinated biphenyls	1336363	1
POLYCYCLIC ORGANIC MATTER		1
POLYNUCLEAR AROMATIC HYDROCARBONS		1

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

Name	CAS	TRQ (lbs.)
Potassium arsenate	7784410	1
Potassium arsenite	10124502	1
Potassium bichromate	7778509	10
Potassium chromate	7789006	10
Potassium cyanide	151508	10
Potassium dimethyldithiocarbamate	128030	1
Potassium hydroxide	1310583	100
Potassium N-hydroxymethyl-N-methyldithiocarbamate	51026289	1
Potassium N-methyldithiocarbamate	137417	1
Potassium permanganate	7722647	10
Potassium silver cyanide	506616	1
p-Phenylenediamine	106503	500
Promecarb	2631370	1
Propane sultone	1120714	10
Propargite	2312358	10
Propargyl alcohol	107197	100
Propham	122429	1
Propionaldehyde	123386	100
Propionic acid	79094	500
Propionic anhydride	123626	500
Propylene oxide	75569	10
Propylthiouracil	51525	10
p-Toluidine	106490	10
p-Xylene	106423	10
Pyrene	129000	500
Pyrethrins	121299	1
Pyrethrins	121211	1
Pyrethrins	8003347	1
Pyridine	110861	100
Quinoline	91225	500
Quinone	106514	10
Reserpine	50555	500
Resorcinol	108463	500
Rotenone	83794	1
Saccharin and salts	81072	10
Safrole	94597	10
sec-Amyl acetate	626380	500
sec-Butyl acetate	105464	500
sec-Butylamine	513495	100
sec-Butylamine	13952846	100
Selenious acid	7783008	10
Selenious acid, dithallium(1+) salt	12039520	100
Selenium	7782492	10
SELENIUM COMPOUNDS		1
Selenium dioxide	7446084	10
Selenium sulfide	7488564	10
Selenium, tetrakis(dimethyldithiocarbamate)	144343	1
Selenourea	630104	100

Name	CAS	TRQ (lbs.)
Semicarbazide	57567	10
semicarbazide hydrochloride	563417	10
Silver	7440224	100
SILVER COMPOUNDS		1
Silver cyanide	506649	1
Silver nitrate	7761888	1
Silvex (2,4,5-TP)	93721	10
silvex, propylene glycol butyl ether ester	2317240	10
Sodium	7440235	10
Sodium arsenate	7631892	1
Sodium arsenite	7784465	1
Sodium azide (Na(N3))	26628228	100
Sodium bichromate	10588019	10
Sodium bifluoride	1333831	10
Sodium bisulfite	7631905	500
Sodium chromate	7775113	10
Sodium cyanide (Na(CN))	143339	10
Sodium dimethyldithiocarbamate	128041	1
Sodium dodecylbenzenesulfonate	25155300	100
Sodium fluoride	7681494	100
Sodium fluoroacetate	62748	10
sodium fluoroacetate	62748	1
Sodium hydrosulfide	16721805	500
Sodium hydroxide	1310732	100
Sodium hypochlorite	10022705	10
Sodium hypochlorite	7681529	10
Sodium methylate	124414	100
Sodium methyldithiocarbamate	137428	1
Sodium nitrite	7632000	10
Sodium phosphate, dibasic	10039324	500
Sodium phosphate, dibasic	10140655	500
Sodium phosphate, dibasic	7558794	500
Sodium phosphate, tribasic	10361894	500
Sodium phosphate, tribasic	7785844	500
Sodium phosphate, tribasic	7601549	500
Sodium phosphate, tribasic	7758294	500
Sodium phosphate, tribasic	10101890	500
Sodium phosphate, tribasic	10124568	500
Sodium selenite	7782823	10
Sodium selenite	10102188	10
sodium-o-phenylphenol	132274	10
Streptozotocin	18883664	1
Strontium chromate	7789062	10
Strychnine, and salts	57249	10
Strychnine, sulfate	60413	10
Styrene	100425	100
Styrene oxide	96093	10
Sulfallate	95067	1
Sulfallate	95067	10
Sulfur monochloride	12771083	100

**APPENDIX C: NREPA Part 31 – Part 5 Rules**

Name	CAS	TRQ (lbs.)
Sulfur phosphide	1314803	10
Sulfuric acid	7664939	100
Sulfuric acid (fuming)	8014957	100
Terbufos	13071799	1
tert-Amyl acetate	625161	500
tert-Butyl acetate	540885	500
tert-Butylamine	75649	100
Tetrabutylthiuram disulfide	1634022	1
Tetrachloroethylene	127184	10
Tetrachloroguaiacol	2539175	10
Tetrachlorvinphos	961115	10
Tetraethyl lead	78002	10
Tetraethyl pyrophosphate	107493	10
Tetraethylthiopyrophosphate	3689245	10
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533744	1
Tetranitromethane	509148	10
THALLIUM COMPOUNDS		1
Thallic oxide	1314325	10
Thallium	7440280	100
Thallium chloride TlCl	7791120	10
Thallium sulfate	10031591	10
Thallium(I) acetate	563688	10
Thallium(I) carbonate	6533739	10
Thallium(I) nitrate	10102451	10
Thallium(I) sulfate	7446186	10
Thioacetamide	62555	10
Thiodicarb	59669260	1
Thiofanox	39196184	10
Thiophanate-methyl	23564058	1
Thiosemicarbazide	79196	10
Thiourea	62566	10
Thiourea, (2-chlorophenyl)-	5344821	10
Thiourea, 1-naphthalenyl-	86884	10
Thiram	137268	10
Titanium chloride (TiCl <sub>4</sub> ) (T-4)-	7550450	100
Titanium tetrachloride	7550450	100
Toluene	108883	100
Toluene diisocyanate (unspecified isomer)	26471625	10
Toluene-2,6-diisocyanate	91087	10
Toluenediamine	25376458	10
Toxaphene	8001352	1
Triallate	2303175	1
Triaryl phosphate esters		10
Tributyltin (and salts and esters)		1
Trichlorfon	52686	10
Trichloroethylene	79016	10
Trichlorofluoromethane (CFC-11)	75694	500
Trichlorophenol	25167822	10
Triethanolamine dodecylbenzene sulfonate	27323417	100

Name	CAS	TRQ (lbs.)
Triethylamine	121448	500
Trimethylamine	75503	10
Trimethylphosphate	512561	1
Tris(2,3-dibromopropyl) phosphate	126727	10
Tris(dimethylcarbamodithioato-S,S')iron	14484641	1
Trypan blue	72571	10
Uracil mustard	66751	10
Uranyl acetate	541093	10
Uranyl nitrate	36478769	10
Uranyl nitrate	10102064	10
Urethane	51796	10
Vanadium pentoxide	1314621	100
Vanadyl sulfate	27774136	100
Vinyl acetate	108054	500
Vinyl bromide	593602	10
Vinyl chloride	75014	1
Warfarin sodium	129066	10
Warfarin, & salts, conc.>0.3%	81812	10
Xylene (mixed isomers)	1330207	10
Xylenol	1300716	100
Zinc	7440666	100
Zinc (fume or dust)	7440666	100
Zinc acetate	557346	100
Zinc ammonium chloride	14639986	100
Zinc ammonium chloride	14639975	100
Zinc ammonium chloride	52628258	100
Zinc borate	1332076	100
Zinc bromide	7699458	100
Zinc carbonate	3486359	100
Zinc chloride	7646857	100
ZINC COMPOUNDS		1
Zinc cyanide	557211	10
Zinc fluoride	7783495	100
Zinc formate	557415	100
Zinc hydrosulfite	7779864	100
Zinc nitrate	7779886	100
Zinc phenolsulfonate	127822	500
Zinc phosphide	1314847	10
Zinc phosphide (conc. <= 10%)	1314847	10
Zinc silicofluoride	16871719	500
Zinc sulfate	7733020	100
Ziram	137304	1
Zirconium nitrate	13746899	500
Zirconium potassium fluoride	16923958	100
Zirconium sulfate	14644612	500
Zirconium tetrachloride	10026116	500