



# RAILROAD COMMISSION OF TEXAS

## OIL AND GAS DIVISION

January 8, 2020

### To: Contact Persons for 2019 Hazardous Oil and Gas Waste Generators

The 2019 Annual Hazardous Oil and Gas Waste Report package (Annual Report) may be found at the Railroad Commission of Texas's website at <https://www.rrc.state.tx.us/oil-gas/applications-and-permits/environmental-permit-types-information/hazardous-waste/>.

A separate report is required for each generation site. Please forward this letter to the appropriate person responsible for completing and submitting the Annual Report. The Annual Report package includes the Railroad Commission of Texas (RRC) "2019 Hazardous Oil and Gas Waste Report" (Form H-21) and instructions for completing the Form. The instructions will also assist in calculating the required annual fee for the site's hazardous oil and gas waste generation. The generator may pick up a complete Annual Report package at any RRC District Office, or if requested, Environmental Permits and Support will mail the package to the generator.

The completed 2019 Hazardous Oil and Gas Waste Report (RRC Form H-21) for the site must be submitted to this office no later than March 1, 2020. The report must be accompanied by the correct annual fee payment.

**Note to Large and Small Quantity Generators (LQGs and SQGs) whose site has a permanent registration but will submit the voluntary "Voluntary Notification of Exemption From 2019 Hazardous Oil and Gas Waste Reporting" Form, included as Attachment A in this package.**

This indicates that the site was not an LQG or an SQG in 2019, despite the site having that status on its notice of registration. If the site will remain a Conditionally Exempt Small Quantity Generator (CESQG) or will not generate any hazardous oil and gas waste in the future (inactive), submit to this office a subsequent notification [The Environmental Protection Agency (EPA) "RCRA Subtitle C Site Identification" Form, and RRC "Hazardous Oil and Gas Waste Generator (and Transporter) Notification" Form H-20]. The subsequent notification should indicate the current status of the site and any other amended information (e.g., contact person).

If you have any questions regarding the Annual Report or for submitting a subsequent notification, please contact Environmental Permits and Support at 512-463-3840 or by e-mail at [hazardouswasteprogram@rrc.texas.gov](mailto:hazardouswasteprogram@rrc.texas.gov). The EPA "RCRA Subtitle C Site Identification" Form is available on the RRC web site at <https://www.rrc.state.tx.us/media/2598/formepa8700p.pdf>.

**RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION  
2019 RRC ANNUAL REPORT  
HAZARDOUS OIL AND GAS WASTE  
STATEWIDE RULE 98**

-----**Cover Sheet**-----

The Annual Report Package for hazardous oil and gas waste generation and management in 2019 by Large Quantity Generators (LQGs) and Small Quantity Generators (SQGs) is due no later than March 1, 2020. The appropriate annual fee must accompany each annual report. Sites that were Conditionally Exempt Small Quantity Generators (CESQGs) in all months of 2019 are not required to submit an Annual Report Package or required to pay an annual fee. Please refer to Texas Administrative Code (TAC), Title 16, Part 1, Chapter 3.98 (Statewide Rule 98), subsections (u) and (z), for specific reporting and fee requirements. The Railroad Commission of Texas (RRC) Oil and Gas Statewide Rules can be found at <https://www.rrc.state.tx.us/oil-gas/applications-and-permits/environmental-permit-types-information/hazardous-waste/>.

Statewide Rule 98, subsection (u)(1), requires the use of RRC Form H-21, 2019 Hazardous Oil and Gas Waste Report, for submission of the Annual Report Package. RRC Form H-21 and detailed instructions for completing Form H-21 are provided on the following pages. The following pages include:

- RRC Form H-21
- Instructions for completing Form H-21, *2019 Hazardous Oil and Gas Waste Report*
- Attachment A: Voluntary Notification of Exemption From Reporting
- Attachment B: NAICS Codes
- Attachment C: Annual Hazardous Oil and Gas Waste Generation Fee
- Attachment D: Source Codes
- Attachment E: Form Codes
- Attachment F: Management Method Codes

As noted above, a site registered as a LQG or a SQG, but actually operated as a CESQG during all months of 2019, is not required to submit an Annual Report. However, those sites registered as LQG or SQG but were actually CESQG the entire year may *voluntarily* complete and submit the "Report Exemption Form" (**Attachment A** to these instructions). The definitions of LQG, SQG, and CESQG sites are provided in Rule 98, subsection (f).

Contact information for the Railroad Commission's Hazardous Waste Program is provided on the back of this page.

***File Annual Reports with the Railroad Commission in Austin  
Do Not Send Annual Reports To EPA***

**Railroad Commission  
Oil and Gas Division  
Technical Permitting  
Hazardous Waste**

**Contact Information**

Send completed 2019 Hazardous Oil and Gas Waste Reports and Annual Fees to the following address:

Railroad Commission of Texas  
Oil and Gas Division  
Technical Permitting  
Environmental Permits & Support  
P.O. Box 12967  
Austin, Texas 78711-2967

RRC Form H-21 is available on the RRC web site at [www.rrc.texas.gov](http://www.rrc.texas.gov) if additional copies are needed.

For regulatory guidance please contact Environmental Permits and Support at 512-463-3840 or by e-mail at [hazardouswasteprogram@rrc.texas.gov](mailto:hazardouswasteprogram@rrc.texas.gov).

Oil and Gas Division  
Technical Permitting  
P.O. Box 12967  
Austin, Texas 78711-2967

*Read attached instructions prior to completing form.*

**I. Identification Information**

|  |  |   |  |
|--|--|---|--|
| A. Company Name/Site Name                            |  | B. Mailing address (including city, state, and zip) |  |
| C. P-5 name (if different than above)                |  | D. P-5 number                                       |  |
| E. Location Address (including city, state, and zip) |  | F. EPA ID No.                                       |  |
| G. Name and title of contact person                  |  | H. NAICS Code                                       |  |
| I. E-mail address (if available)                     |  | J. Phone No.  |  |

**II. Site Status**

|                              |                              |  |                             |
|------------------------------|------------------------------|--|-----------------------------|
| A. Generator Status          |                              | B. Was at least 50% of hazardous oil and gas waste generated in 2019 recycled? |                             |
| <input type="checkbox"/> LQG | <input type="checkbox"/> SQG | <input type="checkbox"/> Yes   | <input type="checkbox"/> No |

**Complete Section IV, Waste Generation and Management, on the back of this form. Reproduce the back of this form as necessary for reporting generation and management of additional wastes.**

**III. Certification**

|   |  |  |                      |
|---|--|--|----------------------|
| I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete, to the best of my knowledge. |  |  |                      |
| A. Please Print: Last Name First Name M.I.  |  |  | B. Title             |
| C. Signature  |  |  | D. Date of Signature |



**Instructions**  
**2019 Hazardous Oil and Gas Waste Report**  
**RRC Form H-21**

rev. 12/11

**Section I      "Identification Information"**

Complete boxes A - J with company and site information. In Box F, enter the site's assigned 12-digit EPA ID number.

In Boxes G - J, enter name, title, e-mail address (if available), and phone number of person to contact should questions arise concerning information contained in this report. For NAICS Code in Box H, please see Attachment B ("1987 SIC Matched to 1997 NAICS").

**Section II      "Site Status"**

Box A:    Mark box that applies to the site's generator status (LQG or SQG).

Box B:    Mark "Yes" or "No" to indicate whether at least 50% of the hazardous oil and gas wastes generated during the entire calendar year have been recycled, reclaimed, or reused. The answer to this question determines if the additional fee is applied to this generation site. Please see Attachment C ("Annual Hazardous Oil and Gas Waste Generation Fee") to these instructions for more detailed guidance regarding recycling and the annual fee calculation.

**Section III     "Certification"**

Complete boxes A - D with indicated information. In Box C, an original signature is necessary for the report to be considered complete.

**Section IV     "Waste Generation and Management"**

***Reproduce the back of Form H-21 (Section IV), as necessary, for reporting generation and management of each additional waste. Make sure the site's EPA ID Number is on each additional page of this report.***

***Also, include a page number for each page filed for each additional waste.***

Box A:    Provide a short narrative description of the waste, citing:

- General type,
- Source,
- Type of hazard, and
- Generic chemical name and primary hazardous constituents

Box B:    Enter the corresponding EPA hazardous waste number. If there is more than one hazardous waste number for this waste, complete the appropriate number of spaces. If additional space is needed, use comments box (Box O) and cross-reference the comment by entering, for example "Section IV Box B". If fewer than four EPA hazardous waste numbers are applicable, enter "NA" in the remaining spaces.

Box C:    Enter the total quantity (in pounds) of waste generated during the calendar year for the waste reported.

Box D:    Enter the source code that describes the type of process or activity from which the hazardous oil and gas waste was generated. The list of source codes is provided in Attachment D.

- Box E: Enter the form code that describes the general physical and chemical characteristics of the hazardous oil and gas waste as it applies to the waste described in Box A. The list of form codes is provided in Attachment E.
- Box F: Enter the management method code that reflects the method of waste management (treatment, disposal, recycle) used on-site. Enter "NA" if not applicable. Enter the quantity (in pounds) that applies to this management method code. The list of management method codes is provided in Attachment F.
- Box G: If more than one management method code is necessary use "On-site Process System Type 2" and the comments box (Box O). If only one management method code is applicable place "NA" in the spaces reserved for "On-site Process System Type 2."
- Box H: Mark "Yes" or "No" as it applies to the waste described in Box A.
- Box I-K: Enter the management method code that reflects the method of waste management (treatment, disposal, storage) used by the receiving facility. Also, enter the quantity (in pounds) shipped off-site and the receivers' EPA ID No. If the waste was not shipped off-site, place "NA" in Boxes I - K. The list of management method codes is provided in Attachment F.
- Box L-N: If a second management method code and/or receiving facility were used, enter corresponding information in Boxes L - N. Any additional management method codes or receiving facilities may be entered in the comments box (Box O) with reference made to these boxes.
- Box O: Include any comments or additional information in (Box O), making reference to the corresponding box for which the information is intended.

# Railroad Commission of Texas

## Oil and Gas Division

Technical Permitting

P.O. Box 12967

Austin, Texas 78711-2967

512-463-3840

### Voluntary Notification of Exemption From 2019 Hazardous Oil and Gas Waste Reporting

If this site is NOT required to file the 2019 Annual Report, you may *voluntarily* complete and return this form. The form indicates you are exempt from the annual report requirement. RRC will use the forms to help distinguish sites exempt from reporting from those sites not reporting as required by Rule 98. Please return the form to the address provided above.

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This site is exempt from the requirement to file the 2019 Annual Report because the site was not a Large Quantity Generator or Small Quantity Generator in any month of 2019.

It is expected that this site will remain exempt from the requirement to file the Annual Report:

Check one:

- For 2019 only
- Permanently
- Other (Explain: \_\_\_\_\_)

EPA ID: \_\_\_\_\_

Company Name: \_\_\_\_\_

Site Name: \_\_\_\_\_

Site Location/Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Phone Number and E-mail of Contact: \_\_\_\_\_



**Attachment B**

**1987 SIC Matched to 1997 NAICS**

| <b>1987 SIC</b> | <b>U.S. SIC Description</b>               | <b>1997 NAICS</b> | <b>NAICS Description</b>                           |
|-----------------|---|-------------------|--|
| 1311            | Crude petroleum and natural gas           | 211111            | Crude petroleum and natural gas extraction         |
| 1321            | Natural gas liquids                       | 211112            | Natural gas liquid extraction (pt)                 |
| 1381            | Drilling oil and gas wells                | 213111            | Drilling oil and gas wells                         |
| 1382            | Oil and gas field exploration services    | 54136             | Geophysical surveying and mapping services (pt)    |
|                 |   | 213112            | Support activities for oil and gas operations (pt) |
| 1389            | Oil and gas field services, nec           | 213112            | Support activities for oil and gas operations (pt) |
| 4612            | Crude petroleum pipelines                 | 48611             | Pipeline transportation of crude oil               |
| 4922            | Natural gas transmission                  | 48621             | Pipeline transportation of natural gas (pt)        |
| 4923            | Natural gas transmission and distribution | 22121             | Natural gas distribution (pt)                      |
|                 |   | 48621             | Pipeline transportation of natural gas (pt)        |
| 4924            | Natural gas distribution                  | 22121             | Natural gas distribution (pt)                      |

| <b>1987 SIC</b> | <b>U.S. SIC Description</b>                              | <b>1997 NAICS</b> | <b>NAICS Description</b>                                 |
|-----------------|--|-------------------|--|
| 5171            | Petroleum bulk stations and terminals                    | 42271             | Petroleum bulk stations and terminals                    |
| 1474            | Salines (except common salt) mining and/or beneficiating | 212391            | Salines (except common salt) mining and/or beneficiating |
| 4226            | Special warehousing and storage                          | 49319             | Other warehousing and storage (bulk petroleum storage)   |

**ANNUAL HAZARDOUS OIL AND GAS WASTE GENERATION FEE****BASE FEE**

The base fees for LQGs and SQGs are provided below. However, it is important to note that a generator's final fee determination may be impacted by his or her response to a discharge event or the amount of generated hazardous oil and gas waste he or she recycles. These provisions are explained below. Also, see Rule 98, Subsection (z).

**LQG Base Fee**

Each generator who is classified as an LQG during any calendar month of a calendar year shall pay to the RRC a base annual fee for generation of hazardous oil and gas waste of \$2,500.00.

**SQG Base Fee**

Each generator who is not classified as an LQG during any calendar month of a calendar year but is classified as an SQG during a calendar month of that calendar year, shall pay to the RRC a base annual fee for generation of hazardous oil and gas waste of \$500.00.

**CESQG Fee Exemption**

No annual fee for generation of hazardous oil and gas waste shall be assessed against a generator who is classified as a CESQG during all months of the entire calendar year in which he or she generates hazardous oil and gas waste.

**BASE FEE DETERMINATION - WASTE VOLUMES FROM SPILLS OR DISCHARGES**

*For the purposes of determining the base fee*, the generator classification that is used may be determined after excluding quantities of hazardous oil and gas waste generated in connection with a spill or discharge, including contaminated soil, media, and debris, *if*, within 30 days after discovery of such spill or discharge, the generator has filed with the Hazardous Waste Program at RRC headquarters in Austin a one-page typewritten report that describes:

- the nature and quantity of spilled or discharged material;
- the reason for or cause of the spill or discharge; and
- the steps that have been or will be taken by the generator to minimize the likelihood of a similar spill or discharge at that site.

**ADDITIONAL FEE FOR LESS THAN 50% RECYCLING**

The base annual fee is doubled *if less than 50%* of the hazardous oil and gas wastes generated at the site during the entire calendar year are recycled, reused or reclaimed. The generator must indicate and certify on the annual report (form H-21) that at least 50% of the hazardous oil and gas wastes generated at the site during the entire calendar year were recycled, reused or reclaimed. For example, if an LQG site did not recycle at least 50% of its hazardous waste, the annual fee would be \$5,000 (i.e., \$2,500 x 2).

For purposes of calculating the percentage of hazardous oil and gas wastes that are recycled, reused, or reclaimed, certain wastes either excluded from regulation under Rule 98, or subject to reduced regulation under Rule 98, may be included in the quantity of hazardous oil and gas waste recycled, reused, or reclaimed. These wastes are those described in Rule 98, subsections (e)(3)(B)(i)-(iii) and (m)(2)(B).

Subsection (e)(3)(B)(i)-(iii) refers to recyclable materials listed in 40 CFR §261.6(a)(2)-(3) and used oil that is not considered a hazardous waste under the provisions of 40 CFR §279.10(b) and that is managed as provided in 40 CFR Part 279. A *general description* of the wastes listed in 40 CFR §261.6(a)(2)-(3) is provided below:

- used batteries returned to manufacturers for regeneration,
- spent lead-acid batteries being reclaimed,
- used oil exhibiting a characteristic that is recycled but not burned for energy recovery (except by a generator or in a BIF that is not marketed),
- scrap metal,
- fuels produced from oil-bearing hazardous waste,
- petroleum coke,
- industrial ethyl alcohol,
- materials used or reused to make a product in an industrial process,
- materials used or reused as substitutes for commercial products, and
- materials that are returned to the process from which they are generated.

Rule 98, Subsection (m)(2)(B), discusses exceptions to the general prohibition of on-site treatment or storage of hazardous oil and gas waste. Specifically, the subsection lists requirements for the use of elementary neutralization units, totally enclosed treatment facilities, and wastewater treatment units.

**Important note:** The wastes excluded from substantive regulation under Rule 98 under the provisions of subsections (e)(3)(B)(i)-(iii) and (m)(2)(B) of Rule 98 **shall not** be included when calculating the quantity of waste generated for purposes of determining generation site classification.

#### **FEE PAYMENT**

The base fee and any additional fee assessed under this subsection shall be paid to the RRC on or before the first day of March of the year following the calendar year in which the waste was generated. Therefore, for hazardous oil and gas waste generated in 2018, the annual fee is to be submitted on or before March 1, 2020. Fees assessed under Rule 98 must be submitted to the RRC with the annual report (form H-21).

**It is very important that you submit the correct annual fee payment with the annual report. If you have any questions regarding the annual fee calculation, please contact Environmental Permits and Support by calling 512-463-3840, or by sending e-mail to [HazardousWasteProgram@RRC.Texas.Gov](mailto:HazardousWasteProgram@RRC.Texas.Gov).**

## Attachment D

**SOURCE CODES** Source codes describe the type of process or activity (i.e., source) from which a hazardous waste was generated.

| Code  | Source Code Group   |
|---|---|
| <b>Wastes from Ongoing Production and Service Processes</b>     |   |
| G01   | Dip, flush or spray rinsing (using solvents to clean or prepare parts or assemblies for further processing - i.e. painting or assembly)               |
| G02   | Stripping and acid or caustic cleaning (using caustics to remove coatings or layers from parts or assemblies )  |
| G03   | Plating and phosphating (electro- or non-electroplating or phosphating)   |
| G04   | Etching (using caustics or other methods to remove layers or partial layers)  |
| G05   | Metal forming and treatment (pickling, heat treating, punching, bending, annealing, grinding, hardening, etc.)  |
| G06   | Painting and coating (manufacturing, building, or maintenance)  |
| G07   | Product and by-product processing (direct flow of wastes from chemical manufacturing or processing, etc.)   |
| G08   | Removal of spent process liquids or catalysts (bulk removal of wastes from chemical manufacturing or processing, etc.)                                |
| G09   | Other production or service-related processes from which the waste is a direct outflow or result (specify in comments)                                |
| <b>Other Intermittent Events or Processes</b>                   |   |
| G11   | Discarding off-specification or out-of-date chemicals or products (unused chemicals or products - corresponds to P and U hazardous waste codes)       |
| G12   | Lagoon or sediment dragout and leachate collection (large scale operations in open pits, ponds, or lagoons)   |
| G13   | Cleaning out process equipment (periodic sludge or residual removal from enclosed processes including internal scrubbing or cleaning)                 |
| G14   | Removal of tank sludge, sediments, or slag (periodic sludge or residual removal from storage tanks including internal scrubbing or cleaning)          |
| G15   | Process equipment change-out or discontinuation of equipment use (final materials and residuals removal including cleaning)                           |
| G16   | Oil changes and filter or battery replacement (automotive, machinery, etc)  |
| G19   | Other one-time or intermittent processes (specify in comments)  |
| <b>Pollution Control and Waste Management Process Residuals</b> |   |
| G21   | Air pollution control devices (baghouse dust or ash from stack scrubbers or precipitators; vapor collection, etc.)                                    |
| G22   | Laboratory analytical wastes (used chemicals from laboratory operations)  |
| G23   | Wastewater treatment (sludge, filter cake, etc., including wastes from treatment before discharge by NPDES or POTW or by UIC disposal)                |
| G24   | Solvent or product distillation or recovery (sludge, waste solvent, bottoms, from recovery/recycling of used product)                                 |
| G25   | Hazardous waste management - indicate management method (for residuals from regulated hazardous waste treatment processes - enter the related H code) |
| G26   | Leachate collection (from landfill operations or other land units)  |
| G27   | Hazardous residual from treatment or recovery of universal waste  |

| <b>Spills and Accidental Releases</b>    |   |
|--|---|
| G31                                      | Accidental contamination of products, materials, or containers (other than G11) |
| G32                                      | Cleanup of spill residues (infrequent, not routine)                             |
| G33                                      | Leak collection and floor sweeping (ongoing, routine)                           |
| G39                                      | Other cleanup of current contamination (specify in comments)                    |
| <b>Remediation of Past Contamination</b> |   |
| G41                                      | Closure of hazardous waste management unit under RCRA                           |
| G42                                      | Corrective action at a solid waste management unit under RCRA                   |
| G43                                      | Remedial action or emergency response under Superfund                           |
| G44                                      | State program or voluntary cleanup  |
| G45                                      | Underground storage tank cleanup  |
| G49                                      | Other remediation (specify in comments)   |

## Attachment E

### FORM CODES

Form codes describe the general physical and chemical characteristics of a hazardous waste.

| Code | Form Code Group   |
|------|---|
|      | <b>Mixed Media/Debris/Devices</b> - Waste that is a mixture of organic and inorganic wastes, liquid and solid wastes, or devices that are not easily categorizable  |
| W001 | Lab packs from any source <b>not containing</b> acute hazardous waste   |
| W002 | Contaminated debris (see definition at 40 CFR 268.2(g) and requirements at 40 CFR 268.45): for example, certain paper, clothing, rags, wood, empty fiber or plastic containers, glass, piping, other solids (usually from construction, demolition, cleaning, or remediation) |
| W004 | Lab packs from any source <b>containing acute</b> hazardous waste   |
| W301 | Contaminated soil (usually from spill clean up, demolition, or remediation); see also W512  |
| W309 | Batteries, battery parts, cores, casings (lead-acid or other types)   |
| W310 | Filters, solid adsorbents, ion exchange resins and spent carbon (usually from production, intermittent processes, or remediation)   |
| W320 | Electrical devices (lamps, fluorescent lamps, or thermostats usually containing mercury; CRTs containing lead; etc)   |
| W512 | Sediment or lagoon dragout, drilling or other muds (wet or muddy soils); see also W301  |
| W801 | Compressed gases of any type  |
|      | <b>Inorganic Liquids</b> - Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content  |
| W101 | Very dilute aqueous waste containing more than 99% water (land disposal restriction defined wastewater that is not exempt under NPDES or POTW discharge)  |
| W103 | Spent concentrated acid (5% or more)  |
| W105 | Acidic aqueous wastes less than 5% acid (diluted but pH <2)   |
| W107 | Aqueous waste containing cyanides (generally caustic)   |
| W110 | Caustic aqueous waste without cyanides (pH >12.5)   |
| W113 | Other aqueous waste or wastewaters (fluid but not sludge)   |
| W117 | Waste liquid mercury (metallic)   |
| W119 | Other inorganic liquid (specify in comments)  |
|      | <b>Organic Liquids</b> - Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content   |
| W200 | Still bottoms in liquid form (fluid but not sludge)   |
| W202 | Concentrated halogenated (e.g., chlorinated) solvent  |
| W203 | Concentrated non-halogenated (e.g., non-chlorinated) solvent  |
| W204 | Concentrated halogenated/ non-halogenated solvent mixture   |
| W205 | Oil-water emulsion or mixture (fluid but not sludge)  |
| W206 | Waste oil   |
| W209 | Paint, ink, lacquer, or varnish (fluid - not dried out or sludge)   |
| W210 | Reactive or polymerizable organic liquids and adhesives (fluid but not sludge)  |
| W211 | Paint thinner or petroleum distillates  |
| W219 | Other organic liquid (specify in comments)  |
|      | <b>Inorganic Solids</b> - Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable   |
| W303 | Ash (from any type of burning of hazardous waste)   |

| <b>Code</b>  | <b>Form Code Group</b>   |
|--|--|
| W304   | Slags, drosses, and other solid thermal residues   |
| W307   | Metal scale, filings and scrap (including metal drums)   |
| W312   | Cyanide or metal cyanide bearing solids, salts or chemicals                                    |
| W316   | Metal salts or chemicals not containing cyanides   |
| W319   | Other inorganic solids (specify in comments)   |
| <b>Organic Solids</b> - Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable  |  |
| W401   | Pesticide solids (used or discarded - not contaminated soils - W301)                           |
| W403   | Solid resins, plastics or polymerized organics   |
| W405   | Explosives or reactive organic solids  |
| W409   | Other organic solids (specify in comments)   |
| <b>Inorganic Sludges</b> - Waste that is primarily inorganic, with moderate-to-high water content and low organic content; mostly pumpable |  |
| W501   | Lime and/or metal hydroxide sludges and solids with no cyanides (not contaminated muds - W512) |
| W503   | Gypsum sludges from wastewater treatment or air pollution control                              |
| W504   | Other sludges from wastewater treatment or air pollution control                               |
| W505   | Metal bearing sludges (including plating sludge) not containing cyanides                       |
| W506   | Cyanide-bearing sludges (not contaminated soils - W512)  |
| W519   | Other inorganic sludges (not contaminated muds - W512; specify in comments)                    |
| <b>Organic Sludges</b> - Waste that is primarily organic with low-to-moderate inorganic solids content and water content; pumpable         |  |
| W603   | Oily sludge (not contaminated muds - W512)   |
| W604   | Paint or ink sludges, still bottoms in sludge form (not contaminated muds - W512)              |
| W606   | Resins, tars, polymer or tarry sludge (not contaminated muds - W512)                           |
| W609   | Other organic sludge (specify in comments)   |



## Attachment F

**MANAGEMENT METHOD CODES** Management Method codes describe the type of hazardous waste management system used to treat or dispose a hazardous waste.

| Code  | Management Method Code Group   |
|---|--|
| <b>Reclamation and Recovery</b>                                   |  |
| H010  | Metals recovery including retorting, smelting, chemical, etc.  |
| H020  | Solvents recovery (distillation, extraction, etc)  |
| H039  | Other recovery or reclamation for reuse including acid regeneration, organics recovery, etc. (specify in comments)   |
| H050  | Energy recovery at this site - used as fuel (includes on-site fuel blending before energy recovery; report only this code)   |
| H061  | Fuel blending prior to energy recovery at another site (waste generated either on site or received from off site)  |
| <b>Destruction or Treatment Prior to Disposal at Another Site</b> |  |
| H040  | Incineration - thermal destruction other than use as a fuel (includes any preparation prior to burning)  |
| H071  | Chemical reduction with or without precipitation (includes any preparation or final processes for consolidation of residuals)  |
| H073  | Cyanide destruction with or without precipitation (includes any preparation or final processes for consolidation of residuals)   |
| H075  | Chemical oxidation (includes any preparation or final processes for consolidation of residuals)  |
| H076  | Wet air oxidation (includes any preparation or final processes for consolidation of residuals)   |
| H077  | Other chemical precipitation with or without pre-treatment (includes processes for consolidation of residuals)   |
| H081  | Biological treatment with or without precipitation (includes any preparation or final processes for consolidation of residuals)  |
| H082  | Adsorption (as the major component of treatment)   |
| H083  | Air or steam stripping (as the major component of treatment)   |
| H101  | Sludge treatment and/or dewatering (as the major component of treatment; not H071-H075, H077, or H082)   |
| H103  | Absorption (as the major component of treatment)   |
| H111  | Stabilization or chemical fixation prior to disposal at another site (as the major component of treatment; not H071-H075, H077, or H082)   |
| H112  | Macro-encapsulation prior to disposal at another site (as the major component of treatment; not reportable as H071-H075, H077, or H082)  |
| H121  | Neutralization only (no other treatment)   |
| H122  | Evaporation (as the major component of treatment; not reportable as H071-H083)   |
| H123  | Settling or clarification (as the major component of treatment; not reportable as H071-H083)   |
| H124  | Phase separation (as the major component of treatment; not reportable as H071-H083)  |
| H129  | Other treatment (specify in comments; not reportable as H071-H124)   |
| <b>Disposal</b>   |  |
| H131  | Land treatment or application (to include on-site treatment and/or stabilization)  |
| H132  | Landfill or surface impoundment that will be closed as landfill (to include onsite treatment and/or stabilization)   |
| H134  | Deepwell or underground injection (with or without treatment; this waste was counted as hazardous waste)   |
| H135  | Discharge to sewer/POTW or NPDES (with prior storage - with or without treatment)  |
| <b>Transfer Off Site</b>  |  |
| H141  | The site receiving this waste stored/bulked and transferred the waste with no treatment or recovery (H010-H129), fuel blending (H061), or disposal (H131-H135) at that receiving site. |