



WASTE MANAGEMENT
& RADIATION CONTROL

Division of Waste Management and Radiation Control

Used Oil Marketer Registration



Company Name: Emerald Services, Inc.

Mailing Address: 3545 West 500 South
Salt Lake City, Utah 84104

Phone Number: Office: (801) 596-4803

Company Contact: Justin Bauer, Sr. Manager Environmental Compliance
Cell: (602) 329-0177
Email: bauer.justin@cleanharbors.com

Company Physical Address: 650 West 500 South (Union Pacific Rail Yard)
Salt Lake City, Utah 84119

Marketer Registration Number: UOR-0077

EPA ID Number: UTR000007831

Original Date of Issuance: March 31, 2004

Signature: _____

Date: _____

Douglas J. Hansen, Director
Division of Waste Management and Radiation Control

A. General Marketer Requirements

- A.1. Emerald Services, Inc. (Emerald Services) located at 650 West 500 South, Salt Lake City, Utah 84119 (EPA ID # UTR000007831) is hereby authorized to operate as a used oil marketer in accordance with all applicable requirements of R315-15 of the Utah Administrative Code and of the Used Oil Management Act (the Act) 19-6-701 et. seq., Utah Code Annotated and this Marketer Registration.
- A.2. Emerald Services shall adhere to the sampling and analytical requirements of Conditions B through D and Attachment 1 when determining whether used oil meets the specification requirements of R315-15-1.2 of the Utah Administrative Code.
- A.3. Emerald Services shall keep analytical records and other information used to make a determination that used oil meets the on or off-specification requirements for a minimum of three years at 3545 West 500 South, Salt Lake City, Utah.
- A.4. Emerald Services shall not act as a used oil fuel marketer without first receiving an annual used oil handler certificate from the Director as required by R315-15-13.7 and R315-15-13.8 of the Utah Administrative Code.
- A.5. Attachments incorporated by reference are enforceable conditions of this registration, as are documents incorporated by reference into the attachments. Language in Conditions A through F. supersedes any conflicting language in the attachments or documents incorporated into the attachments.
- A.6. Modifications to the Marketer Sampling and Analysis Plan are not allowed without written approval of the Director.

B. Used Oil Specification Determination

- B.1. Trained Emerald Services personnel shall collect a representative sample in accordance with Attachment 1 - Sampling and Analysis Plan and Conditions B through D., in clean sample jars from the used oil storage tank or container.
- B.2. When a container (tank, rail car, drum or tote) is designated to be managed as on-specification used oil, a representative sample will be taken in accordance with method ASTM D5495-03 (COLIWASA) or other equivalent method. The container shall then be locked out to prohibit the addition or removal of used oil from the container/tank.
- B.3. The entire sample will be placed into an appropriate container. The contents will be homogenized and aliquoted into the appropriate sample containers for analysis.
- B.4. Compositing a sample from multiple tanks or containers is prohibited. Each tank or container shall be sampled individually to determine whether used oil meets specification requirements of R315-15-1.2 of Utah Administrative Code.
- B.5. Emerald Services personnel shall record the time, date, the initials of the person collecting the sample, and a unique sample number for each sample collected on the sample jar label and on associated sampling documents (e.g. laboratory chain-of-custody form).
- B.6. Emerald Services shall use a Utah-certified laboratory to prepare and analyze all samples in accordance with R315-15-1.8 of Utah Administrative Code.

C. Analytical Method Requirements

C.1. Emerald Services shall assure that the laboratory methods listed in Table C.2 are used by the laboratory to analyze all collected samples for the constituents specified by R315-15-1.2 of Utah Administrative Code.

Table C.1. Sample Preparation and Analytical Methods

Constituents	Regulatory Levels	Preparatory Methods	Analytical Methods (SW-846, EPA)
Arsenic	≤ 5 mg/kg	3031 or 3051A	6010C/6010D
Cadmium	≤ 2 mg/kg	3031 or 3051A	6010C/6010D
Chromium	≤ 10 mg/kg	3031 or 3051A	6010C/6010D
Lead	≤ 100 mg/kg	3031 or 3051A	6010C/6010D
Flash Point	≥ 100 degrees F	1010A or 1020B (ASTM D93-80 or D 3278-78)	1010A or 1020B (ASTM D93-80 or D 3278-78)
Total Halogens	≤ 1000 mg/kg	9075 or 9076	9075 or 9076
PCBs	< 2 mg/kg	3580A/ 3665A (Cleanup)	8082A
<p>*PCB concentrations mean a record of information that describes the PCB concentration in mg/kg (ppm). *A total of seven of the Aroclors® specified in the list below shall be analyzed which will include Aroclor® 1016, Aroclor® 1221, Aroclor® 1232, Aroclor® 1242, Aroclor® 1248, Aroclor® 1254, and Aroclor® 1260, and any Aroclor associated with a specific type of oil.</p>			
PCB CAS RN		PCB Aroclor	
12674-11-2		1016*	
147601-87-4		1210	
151820-27-8		1216	
11104-28-2		1221*	
37234-40-5		1231	
11141-16-5		1232*	
71328-89-7		1240	
53469-21-9		1242*	
12672-29-6		1248*	
165245-51-2		1250	
89577-78-6		1252	
11097-69-1		1254*	
11096-82-5		1260*	
37324-23-5		1262	
11100-14-4		1268	

D. Quality Control Parameters

- D.1. Emerald Services shall collect and analyze additional quality control samples for every 20 used oil samples collected in accordance with the parameters in Table D.1.
- D.2. Emerald Services shall retain from the laboratory, the quality control summary of each sample batch.

Table D.1. Quality Control Samples Collected for Every 20 Samples

Parameter	Field Duplicate	Matrix Spike (MS)	Matrix Spike Duplicate (MSD)	Recovery (%)	RPD of MS/MSD and Duplicates (%)
Total Metals	1	1	1	75-125%	<25%
Total Halogens	1	1	1	75-125%	<25%
PCBs	1	1	1	75-125%	<25%
Flashpoint	1	NA	NA	NA	<2°C

- D.3. Table D.2. specifies the type of sample containers, sample preservation requirements and maximum holding times for each method.

Table D.2. Method Sample Containers, Size, Preservation, and Holding Times

Method	Container Types/Minimum Sample Size	Preservation	Maximum Holding Time
Total Metals (As, Cd, Cr, Pb) 6010C or D	4 oz. PTFE/HDPE or Glass (Teflon –Lined Cap)	None	6 months
Total Halogens 9075 or 9076	4 oz. Glass, No headspace (Teflon –Lined Cap)	Cool, 4°- 6°C	28 days
PCBs 8082A	4 oz. amber Glass (Teflon –Lined Cap)	Cool, 4°- 6°C	14 days prior to extraction/40 days prior to analysis
Flashpoint 1010A	8 oz Glass, No headspace (Teflon –Lined Cap)	Cool, 4°- 6°C	28 days

E. Training

- E.1. Emerald Services shall initially train employees that handle used oil and applicable records identified in Condition A through F. New employees may not manage used oil without a trained employee present until training has been completed.
- E.2. Emerald Services shall ensure that employees can demonstrate competence to collect a representative used oil sample from tank or containers.

- E.3. Emerald Services shall provide, at a minimum, an annual used oil training refresher course for its employees associated with this registration.
- E.4. Emerald Services shall keep copies of training records for each employee for a minimum of three years. Employees and supervisors shall sign and date the training attendance sheet to document class attendance.

F. Record Keeping/Tracking/ Marketing

- F.1. Emerald Services shall keep a record of each shipment of used oil shipped to an off-specification used oil burner. These records can be a log, invoice, manifest, bill of lading or other shipping document. Records shall include the information specified in R315-15-7.5(a).
- F.2. Emerald Services shall keep a record of each shipment of used oil that is shipped to an on-specification used oil burner for energy recovery that meets the fuel specification under R315-15-1.2. This record shall contain the information required in R315-15-7.5(b).
- F.3. The analytical data shall be cross-referenced on the shipping documents to support the determination of used oil specification required under R315-15-7.3 and R315-15-18. This information shall be maintained for a minimum of three years and be easily assessable for inspection.

Attachment 1 **Sampling and Analysis Plan**

Sampling:

1. Initially, Emerald Services will sample and analyze representative sample(s) of its generated used oil.
2. When a container (tank, drum, or tote) is designated to be sampled, a representative sample will be taken in accordance with method ASTM D5495-03 (COLIWASA). The container shall then be locked out to prohibit the addition or removal of used oil from the container/tank.
3. The entire sample shall be placed into an appropriate container. The contents shall be mixed and a representative sample placed into appropriate sample containers for analysis.
4. Samples will be collected for the parameters specified in R315-15-1.2 of Utah Administrative Code and Table C.1.
5. Emerald Services personnel shall record the time, date, the initials of the person collecting the sample and a unique sample number for each sample collected on the sample jar label and on associated sampling documents (e.g. laboratory chain-of-custody form).
6. Table D.2. specifies the type of sample containers, sample preservation requirements and maximum holding times for each method for samples sent to a laboratory for analysis.

Analytical Requirements:

- 1 Emerald Services shall use a Utah-certified laboratory to analyze samples in accordance with R315-15-1.8 of Utah Administrative Code.
- 2 Emerald Services shall assure that the laboratory performing analysis on used oil samples for constituents specified by R315-15-1.2 of the Utah Administrative Code use the sample preparation and analytical methods listed in Table C.1. (Sample Preparation and Analytical Methods).

Quality Control Parameters

- 1 Emerald Services shall collect and analyze quality control samples in accordance with the parameters listed in Table D.1.
- 2 Emerald Services shall retain from the laboratory, the quality control summary of each sample batch.

Attachment 2 **Generator Knowledge**

Generator Knowledge

1. Acceptable knowledge that may be used in making an accurate determination as to whether the used oil is on or off-specification used oil for certain parameters, these include:
 - a. information as to whether the used oil has been mixed with other materials that could cause it to be off-specification (e.g. antifreeze, degreasers, etc.),
 - b. the process producing the used oil, (e.g., metalworking oils, transformer oils)
 - c. testing, and
 - d. other reliable and relevant information (e.g., industry documentation such as hydraulic oil having the potential for PCBs).
2. When available knowledge is inadequate to make an accurate determination, the generator shall test the oil using the methods specified in Table 1, Attachment 2-Sampling and Analysis Plan.
3. If the used oil has halogen content greater than 1,000 ppm the generator may be able demonstrate through the rebuttable presumption that the used oil meets the specification.
4. Documentation shall be kept for a minimum of three years that supports the determination made by the generator through generator knowledge, testing or a combination of both.