VOLUME 2. TD*X Comments on Thermaldyne, 7/30/2018
**AI Number 198467, PER20170003**

ATTACHMENT 4

A – Thermaldyne PFD, Material and Energy Balance and Emission Estimates

B – El Dorado Engineering Thermaldyne Process Flow Diagram, Heat & Material Balance & Emission Estimate Review

C – Review of the Thermaldyne Air Permit Estimated Emissions

D – TDX Reclaimed Oil Load Report (Basis for recycled oil quantity)

E – Mercury Profiles Report (Basis for mercury pollutant HRA in Thermaldyne feedstream)

F – LVM/SVM Profiles Report (Basis for SVM/LVM pollutant HRA in Thermaldyne feedstream)

G – Chlorine Profiles Report (Basis for HCl pollutant HRA in Thermaldyne feedstream)

2018.07.30
16:12:26 -04'00'

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 120104-619 | 7,201 | PR1545 | 527-78-8/527-96-9 | 111212JST12/111229JST12 |
| 120105-620 | 6,968 | PR1546 | 527-78-8/527-102-28 | 111212JST12/120103JST11 |
| 120106-621 | 6,834 | PR1547 | 527-78-8/527-102-28 | 111212JST12/120101JST11 |
| 120106-622 | 6,375 | PR1548 | 527-78-8/527-102-24 | 111212JST12/120103JST10 |
| 110109-623 | 6,976 | PR1549 | 527-78-8/527-106-12 | 111212JST12/120106JST13 |
| 120113-624 | 6,757 | PR1551 | 527-78-8/527-112-12 | 111212JST12/120112JST10 |
| 120113-625 | 6,568 | PR1552 | 527-78-8/527-108-25 | 111212JST12/120109JST12 |
| 120114-626 | 6,799 | PR1553 | 527-78-8/527-113-22 | 111212JST12/120113JST13 |
| 120118-627 | 6,417 | PR1554 | 527-78-8/527-117-25 | 111212JST12/120116JST12 |
| 120118-628 | 6,849 | PR1555 | 527-78-8/527-118-1 | 111212JST12/120116JST10 |
| 120119-629 | 6,867 | PR1557 | 527-78-8/NA | 111212JST12/120118JST13A |
| 120121-630 | 6,461 | PR1559 | 527-78-8/527-124-9 | 111212JST12/120120JST10 |
| 120125-631 | 6,549 | PR1560 | 527-78-8/527-128-23 | 111212JST12/120124JST12 |
| 120127-632 | 6,600 | PR1561 | 527-78-8/527-128-23 | 111212JST12/120124JST12 |
| 120128-633 | 6,127 | PR1570 | 527-78-8/527-130-9 | 111212JST12/1201125JST10 |
| 120131-635 | 6,358 | PR1579 | 527-78-8/527-137-23 | 111212JST12/120130JST12T13 |
| 120131-636 | 5,606 | PR1580 | 527-121-10/527-137-23 | 120118JST13/120130JST12T13 |
| 120201-637 | 5,729 | PR1586 | 527-121-10/527-139-19 | 120118JST13/120131JST13 |
| 120201-638 | 5,650 | PR1585 | 527-121-10/527-139-19 | 120118JST13/120131JST13 |
| 120208-639 | 5,685 | PR1596 | 527-121-10/527-143-13 | 120118JST13/120203JST12 |
| 120208-640 | 5,665 | PR1597 | 527-121-10/527-143-13 | 120118JST13/120203JST12 |
| 120209-641 | 5,783 | PR1601 | 527-121-10/527-148-13 | 120118JST13/120207JST10 |
| 120209-642 | 5,720 | PR1602 | 527-121-10/527-148-13 | 120118JST13/120207JST10 |
| 120215-643 | 5,262 | PR1605 | 527-121-10/527-153-22 | 120118JST13/120214JST13 |
| 120217-644 | 5,408 | PR1606 | 527-121-10/527-153-22 | 120118JST13/120214JST13 |
| 120222-645 | 5,690 | PR1628 | 527-121-10/527-161-8 | 120118JST13/120221JST13 |
| 120222-646 | 5,685 | PR1629 | 527-121-12/527-161-4 | 120118JST13/120221JST12 |
| 120223-647 | 5,833 | PR1632 | 527-121-10/527-161-27 | 120118JST13/120222JST10 |
| 120221-648 | 5,022 | PR1623 | 527-121-10/527-159-13 | 120118JST13/120220JST10 |
| 120224-649 | 5,259 | PR1636 | 527-121-10/527-159-13 | 120118JST13/120220JST10 |
| 120223-650 | 5,625 | PR1634 | 527-121-10/527-163-5 | 120118JST13/120223JST31 |
| 120301-651 | 5,897 | PR1652 | 527-121-10/527-169-3 | 120118JST13/120229JST12 |
| 120302-652 | 5,448 | PR1653 | 527-121-10/527-169-3 | 120118JST13/120229JST12 |
| 120303-653 | 5,646 | PR1654 | 527-121-10/527-171-9 | 120118JST13/120302JST13 |
| 120309-654 | 5,596 | PR1655 | 527-121-10/527-175-20 | 120118JST13/120306JST10 |
| 120310-655 | 5,277 | PR1664 | 527-121-10/527-175-24 | 120118JST13/120306JST12 |
| 120312-656 | 5,571 | PR1665 | 527-164-11/527-179-20 | 120224JST12/120309JST31 |
| 120314-657 | 6,146 | PR1670 | 527-164-11/527-185-11 | 120224JST12/120312JST12 |
| 120314-658 | 5,911 | PR1672 | 527-164-11/527-186-15 | 120224JST12/120314JST13 |
| 120315-659 | 6,134 | PR1674 | 527-164-11/527-185-6 | 120224JST12/120313JST10 |
| 120315-660 | 5,776 | PR1675 | 527-164-11/527-186-15 | 120224JST12/120314JST13 |
| 120322-661 | 6,071 | PR1695 | 527-164-11/527-189-23 | 120224JST12/120316JST12 |
| 120321-662 | 5,811 | PR1692 | 527-164-11/527-189-19 | 120224JST12/120316JST10 |
| 120321-663 | 6,222 | PR1689 | 527-164-11/527-189-19 | 120224JST12/120316JST10 |
| 120327-664 | 6,225 | PR1702 | 527-164-11/527-195-15 | 120224JST12/120321JST13 |
| 120327-665 | 6,357 | PR1703 | 527-164-11/527-197-16 | 120224JST12/120323JST10 |
| 120329-666 | 6,741 | PR1705 | 527-164-11/527-197-16 | 120224JST12/120323JST10 |
| 120330-667 | 6,371 | PR1706 | 527-164-11/527-205-8 | 120224JST12/120329JST13 |
| 120330-668 | 6,410 | PR1707 | 527-164-11/527-203-5 | 120224JST12/120328JST12 |
| 120403-669 | 6,297 | PR1708 | 527-164-11/527-203-5 | 120224JST12/120328JST12 |
| 120403-670 | 6,410 | PR1709 | 527-164-11/530-1-19 | 120224JST12/120402JST10A |
| 120406-671 | 6,236 | PR1712 | 527-164-11/530-2-16 | 120224JST12/120403JST13 |
| 120411-672 | 5,858 | PR1721 | 527-164-11/530-8-27 | 120224JST12/120409JST13T12 |
| 120412-673 | 6,134 | PR1722 | 527-164-11/530-12-19 | 120224JST12/120412JST10 |
| 120413-674 | 6,550 | PR1723 | 527-164-11/530-13-6 | 120224JST12/120412JST13T12 |
| 120417-675 | 6,390 | PR1724 | 527-164-11/530-18-4 | 120224JST12/120416JST10T12 |
| 120419-676 | 5,127 | PR1728 | 530-1-16/530-21-1 | 120402JST10/120418JST10 |
| 120421-677 | 5,959 | PR1730 | 530-1-16/530-23-13 | 120402JST10/120420JST13 |
| 120421-678 | 5,930 | PR1731 | 530-1-16/530-23-13 | 120402JST10/120420JST13 |
| 120425-679 | 6,148 | PR1731 | 530-1-16/530-27-7 | 120402JST10/120424JST10 |
| 120427-680 | 6,287 | PR1733 | 530-1-16/530-28-11 | 120402JST10/120425JST13 |
| 120428-681 | 5,551 | PR1739 | 530-1-16/530-29-9 | 120402JST10/120426JST33 |
| 120428-682 | 4,874 | PR1740 | 530-1-16/530-29-9 | 120402JST10/120426JST33 |
| 120501-683 | 6,348 | PR1746 | 530-1-16/530-33-24 | 120402JST10/120430JST10 |



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**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 120501-684 | 5,772 | PR1747 | 530-1-16/530-34-14 | 120402JST10/120430JST13 |
| 120501-685 | 6,116 | PR1748 | 530-1-16/530-34-14 | 120402JST10/120430JST13 |
| 120502-686 | 5,962 | PR1749 | 530-1-16/530-33-24 | 120402JST10/120430JST10 |
| 120503-687 | 5,807 | PR1750 | 530-1-16/530-36-25 | 120402JST10/120502JST33 |
| 120504-688 | 6,337 | PR1753 | 530-1-16/530-38-11 | 120402JST10/120503JST10 |
| 120505-689 | 5,541 | PR1757 | 530-1-16/530-38-11 | 120402JST10/120503JST10 |
| 120508-690 | 6,297 | PR1767 | 530-1-16/530-42-19 | 120402JST10/120502JST13 |
| 120509-691 | 6,308 | PR1770 | 530-1-16/530-42-19 | 120402JST10/120507JST13 |
| 120510-692 | 5,847 | PR1774 | 530-1-16/530-43-13 | 120402JST10/120508JST10 |
| 120511-693 | 6,108 | PR1775 | 530-1-16/530-46-16 | 120402JST10/120510JST12 |
| 120515-694 | 6,188 | PR1794 | 530-1-16/530-51-22 | 120402JST10/120514JST13 |
| 120516-695 | 6,548 | PR1802 | 530-38-2/530-51-18 | 120503JST13/120514JST10 |
| 120517-696 | 5,939 | PR1808 | 530-1-16/530-51-18 | 120402JST10/120514JST10 |
| 120517-697 | 6,429 | PR1810 | 530-38-2/530-53-2 | 120503JST13/120515JST12 |
| 120519-698 | 5,939 | PR1810 | 530-38-2/530-55-22 | 120503JST13/120517JST13 |
| 120521-699 | 5,251 | PR1813 | 530-38-2/530-55-22 | 120503JST13/120517JST13 |
| 120521-700 | 6,363 | PR1814 | 530-38-2/530-60-20 | 120503JST13/120521JST10 |
| 120523-701 | 6,488 | PR1815 | 530-38-2/530-62-1 | 120503JST13/120522JST12 |
| 120523-702 | 6,453 | PR1816 | 530-38-2/530-62-9 | 120503JST13/120522JST10 |
| 120524-703 | 5,849 | PR1817 | 530-38-2/530-62-9 | 120503JST13/120522JST10 |
| 120529-704 | 6,192 | PR1819 | 530-38-2/530-71-26 | 120503JST13/120528JST13 |
| 120529-705 | 6,119 | PR1820 | 530-38-2/530-71-26 | 120503JST13/120528JST13 |
| 120530-706 | 6,032 | PR1824 | 530-38-2/530-73-2 | 120503JST13/120529JST10 |
| 120607-707 | 6,540 | PR1840 | 530-38-2/NA | 120503JST13/120531JST13 |
| 120607-708 | 6,363 | PR1841 | 530-38-2/530-80-9 | 120503JST13/120604JST13 |
| 120607-709 | 5,925 | PR1842 | 530-38-2/530-80-9 | 120503JST13/120604JST13 |
| 120608-710 | 6,053 | PR1843 | 530-38-2/530-80-4 | 120503JST13/120604JST10 |
| 120612-711 | 6,037 | PR1844 | 530-38-2/530-83-12 | 120503JST13/120607JST11 |
| 120613-712 | 6,230 | No Pr # | 530-38-2/530-88-14 | 120503JST13/120611JST12 |
| 120615-713 | 6,230 | PR1846 | 530-38-2/530-88-19 | 120503JST13/120611JST13 |
| 120615-714 | 6,192 | PR1847 | 530-38-2/530-88-19 | 120503JST13/120611JST13 |
| 120615-715 | 6,619 | PR1849 | 530-38-2/530-93-7 | 120503JST13/120614JST11 |
| 120618-716 | 6,124 | PR1850 | 530-89-10/530-91-27 | 120611JST11A/120613JST10 |
| 120620-717 | 6,091 | PR1851 | 530-89-01/530-94-13 | 120611JST11A/120615JST12 |
| 120621-718 | 5,506 | PR1853 | 530-89-10/530-96-26 | 120611JST11A/120618JST11 |
| 120622-719 | 5,779 | PR1854 | 530-89-10/530-98-8 | 120611JST11A/120619JST10 |
| 120623-720 | 5,896 | PR1860 | 530-89-10/530-101-14 | 120611JST11A/120622JST13 |
| 120623-721 | 5,454 | PR1861 | 530-89-10/530-98-8 | 120611JST11A/120619JST10 |
| 120630-722 | 5,262 | PR1867 | 530-89-10/530-110-20 | 120611JST11A/120627JST10 |
| 120630-723 | 5,077 | PR1866 | 530-89-10/530-108-9 | 120611JST11A/120626JST12 |
| 120629-724 | 5,709 | PR1864 | 530-89-10/530-110-15 | 120611JST11A/120627JST13 |
| 120629-726 | 5,719 | PR1865 | 530-89-10/530-108-9 | 120611JST11A/120626JST12 |
| 120707-727 | 5,621 | PR1897 | 530-89-10/530-121-17 | 120611JST11A/120706JST13 |
| 120707-728 | 5,624 | PR1890 | 530-89-10/530-121-17 | 120611JST11A/120706JST13 |
| 120710-729 | 4,115 | PR1897 | 530-89-10/530-121-26 | 120611JST11A/120706JST32 |
| 120710-730 | 4,340 | PR1894 | 530-89-10/530-121-26 | 120611JST11A/120706JST32 |
| 120712-731 | 5,636 | PR1903 | 530-89-10/530-127-22 | 120611JST11A/120710JST13 |
| 120712-732 | 5,564 | PR1906 | 530-89-10/530-125-20 | 120611JST11A/120709JST10 |
| 120712-733 | 5,909 | PR1908 | 530-89-10/530-131-1 | 120611JST11A/120712JST32 |
| 120713-734 | 5,824 | PR1909 | 530-89-10/530-129-16 | 120611JST11A/120711JST12 |
| 120713-735 | 5,826 | PR1910 | 530-89-10/530-129-16 | 120611JST11A/120711JST12 |
| 120711-736 | 5,974 | PR1898 | 530-89-10/530-125-20 | 120611JST11A/120709JST10 |
| 120718-737 | 6,000 | PR1925 | 530-128-1/530-135-1 | 120710JST12/120716JST10 |
| 120718-738 | 5,707 | No Pr # | 530-128-1/530-135-5 | 120710JST12/120716JST13 |
| 120720-744 | 5,386 | PR1927 | 530-128-1/530-138-21 | 120710JST12/120719JST12 |
| 120720-745 | 5,665 | PR1929 | 530-128-1/530-135-1 | 120710JST12/120716JST10 |
| 120721-746 | 5,373 | PR1930 | 530-128-1/530-135-1 | 120710JST12/120716JST10 |
| 120724-747 | 5,610 | PR1931 | 530-128-1/530-145-4 | 120710JST12/120723JST13 |
| 120727-748 | 5,975 | PR1933 | 530-128-1/530-150-1 | 120710JST12/120726JST12 |
| 120728-749 | 5,383 | PR1934 | 530-128-1/530-150-5 | 120710JST12/120726JST13 |
| 120728-750 | 5,326 | PR1935 | 530-128-1/530-150-1 | 120710JST12/120726JST12 |
| 120726-751 | 5,960 | PR1932 | 530-128-1/530-144-28 | 120710JST12/120723JST10 |
| 120731-752 | 5,905 | PR1937 | 530-128-1/530-155-12 | 120710JST12/120730JST10 |
| 120801-754 | 5,605 | PR1939 | 530-128-1/530-156-26 | 120710JST12/120731JST13 |



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**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 120801-755 | 5,879 | PR1940 | 530-128-1/530-155-16 | 120710JST12/120730JST12 |
| 120801-757 | 5,644 | PR1950 | 530-128-1/530-160-4 | 120710JST12/120802JST10 |
| 120805-758 | 5,900 | PR1953 | 530-128-1/530-161-12 | 120710JST12/120803JST11 |
| 120807-759 | 6,267 | PR1954 | 530-128-1/530-161-16 | 120710JST12/120803JST13 |
| 120808-760 | 6,134 | PR1955 | 530-128-1/530-161-20 | 120710JST12/120803JST12 |
| 120808-761 | 5,754 | PR1956 | 530-128-1/530-167-27 | 120807JST11/120710JST12 |
| 120810-762 | 5,908 | PR1957 | 530-128-1/530-167-23 | 120710JST12/120807JST10 |
| 120810-763 | 5,636 | PR1958 | 530-128-1/530-171-13 | 120710JST12/120809JST13 |
| 120811-764 | 5,855 | PR1959 | 530-161-25/530-171-17 | 120801JST12/120809JST12 |
| 120813-765 | 5,746 | PR1962 | 530-161-25/530-171-13 | 120801JST12/120809JST13 |
| 120814-766 | 5,357 | PR1966 | 530-161-25/530-178-7 | 120801JST12/120813JST13 |
| 120815-767 | 5,394 | PR1967 | 530-161-25/530-178-19 | 120801JST12/120813JST33 |
| 120815-768 | 5,668 | PR1973 | 530-161-25/530-178-15 | 120801JST12/120813JST10 |
| 120816-769 | 5,951 | PR1974 | 530-161-25/530-178-11 | 120801JST12/120813JST11 |
| 120817-770 | 5,479 | PR1978 | 530-161-25/530-178-11 | 120801JST12/120813JST11 |
| 120817-771 | 5,570 | PR1979 | 530-161-25/530-182-12 | 120801JST12/120816MHT12 |
| 120820-772 | 5,594 | PR1989 | 530-161-25/530-182-12 | 120801JST12/120816MHT12 |
| 120821-773 | 5,186 | PR1993 | 530-161-25/530-189-9 | 120801JST12/120820JST11 |
| 120822-774 | 5,652 | PR1998 | 530-161-25/530-189-5 | 120801JST12/120820JST10 |
| 120824-775 | 5,660 | PR2014 | 530-161-25/530-189-14 | 120801JST12/120820JST13 |
| 120831-776 | 5,722 | PR2018 | 530-161-25/530-194-16 | 120801JST12/120823JST12 |
| 120831-777 | 5,751 | PR2019 | 530-161-25/530-203-20 | 120801JST12/120831JST11 |
| 120905-778 | 5,738 | PR2024 | 530-161-25/530-208-18 | 120801JST12/120904JST13 |
| 120907-779 | 6,001 | PR2037 | 530-161-25/530-208-27 | 120801JST12/120904JST10 |
| 120908-780 | 6,012 | PR2038 | 530-161-25/530-208-23 | 120904JST11/120801JST12 |
| 120911-781 | 5,860 | PR2039 | 530-161-25/532-8-22 | 120801JST12/120910JST13 |
| 120913-782 | 5,215 | PR2043 | 530-161-25/532-8-18 | 120801JST12/120910JST12 |
| 120913-783 | 2,081 | PR2044 | 530-161-25/532-8-14 | 120801JST12/120910JST11 |
| 120915-784 | 5,887 | PR2045 | 530-194-16/532-8-11 | 120823JST12/120910JST10 |
| 120915-785 | 5,652 | PR2047 | 530-194-16/532-13-13 | 120823JST12/120914JST13 |
| 120917-786 | 5,588 | PR2051 | 530-194-16/532-8-14 | 120823JST12/120910JST11 |
| 120921-787 | 6,103 | PR2061 | 530-194-16/532-16-5 | 120823JST12/120917JST12 |
| 120921-788 | 5,373 | PR2062 | 530-194-16/532-20-15 | 120823JST12/120920JST13 |
| 120922-789 | 5,738 | PR2066 | 530-194-16/532-20-11 | 120823JST12/120920JST10 |
| 120922-790 | 5,607 | PR2068 | 530-194-16/532-22-18 | 120823JST12/120921JST11 |
| 120922-791 | 5,778 | PR2069 | 530-194-16/532-20-15 | 120823JST12/120920JST13 |
| 120925-792 | 5,866 | PR2080 | 530-194-16/532-27-27 | 120823JST12/120925JST12 |
| 120926-793 | 5,442 | PR2088 | 530-194-16/532-27-19 | 120823JST12/120925JST10 |
| 120926-794 | 5,703 | PR2089 | 530-194-16/532-27-23 | 120823JST12/120925JST11 |
| 120927-795 | 5,724 | PR2093 | 530-194-16/532-30-13 | 120823JST12/120927JST13 |
| 120928-796 | 6,162 | PR2097 | 530-194-16/532-30-18 | 120823JST12/120927JST31 |
| 120929-797 | 6,316 | PR2099 | 530-194-16/532-32-15 | 120823JST12/120928JST12 |
| 121006-798 | 5,708 | PR2107 | 532-33-2/532-38-26 | 120928JST12A/121002JST10 |
| 121009-799 | 5,895 | PR2120 | 530-194-16/532-50-17 | 120823JST12/121009JST11 |
| 121013-800 | 5,879 | PR2121 | 530-194-16/532-57-12 | 120823JST12/121012JST12 |
| 121012-801 | 5,442 | PR2122 | 530-194-15/532-50-12 | 120823JST12/121009JST10 |
| 121016-802 | 4,895 | PR2129 | 530-194-16/532-65-2 | 120823JST12/121016JST11 |
| 121019-803 | 2,790 | PR2145 | 532-33-2/532-70-27 | 120928JST12A/121019JST13 |
| 121019-804 | 2,915 | PR2146 | 532-33-2/532-70-27 | 120928JST12A/121019JST13 |
| 121025-805 | 5,930 | No Pr # | 532-33-2/532-82-2 | 120928JST12A/121025JST10T13 |
| 121026-806 | 5,759 | PR2175 | 532-33-2/532-82-2 | 120928JST12A/121025JST10T13 |
| 121027-807 | 5,924 | PR2178 | 532-33-2/532-83-26 | 120928JST12A/121026JST10T11 |
| 121027-808 | 5,714 | PR2181 | 532-33-2/532-83-26 | 120928JST12A/121026JST10T11 |
| 121031-809 | 6,151 | PR2186 | 532-33-2/532-89-27 | 120928JST12A/121031JST10T11 |
| 121101-810 | 6,505 | PR2187 | 532-33-2/532-89-27 | 120928JST12A/121031JST10T11 |
| 121101-811 | 5,919 | PR2188 | 532-33-2/532-89-27 | 120928JST12A/121031JST10T11 |
| 121104-812 | 5,985 | PR2189 | 532-33-2/532-93-12 | 120928JST12A/121102JST10T33 |
| 121102-813 | 2,998 | PR2191 | 532-33-2/532-93-12 | 120928JST12A/121102JST10T33 |
| 121103-814 | 6,135 | PR2193 | 532-33-2/532-94-20 | 120928JST12A/121102JST10T13 |
| 121103-815 | 6,132 | PR2192 | 532-33-2/532-94-20 | 120928JST12A/121102JST10T13 |
| 121104-816 | 5,970 | PR2194 | 532-33-2/532-93-8 | 120928JST12A/121102JST11 |
| 121104-817 | 5,954 | PR2195 | 532-33-2/532-93-8 | 120928JST12A/121102JST11 |
| 121105-818 | 6,401 | PR2196 | 532-33-2/532-99-16 | 120928JST12A/121105JST12T13 |
| 121105-819 | 6,060 | PR2197 | 532-33-2/532-99-4 | 120928JST12A/121105JST10T11 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 121106-820 | 6,033 | PR2199 | 532-33-2/532-99-4 | 120928JST12A/121105JST10T11 |
| 121106-821 | 6,137 | PR2200 | 532-33-2/532-99-4 | 120928JST12A/121105JST10T11 |
| 121107-822 | 5,946 | PR2201 | 532-33-2/532-102-24 | 120928JST12A/121107JST10T11 |
| 121114-823 | 5,890 | PR2209 | 532-99-8/532-112-19 | 121105JST12/121114MHT10T12 |
| 121114-824 | 5,871 | PR2208 | 532-99-8/532-112-19 | 121105JST12/121114MHT10T12 |
| 121115-825 | 6,312 | PR2213 | 532-99-8/532-112-19 | 121105JST12/121114MHT10T13 |
| 121115-826 | 5,508 | PR2214 | 532-99-8/532-112-19 | 121105JST12/121114MHT10T13 |
| 121116-827 | 5,800 | PR2217 | 532-99-8/532-112-19 | 121105JST12/121114MHT10T13 |
| 121116-828 | 6,132 | PR2221 | 532-99-8/532-112-19 | 121105JST12/121114MHT10T12 |
| 121117-829 | 5,759 | PR2226 | 532-99-8/532-112-19 | 121105JST12/121114MHT10T12 |
| 121119-830 | 6,340 | PR2227 | 532-99-8/532-120-15 | 121105JST12/121119JST10T11 |
| 121119-831 | 6,013 | PR2229 | 532-99-8/532-120-20 | 121105JST12/121119JST10T12 |
| 121121-832 | 6,152 | PR2233 | 532-99-8/532-123-24 | 121105JST12/121121JST10T11 |
| 121126-833 | 5,754 | PR2236 | 532-99-8/532-130-5 | 121105JST12/121126JST10T12 |
| 121126-834 | 5,962 | PR2237 | 532-99-8/532-130-5 | 121105JST12/121126JST10T12 |
| 121127-835 | 5,375 | PR2238 | 532-99-8/532-130-9 | 121105JST12/121126JST11T13 |
| 121127-836 | 6,017 | PR2239 | 532-99-8/532-130-9 | 121105JST12/121126JST11T13 |
| 121130-837 | 5,996 | PR2241 | 532-99-8/532-134-5 | 121105JST12/121129JST12T11 |
| 121201-838 | 5,887 | PR2242 | 532-99-8/532-134-5 | 121105JST12/121129JST12T11 |
| 121203-839 | 6,231 | PR2243 | 532-99-8/532-135-12 | 121105JST12/121130JST10T12 |
| 121204-840 | 6,154 | PR2247 | 532-99-8/532-135-12 | 121105JST12/121130JST10T12 |
| 121205-841 | 6,250 | PR2251 | 532-99-8/532-135-12 | 121105JST12/121130JST10T12 |
| 121205-842 | 6,359 | PR2253 | 532-99-8/532-139-12 | 121105JST12/121204MHT10T13 |
| 121206-843 | 6,152 | PR2254 | 532-130-16/532-139-12 | 121126JST11/121204MHT10T13 |
| 121206-844 | 5,799 | PR2258 | 532-130-16/532-139-12 | 121126JST11/121204MHT10T13 |
| 121207-845 | 5,578 | PR2260 | 532-130-16/532-140-19 | 121126JST11/121206MHT12 |
| 121206-846 | 5,552 | PR2261 | 532-130-16/532-140-19 | 121126JST11/121206MHT12 |
| 121208-847 | 5,748 | PR2265 | 532-130-16/532-140-19 | 121126JST11/121206MHT12 |
| 121211-848 | 5,406 | PR2276 | 532-130-16/532-146-4 | 121126JST11/121211JST10T12T13 |
| 121211-849 | 6,293 | PR2278 | 532-130-16/532-146-4 | 121126JST11/121211JST10T12T13 |
| 121213-850 | 6,479 | PR2281 | 532-130-16/532-146-4 | 121126JST11/121211JST10T12T13 |
| 121213-851 | 5,985 | PR2283 | 532-130-16/532-149-7 | 121126JST11/121213JST10T12T13 |
| 121217-852 | 6,101 | PR2291 | 532-130-16/532-149-7 | 121126JST11/121213JST10T12T13 |
| 121218-853 | 6,258 | PR2295 | 532-130-16/532-149-7 | 121126JST11/121213JST10T12T13 |
| 121219-854 | 6,277 | PR2296 | 532-130-16/532-156-19 | 121126JST11/121912MHT33T10T11 |
| 121220-855 | 5,713 | PR2297 | 532-130-16/532-156-19 | 121126JST11/121912MHT33T10T11 |
| 121220-856 | 6,126 | PR2298 | 532-130-16/532-156-19 | 121126JST11/121912MHT33T10T11 |
| 121220-857 | 6,004 | PR2299 | 532-130-16/532-155-17 | 121126JST11/121218JST12 |
| 121221-858 | 6,010 | PR2300 | 532-130-16/532-159-21 | 121126JST11/121221JST10T13 |
| 121221-859 | 6,322 | No Pr # | 532-130-16/532-159-21 | 121126JST11/121221JST10T13 |
| 121226-860 | 6,000 | PR2303 | 532-130-16/532-163-10 | 121126JST11/121226JST10T13 |
| 121226-861 | 6,096 | PR2304 | 532-130-16/532-163-10 | 121126JST11/121226JST10T13 |
| 121228-862 | 6,101 | PR2305 | 532-130-16/532-164-18 | 121126JST11/121227JST10T11 |
| 121228-863 | 5,813 | PR2306 | 532-130-16/532-164-18 | 121126JST11/121227JST10T11 |
| 121229-864 | 5,759 | PR2307 | 532-130-16/532-164-18 | 121126JST11/121227JST10T11 |
| 121231-865 | 5,894 | PR2308 | 532-159-14/532-169-19 | 121221JST13/121231JST10T11T12 |
| 121231-866 | 5,372 | PR2312 | 532-159-14/532-169-19 | 121221JST13/121231JST10T11T12 |
| 130103-867 | 5,838 | PR2313 | 532-159-14/532-169-19 | 121221JST13/121231JST10T11T12 |
| 130103-868 | 6,138 | PR2317 | 532-159-14/532-172-25 | 121221JST13/130103MHT10 |
| 130104-869 | 6,094 | PR2318 | 532-159-14/532-169-19 | 121221JST13/121231JST10T11T12 |
| 130105-870 | 5,977 | PR2325 | 532-159-14/532-172-25 | 121221JST13/130103MHT10 |
| 130107-871 | 6,171 | PR2324 | 532-159-14/532-179-14 | 121221JST13/130107JST10T11 |
| 130109-872 | 6,217 | PR2329 | 532-159-14/532-179-14 | 121221JST13/130107JST10T11 |
| 130110-873 | 6,078 | PR2332 | 532-159-14/532-179-14 | 121221JST13/130107JST10T11 |
| 130112-874 | 6,304 | PR2342 | 532-159-14/532-184-16 | 121221JST13/130111JST10T11 |
| 130112-875 | 6,438 | PR2341 | 532-159-14/532-184-16 | 121221JST13/130111JST10T11 |
| 130116-876 | 6,124 | PR2358 | 532-159-14/532-192-16 | 121221JST13/130116JST11 |
| 130119-877 | 5,863 | PR2359 | 532-159-14/532-192-16 | 121221JST13/130116JST11 |
| 130121-878 | 5,604 | PR2360 | 532-159-14/532-200-16 | 121221JST13/130121JST10T11T12 |
| 130123-879 | 6,051 | PR2362 | 532-159-14/532-200-16 | 121221JST13/130121JST10T11T12 |
| 130122-880 | 5,958 | PR2361 | 532-159-14/532-200-16 | 121221JST13/130121JST10T11T12 |
| 130126-881 | 5,871 | PR2364 | 532-159-14/532-200-16 | 121221JST13/130121JST10T11T12 |
| 130126-882 | 5,835 | PR2365 | 532-159-14/532-204-27 | 121221JST13/130124JST11 |
| 130126-883 | 5,724 | PR2366 | 532-159-14/532-204-27 | 121221JST13/130124JST11 |



ED_002427A_00000247-00005

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 130127-884 | 5,833 | PR2367 | 532-159-14/532-207-14 | 121221JST13/130125MHT32T33 |
| 130129-887 | 6,225 | PR2368 | 532-191-16/533-5-25 | 130115JST11/130129JST11T12T10 |
| 130129-888 | 6,018 | PR2369 | 532-191-16/533-6-2 | 130115JST11/130129JST33T32 |
| 130130-889 | 6,152 | PR2371 | 532-191-16/533-6-2 | 130115JST11/130129JST33T32 |
| 130130-890 | 5,929 | PR2372 | 532-191-16/533-5-25 | 130115JST11/130129JST11T12T10 |
| 130130-891 | 6,203 | PR2373 | 532-191-16/533-5-25 | 130115JST11/130129JST11T12T10 |
| 130131-892 | 6,278 | PR2375 | 532-191-16/533-10-4 | 130115JST11/130201JST11T10 |
| 130131-893 | 6,099 | PR2376 | 532-191-16/533-9-27 | 130115JST11/130131JST32T10 |
| 130201-894 | 6,412 | PR2377 | 532-191-16/533-10-4 | 130115JST11/130131JST11T10 |
| 130202-895 | 5,826 | PR2378 | 532-191-16/533-10-4 | 130115JST11/130131JST11T10 |
| 130202-896 | 6,230 | PR2379 | 532-191-16/533-12-1 | 130115JST11/130201JST10T11 |
| 130202-897 | 6,454 | PR2380 | 532-191-16/533-16-14 | 130115JST11/130204JST10T11T12 |
| 130202-898 | 6,278 | PR2381 | 532-191-16/533-16-14 | 130115JST11/130204JST10T11T12 |
| 130205-899 | 6,292 | PR2384 | 532-191-16/533-18-2 | 130115JST11/130205JST11 |
| 130209-901 | 6,141 | PR2389 | 532-191-16/533-20-9 | 130115JST11/130206JST11 |
| 130209-902 | 6,027 | PR2390 | 532-191-16/533-20-9 | 130115JST11/130206JST11 |
| 130211-903 | 5,751 | PR2395 | 532-191-16/533-29-22 | 130115JST11/130211JST12T33 |
| 130213-904 | 6,208 | PR2404 | 532-191-16/533-16-14 | 130115JST11/130204JST10T11T12 |
| 130214-905 | 6,010 | PR2408 | 532-191-16/533-30-2 | 130115JST11/130211JST11 |
| 130215-906 | 5,974 | PR2411 | 532-191-16/533-35-16 | 130115JST11/130214JST33T12 |
| 130215-907 | 6,172 | PR2413 | 532-191-16/533-35-16 | 130115JST11/130214JST33T12 |
| 130216-908 | 5,816 | PR2414 | 533-16-19/533-30-2 | 130204JST11/130211JST11 |
| 130216-909 | 5,958 | PR2415 | 533-16-19/533-36-20 | 130204JST11/130215JST11T32 |
| 130216-910 | 6,053 | PR2418 | 533-16-19/533-34-24 | 1300204JST11/130214JST10T12 |
| 130216-911 | 5,830 | PR2416 | 533-16-19/533-36-20 | 1302004JST11/130214JST11T32 |
| 130216-912 | 6,021 | PR2417 | 533-16-19/533-34-24 | 130204JST11/130214JST10T12 |
| 130219-913 | 6,021 | PR2427 | 533-16-19/533-41-13 | 130204JST11/130218JST33 |
| 130221-914 | 6,018 | PR2436 | 533-16-19/533-41-13 | 130204JST11/130218JST33 |
| 130221-915 | 5,920 | PR2437 | 533-16-19/533-45-4 | 130204JST11/130220JST32 |
| 130222-916 | 5,912 | PR2443 | 533-16-19/533-48-9 | 130204JST11/130222JST31 |
| 130223-917 | 6,081 | PR2444 | 533-16-19/533-48-9 | 130204JST11/130222JST31 |
| 130223-918 | 5,661 | PR2445 | 533-16-19/533-48-5 | 130204JST11/130222JST32 |
| 130227-919 | 5,963 | PR2447 | 533-16-19/533-54-6 | 130204JST11/130226JST32 |
| 130228-920 | 5,925 | PR2449 | 533-16-19/533-54-6 | 130204JST11/130226JST32 |
| 130309-921 | 6,157 | PR2451 | 533-16-19/533-68-8 | 130204JST11/130308JST17 |
| 130309-922 | 6,152 | PR2452 | 533-16-19/533-68-8 | 130204JST11/130308JST17 |
| 130309-923 | 6,277 | PR2453 | 533-16-19/533-65-10 | 130204JST11/130306JST17T16 |
| 130313-924 | 6,048 | PR2462 | 533-16-19/533-71-28 | 130204JST11/130311JST33 |
| 130313-925 | 5,865 | PR2463 | 533-16-19/533-71-28 | 130204JST11/130311JST33 |
| 130314-926 | 6,149 | PR2464 | 533-16-19/533-73-28 | 130204JST11/130312JST17 |
| 130314-927 | 6,244 | PR2465 | 533-16-19/533-73-28 | 130204JST11/130312JST17 |
| 130315-928 | 6,203 | PR2467 | 533-55-13/533-73-28 | 130227JST17/130312JST17 |
| 130315-929 | 6,167 | PR2468 | 533-55-13/533-73-28 | 130227JST17/130312JST17 |
| 130316-930 | 6,255 | PR2472 | 533-55-13/533-73-28 | 130227JST17/130312JST17 |
| 130318-931 | 6,203 | PR2473 | 533-55-13/533-78-28 | 130227JST17/130315JST33 |
| 130318-932 | 6,140 | PR2474 | 533-55-13/533-85-8 | 130227JST17/130318JST32 |
| 130319-933 | 6,104 | PR2471 | 533-55-13/533-85-4 | 130227JST17/130318JST17 |
| 130319-934 | 6,140 | PR2475 | 533-55-13/533-85-4 | 130227JST17/130318JST17 |
| 130320-935 | 6,214 | PR2476 | 533-55-13/533-85-4 | 130227JST17/130318JST17 |
| 130322-937 | 6,026 | PR2478 | 533-55-13/533-89-18 | 130227JST17/130320JST17 |
| 130321-936 | 6,487 | PR2477 | 533-55-13/533-89-18 | 130227JST17/130320JST17 |
| 130325-938 | 5,776 | PR2479 | 533-55-13/533-96-12 | 130227JST17/130325JST33 |
| 130402-939 | 5,635 | PR2487 | 533-55-13/533-105-15 | 130227JST17/130401JST32 |
| 130402-940 | 5,850 | PR2488 | 533-55-13/533-105-15 | 130227JST17/130401JST32 |
| 130405-941 | 5,547 | PR2492 | 533-55-13/533-111-22 | 130227JST17/130405JST33 |
| 130405-942 | 5,676 | PR2493 | 533-55-13/533-111-22 | 130227JST17/130405JST33 |
| 130406-943 | 5,996 | PT2494 | 533-55-13/533-105-10 | 130227JST17/130401JST31 |
| 130406-944 | 6,175 | PR2495 | 533-55-13/533-105-10 | 130227JST17/130401JST31 |
| 130409-945 | 6,429 | PR2496 | 533-55-13/533-105-5 | 130227JST17/130401JST17 |
| 130410-946 | 6,073 | PR2497 | 533-55-13/533-105-5 | 130227JST17/130401JST17 |
| 130410-947 | 6,214 | PR2498 | 533-55-13/533-105-5 | 130227JST17/130401JST17 |
| 130411-948 | 6,201 | PR2500 | 533-110-1/533-105-5 | 130404JST17/130401JST17 |
| 130411-949 | 5,967 | PR2499 | 533-110-1/533-105-5 | 130404JST17/130401JST17 |
| 130412-950 | 5,918 | PR2502 | 533-110-1/533-116-4/533-115-26 | 130404JST17/130408JST32/130408JST33 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 130412-951 | 5,918 | PR2503 | 533-110-1/533-116-4/533-115-26 | 130404JST17/130408JST32/130408JST33 |
| 130415-952 | 6,182 | PR2507 | 533-110-1/533-116-4/533-115-26 | 130404JST17/130408JST32/130408JST33 |
| 130415-953 | 5,843 | PR2506 | 533-110-1/533-116-4/533-115-26 | 130404JST17/130408JST32/130408JST33 |
| 130423-954 | 6,042 | PR2509 | 533-110-1/533-139-4 | 130404JST17/130422JST17 |
| 130424-955 | 6,231 | PR2510 | 533-110-1/533-139-4 | 130404JST17/130422JST17 |
| 130426-956 | 6,061 | PR2511 | 533-110-1/533-139-4 | 130404JST17/130422JST17 |
| 130426-957 | 5,438 | PR2515 | 533-110-1/533-139-4 | 130404JST17/130422JST17 |
| 130426-958 | 6,045 | PR2513 | 533-110-1/533-139-4 | 130404JST17/130422JST17 |
| 130426-959 | 6,214 | PR2514 | 533-110-1/533-141-25 | 130404JST17/130424MHT16 |
| 130429-960 | 5,950 | PR2516 | 533-110-1/533-141-25 | 130404JST17/130424MHT16 |
| 130430-961 | 6,126 | No Pr # | 533-110-1/533-141-25 | 130404JST17/130424MHT16 |
| 130501-962 | 6,029 | PR2526 | 533-110-1/533-141-25 | 130404JST17/130424MHT16 |
| 130502-963 | 6,061 | PR2536 | 533-110-1/533-141-25 | 130404JST17/130424MHT16 |
| 130506-964 | 6,282 | PR2542 | 533-110-1/533-155-16 | 130404JST17/130503JST17 |
| 130507-965 | 6,260 | PR2543 | 533-110-1/533-155-16 | 130404JST17/130503JST17 |
| 130508-966 | 5,999 | PR2544 | 533-110-1/533-155-16 | 130404JST17/130503JST17 |
| 130509-967 | 6,169 | PR2545 | 533-110-1/533-155-16 | 130404JST17/130503JST17 |
| 130510-968 | 5,844 | No Pr # | 533-149-24/533-155-16 | 130429JST17/130503JST17 |
| 130514-969 | 5,666 | PR2547 | 533-149-24/533-168-26 | 130429JST17/130513JST16 |
| 130515-970 | 5,718 | PR2548 | 533-149-24/533-168-26 | 130429JST17/130513JST16 |
| 130516-971 | 5,883 | PR2549 | 533-149-24/533-168-26 | 130429JST17/130513JST16 |
| 130517-972 | 6,107 | PR2550 | 533-149-24/533-168-26 | 130429JST17/130513JST16 |
| 130518-973 | 5,919 | PR2551 | 533-149-24/533-168-26 | 130429JST17/130513JST16 |
| 130523-974 | 5,720 | PR2558 | 533-149-24/533-180-6 | 130429JST17/130522JST17 |
| 130524-975 | 5,516 | PR2559 | 533-149-24/533-183-15 | 130429JST17/130524JST16 |
| 130528-976 | 5,527 | PR2560 | 533-149-24/533-180-6 | 130429JST17/130522JST17 |
| 130528-977 | 5,599 | PR2561 | 533-149-24/533-183-15 | 130429JST17/130524JST16 |
| 130529-978 | 5,372 | PR2562 | 533-149-24/533-180-6 | 130429JST17/130522JST17 |
| 130606-979 | 5,610 | PR2567 | 533-149-24/533-198-4 | 130429JST17/130604JST16 |
| 130607-980 | 5,512 | PR2569 | 533-149-24/533-198-4 | 130429JST17/130604JST16 |
| 130614-981 | 5,585 | PR2571 | 533-149-24/533-198-4 | 130429JST17/130604JST16 |
| 130617-982 | 5,675 | PR2572 | 533-149-24/533-198-4 | 130429JST17/130604JST16 |
| 130618-983 | 5,721 | PR2573 | 533-149-24/533-198-4 | 130429JST17/130604JST16 |
| 130626-984 | 5,659 | PR2575 | 533-149-24/537-17-14 | 130429JST17/130624MH |
| 130626-985 | 5,371 | PR2576 | 533-149-24/537-17-14 | 130429JST17/130624MH |
| 130627-986 | 5,703 | PR2577 | 533-149-24/537-17-14 | 130429JST17/130624MH |
| 130627-987 | 5,537 | PR2578 | 533-149-24/537-17-14 | 130429JST17/130624MH |
| 130628-988 | 6,032 | PR2579 | 537-17-14/537-17-14 | 130624MH/130624MH |
| 130628-989 | 5,884 | PR2581 | 537-17-14/537-17-14 | 130624MH/130624MH |
| 130701-990 | 6,307 | PR2582 | 537-17-14/537-17-14 | 130624MH/130624MH |
| 130701-991 | 6,185 | PR2583 | 537-17-14/537-21-1 | 130624MH/130626JST16 |
| 130702-992 | 6,215 | PR2584 | 537-17-14/537-21-1 | 130624MH/130626JST16 |
| 130702-993 | 6,095 | PR2585 | 537-17-14/537-21-1 | 130624MH/130626JST16 |
| 130703-994 | 6,021 | PR2589 | 537-17-14/537-21-1 | 130624MH/130626JST16 |
| 130703-995 | 6,116 | PR2590 | 537-17-14/537-21-1 | 130624MH/130626JST16 |
| 130708-996 | 4,821 | PR2591 | 537-17-14/537-28-14 | 130624MH/130702JST36 |
| 130709-997 | 5,587 | PR2593 | 537-17-14/537-28-14 | 130624MH/130702JST36 |
| 130710-998 | 6,013 | PR2594 | 537-17-14/537-35-18 | 130624MH/130708JST17 |
| 130715-999 | 6,018 | PR2597 | 537-17-14/537-35-18 | 130624MH/130708JST17 |
| 130715-1000 | 5,993 | PR2598 | 537-17-14/537-35-18 | 130624MH/130708JST17 |
| 130717-1001 | 5,931 | PR2599 | 537-17-14/537-35-18 | 130624MH/130708JST17 |
| 130717-1002 | 5,985 | PR2600 | 537-17-14/537-35-18 | 130624MH/130708JST17 |
| 130718-1003 | 6,023 | PR2607 | 537-17-14/537-46-5 | 130624MH/130716JST16 |
| 130719-1004 | 5,974 | PR2609 | 537-17-14/537-46-5 | 130624MH/130716JST16 |
| 130722-1005 | 5,974 | PR2611 | 537-17-14/537-46-5 | 130624MH/130716JST16 |
| 130723-1006 | 6,040 | PR2612 | 537-17-14/537-46-5 | 130624MH/130716JST16 |
| 130724-1007 | 5,841 | PR2613 | 537-17-14/537-46-5 | 130624MH/130716JST16 |
| 130725-1008 | 6,023 | PR2614 | 537-54-15/537-54-8 | 130722JST35/130722JST17 |
| 130725-1009 | 5,871 | PR2615 | 537-54-15/537-54-8 | 130722JST35/130722JST17 |
| 130726-1010 | 5,767 | PR2616 | 537-54-15 | 130722JST35 |
| 130726-1011 | 5,727 | PR2617 | 537-54-15/537-54-8 | 130722JST35/130722JST17 |
| 130729-1012 | 5,820 | PR2618 | 537-54-15/537-54-8 | 130722JST35/130722JST17 |
| 130730-1013 | 5,980 | PR2620 | 537-54-15/537-54-8 | 130722JST35/130722JST17 |
| 130731-1014 | 5,414 | PR2622 | 537-54-15/537-63-28 | 130722JST35/130729JST36 |



ED_002427A_00000247-00007

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 130801-1015 | 5,736 | PR2623 | 537-54-15/537-63-28 | 130722JST35/130729JST36 |
| 130802-1016 | 5,754 | PR2624 | 537-54-15/537-63-28 | 130722JST35/130729JST36 |
| 130808-1017 | 5,707 | PR2627 | 537-54-15/537-68-11 | 130722JST35/130802JST16 |
| 130809-1018 | 5,770 | PR2629 | 537-54-15/537-68-11 | 130722JST35/130802JST16 |
| 130809-1019 | 5,688 | PR2630 | 537-54-15/537-68-11 | 130722JST35/130802JST16 |
| 130815-1020 | 5,907 | PR2631 | 537-54-15/537-79-27 | 130722JST35/130813JST17 |
| 130815-1021 | 6,041 | PR2632 | 537-54-15/537-79-27 | 130722JST35/130813JST17 |
| 130816-1022 | 5,986 | PR2635 | 537-54-15/537-79-27 | 130722JST35/130813JST17 |
| 130816-1023 | 6,059 | PR2636 | 537-54-15/537-68-11 | 130722JST35/130802JST16 |
| 130819-1024 | 6,036 | PR2638 | 537-54-15/537-79-27 | 130722JST35/130813JST17 |
| 130828-1025 | 5,670 | PR2643 | 537-54-15/537-94-11 | 130722JST35/130826JST16 |
| 130829-1026 | 5,602 | PR2647 | 537-54-15/537-94-11 | 130722JST35/130826JST16 |
| 130830-1027 | 5,628 | PR2650 | 537-54-15/537-94-11 | 130722JST35/130826JST16 |
| 130903-1028 | 5,641 | PR2651 | 537-88-14/537-104-9 | 130821JST16/130902JST17 |
| 130904-1029 | 5,664 | PR2652 | 537-88-14/537-104-9 | 130821JST16/130902JST17 |
| 130906-1030 | 5,573 | PR2653 | 537-88-14/537-104-9 | 130821JST16/130902JST17 |
| 130906-1031 | 5,529 | PR2654 | 537-88-14/537-104-9 | 130821JST16/130902JST17 |
| 130909-1032 | 5,182 | PR2655 | 537-88-14/537-114-8 | 130821JST16/130909JST10 |
| 130910-1033 | 5,432 | PR2656 | 537-88-14/537-114-8 | 130821JST16/130909JST10 |
| 130911-1034 | 5,609 | PR2657 | 537-88-14/537-104-9 | 130821JST16/130902JST17 |
| 130924-1035 | 5,870 | PR2667 | 537-88-14/537-134-16 | 130821JST16/130923MHT16 |
| 130924-1036 | 5,844 | PR2668 | 537-88-14/537-134-16 | 130821JST16/130923MHT16 |
| 130925-1037 | 5,805 | PR2672 | 537-88-14/537-134-16 | 130821JST16/130923MHT16 |
| 130927-1038 | 5,737 | PR2674 | 537-88-14/537-134-16 | 130821JST16/130923MHT16 |
| 130927-1039 | 5,609 | PR2675 | 537-88-14/537-134-16 | 130821JST16/130923MHT16 |
| 131001-1040 | 6,024 | PR2677 | 537-88-14/537-143-03 | 130821JST16/130927MHT17 |
| 131001-1041 | 5,708 | PR2679 | 537-88-14/537-143-03 | 130821JST16/130927MHT17 |
| 131005-1042 | 5,768 | PR2684 | 537-88-14/537-150-11 | 130821JST16/131002JST17 |
| 131005-1043 | 5,445 | PR2685 | 537-88-14/537-150-11 | 130821JST16/131002JST17 |
| 131009-1044 | 5,883 | PR2691 | 537-88-14/537-154-24 | 130821JST16/131007MHT16 |
| 131010-1045 | 5,956 | PR2696 | 537-88-14/537-159-04 | 130821JST16/131010MHT17 |
| 131011-1046 | 5,734 | PR2700 | 537-88-14/537-154-24 | 130821JST16/131007MHT16 |
| 131011-1047 | 5,667 | PR2699 | 537-88-14/537-159-04 | 130821JST16/131010MHT17 |
| 131012-1048 | 5,682 | PR2705 | 537-156-11/537-154-24 | 131008JST12/131007MHT16 |
| 131012-1049 | 5,880 | PR2703 | 537-156-11/537-159-04 | 131008JST12/131010MHT17 |
| 131012-1050 | 5,833 | PR2704 | 537-156-11/537-159-04 | 131008JST12/131010MHT17 |
| 131014-1051 | 5,532 | PR2706 | 537-156-11/537-154-24 | 131008JST12/131007MHT16 |
| 131015-1052 | 5,632 | PR2710 | 537-156-11/537-165-6 | 131008JST12/131015JST17 |
| 131017-1053 | 5,849 | PR2716 | 537-156-11/537-165-6 | 131008JST12/131015JST17 |
| 131018-1054 | 5,885 | PR2719 | 537-156-11/537-165-6 | 131008JST12/131015JST17 |
| 131021-1057 | 6,028 | PR2721 | 537-156-11/537-171-21 | 131008JST12/131021JST16 |
| 131021-1058 | 5,954 | PR2722 | 537-156-11/537-165-6 | 131008JST12/131015JST17 |
| 131022-1059 | 5,669 | PR2723 | 537-156-11/537-171-21 | 131008JST12/131021JST16 |
| 131023-1060 | 5,817 | PR2724 | 537-156-11/537-171-21 | 131008JST12/131021JST16 |
| 131025-1061 | 5,640 | PR2726 | 537-156-11/537-171-21 | 131008JST12/131021JST12 |
| 131026-1062 | 5,912 | PR2730 | 537-156-11/537-177-19 | 131008JST12/131025JST17 |
| 131029-1063 | 5,901 | PR2734 | 537-156-11/537-177-19 | 131008JST12/131025JST17 |
| 131028-1064 | 6,175 | PR2735 | 537-156-11/537-177-19 | 131008JST12/131025JST17 |
| 131030-1065 | 5,938 | PR2738 | 537-156-11/537-177-19 | 131008JST12/131025JST17 |
| 131030-1066 | 5,698 | PR2739 | 537-156-11/537-184-9 | 131008JST12/131030JST13 |
| 131031-1067 | 5,972 | PR2741 | 537-156-11/537-185-16 | 131008JST12/131031JST16 |
| 131031-1068 | 5,959 | PR2742 | 537-156-11/537-185-16 | 131008JST12/131031JST16 |
| 131106-1069 | 5,949 | PR2743 | 537-156-11/537-185-16 | 131008JST12/131031JST16 |
| 131106-1070 | 5,691 | PR2744 | 537-175-10/537-185-16 | 131024JST10/131031JST16 |
| 131108-1071 | 5,774 | PR2745 | 537-175-10/537-185-16 | 131024JST10/131031JST16 |
| 131108-1072 | 5,443 | PR2746 | 537-175-10/537-185-16 | 131024JST10/131031JST16 |
| 131113-1073 | 5,831 | PR2747 | 537-175-10/537-202-16 | 131024JST10/131113JST17 |
| 131115-1074 | 5,800 | PR2748 | 537-175-10/537-202-16 | 131024JST10/131113JST17 |
| 131118-1075 | 5,816 | PR2749 | 537-175-10/537-202-16 | 131024JST10/131113JST17 |
| 131119-1076 | 5,513 | PR2754 | 537-175-10/537-202-16 | 131024JST10/131113JST17 |
| 131120-1077 | 5,624 | PR2757 | 537-175-10/538-1-5 | 131024JST10/131120JST16 |
| 131122-1078 | 5,854 | PR2762 | 537-175-10/538-1-5 | 131024JST10/131120JST16 |
| 131122-1079 | 5,745 | PR2763 | 537-175-10/538-1-5 | 131024JST10/131120JST16 |
| 131210-1080 | 5,916 | PR2767 | 537-175-10/538-25-17 | 131024JST10/131210JST16 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 131210-1081 | 5,911 | PR2768 | 537-175-10/538-25-17 | 131024JST10/131210JST16 |
| 131211-1082 | 5,947 | PR2769 | 537-175-10/538-26-24 | 131024JST10/131211JST17 |
| 131213-1083 | 5,797 | PR2770 | 537-175-10/538-25-17 | 131024JST10/131210JST16 |
| 131213-1084 | 5,658 | PR2771 | 537-175-10/538-25-17 | 131024JST10/131210JST16 |
| 131213-1085 | 5,776 | PR2772 | 537-175-10/538-26-24 | 131024JST10/131211JST17 |
| 131216-1086 | 5,440 | PR2773 | 537-175-10/538-26-24 | 131024JST10/131211JST17 |
| 131217-1087 | 5,492 | PR2774 | 537-175-10/538-26-24 | 131024JST10/131211JST17 |
| 131218-1088 | 5,443 | PR2775 | 537-175-10/538-26-24 | 131024JST10/131211JST17 |
| 131226-1089 | 5,753 | PR2777 | 537-175-10/538-40-14 | 131024JST10/131223JST16 |
| 131227-1090 | 5,658 | PR2779 | 538-32-14/538-42-4 | 131216JST11/131226JST17 |
| 131227-1091 | 5,720 | PR2778 | 538-32-14/538-42-4 | 131216JST11/131226JST17 |
| 131228-1092 | 5,728 | PR2780 | 538-32-14/538-40-14 | 131216JST11/131223JST16 |
| 131230-1093 | 5,612 | PR2781 | 538-32-14/538-40-14 | 131216JST11/131223JST16 |
| 131231-1094 | 5,787 | PR2782 | 538-32-14/538-46-17 | 131216JST11/131230JST17 |
| 131231-1095 | 5,576 | PR2783 | 538-32-14/538-40-14 | 131216JST11/131223JST16 |
| 131231-1096 | 5,310 | PR2784 | 538-32-14/538-46-17 | 131216JST11/131230JST17 |
| 140102-1097 | 5,635 | PR2785 | 538-32-14/538-46-17 | 131216JST11/131230JST17 |
| 140103-1098 | 5,292 | PR2786 | 538-32-14/538-46-17 | 131216JST11/131230JST17 |
| 140108-1099 | 5,638 | PR2787 | 538-32-14/538-55-14 | 131216JST11/140106JST16 |
| 140108-1100 | 5,656 | PR2788 | 538-32-14/538-55-14 | 131216JST11/140106JST16 |
| 140110-1101 | 5,772 | PR2792 | 538-32-14/538-55-14 | 131216JST11/140106JST16 |
| 140110-1102 | 5,761 | PR2791 | 538-32-14/538-55-14 | 131216JST11/140106JST16 |
| 140111-1103 | 5,772 | PR2794 | 538-32-14/538-59-5 | 131216JST11/140109JST17 |
| 140111-1104 | 5,697 | PR2793 | 538-32-14/538-59-5 | 131216JST11/140109JST17 |
| 140114-1105 | 5,785 | PR2795 | 538-32-14/538-64-8 | 131216JST11/140114JST31 |
| 140115-1106 | 5,867 | PR2797 | 538-32-14/538-59-5 | 131216JST11/140109JST17 |
| 140115-1107 | 5,408 | PR2796 | 538-32-14/538-64-12 | 131216JST11/140114JST13 |
| 140116-1108 | 5,847 | PR2798 | 538-32-14/538-59-5 | 131216JST11/140109JST17 |
| 140117-1109 | 5,867 | PR2800 | 538-32-14/538-59-5 | 131216JST11/140109JST17 |
| 140117-1110 | 5,866 | PR2801 | 538-59-10/538-68-13 | 140109JST11/140117JST16 |
| 140117-1111 | 5,899 | PR2799 | 538-59-10/538-68-13 | 140109JST11/140117JST16 |
| 140118-1112 | 5,779 | PR2802 | 538-59-10/538-68-13 | 140109JST11/140117JST16 |
| 140120-1113 | 5,593 | PR2804 | 538-59-10/538-68-13 | 140109JST11/140117JST16 |
| 140121-1115 | 5,700 | PR2805 | 538-59-10/538-68-13 | 140109JST11/140117JST16 |
| 140122-1116 | 5,585 | PR2806 | 538-59-10/538-68-13 | 140109JST11/140117JST16 |
| 140215-1117 | 5,608 | PR2807 | 538-59-10/538-76-7 | 140109JST11/140123JST11 |
| 140114-1118 | 5,552 | PR2808 | 538-59-10/538-82-8 | 140109JST11/140127JST13 |
| 140129-1119 | 6,050 | PR2809 | 538-59-10/538-81-27 | 140109JST11/140127JST10 |
| 140129-1120 | 4,644 | PR2810 | 538-59-10/538-81-27 | 140109JST11/140127JST10 |
| 140129-1121 | 5,057 | PR2811 | 538-59-10/538-82-12 | 140109JST11/140127JST17 |
| 140129-1122 | 5,300 | PR2812 | 538-59-10/538-82-12 | 140109JST11/140127JST17 |
| 140129-1123 | 5,442 | PR2813 | 538-59-10/538-82-12 | 140109JST11/140127JST17 |
| 140130-1124 | 5,476 | PR2814 | 538-59-10/538-82-4 | 140109JST11/140127JST12 |
| 140130-1125 | 5,473 | PR2815 | 538-59-10/538-82-12 | 140109JST11/140127JST17 |
| 140130-1126 | 5,376 | PR2816 | 538-59-10/538-82-4 | 140109JST11/140127JST12 |
| 140131-1127 | 6,101 | PR2817 | 538-59-10/538-82-12 | 140109JST11/140127JST17 |
| 140131-1128 | 5,088 | PR2818 | 538-59-10/538-86-26 | 140109JST11/140130MHT11 |
| 140201-1129 | 5,282 | PR2821 | 538-59-10/538-86-26 | 140109JST11/140130MHT11 |
| 140201-1130 | 5,169 | PR2820 | 538-59-10/538-86-26 | 140109JST11/140130MHT10 |
| 140201-1131 | 5,585 | PR2822 | 538-59-10/538-86-26 | 140109JST11/140130MHT10 |
| 140205-1132 | 5,576 | No Pr # | 538-88-02/538-88-07 | 140131MHT12/140131MHT17 |
| 140205-1133 | 5,624 | No Pr # | 538-88-02/538-91-12 | 140131MHT12/140205JST12 |
| 140207-1134 | 5,659 | PR2826 | 538-88-02/538-88-07 | 140131MHT12/140131MHT17 |
| 140207-1135 | 5,516 | PR2827 | 538-88-02/538-88-07 | 140131MHT12/140131MHT17 |
| 140208-1136 | 5,344 | PR2828 | 538-88-02/538-88-07 | 140131MHT12/140131MHT17 |
| 140208-1137 | 4,616 | PR2829 | 538-88-02/538-88-07 | 140131MHT12/140131MHT17 |
| 140214-1138 | 5,700 | PR2833 | 538-88-02/538-98-18 | 140131MHT12/140214JST17 |
| 140214-1139 | 5,791 | PR2832 | 538-88-02/538-98-18 | 140131MHT12/140214JST17 |
| 140220-1140 | 6,169 | PR2834 | 538-88-02/538-98-18 | 140131MHT12/140214JST17 |
| 140221-1141 | 5,304 | PR2835 | 538-88-02/538-98-18 | 140131MHT12/140214JST17 |
| 140228-1142 | 5,824 | PR2837 | 538-88-02/538-110-9 | 140131MHT12/140227JST13 |
| 140314-1143 | 5,657 | PR2857 | 538-88-02/538-127-22 | 140131MHT12/140313JST16 |
| 140314-1144 | 5,657 | PR2858 | 538-88-02/538-127-22 | 140131MHT12/140313JST16 |
| 140304-1145 | 5,910 | PR2838 | 538-88-02/538-114-4 | 140131MHT12/140303JST12 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 140317-1146 | 5,279 | PR2861 | 538-88-02/538-127-22 | 140131MHT12/140313JST16 |
| 140318-1147 | 5,492 | PR2862 | 538-88-02/538-127-22 | 140131MHT12/140313JST16 |
| 140321-1148 | 5,560 | PR2868 | 538-88-02/538-138-11 | 140131MHT12/140321MHT17 |
| 140324-1149 | 5,638 | PR2870 | 538-88-02/538-142-9 | 140131MHT12/140324JST16 |
| 140324-1150 | 5,791 | PR2872 | 538-88-02/538-138-11 | 140131MHT12/140321MHT17 |
| 140325-1151 | 5,519 | PR2874 | 538-123-15/538-138-11 | 140310JST13/140321MHT17 |
| 140325-1152 | 5,627 | PR2875 | 538-123-15/538-138-11 | 140310JST13/140321MHT17 |
| 140325-1153 | 5,713 | PR2877 | 538-88-02/538-142-9 | 140131MHT12/140324JST16 |
| 140326-1154 | 5,638 | PR2878 | 538-123-15/538-138-11 | 140310JST13/140321MHT17 |
| 140326-1155 | 5,781 | PR2879 | 538-123-15/538-142-9 | 140310JST13/140324JST16 |
| 140327-1156 | 5,460 | PR2882 | 538-123-15/538-145-16 | 140310JST13/140326JST16 |
| 140331-1157 | 5,657 | PR2888 | 538-123-15/538-145-16 | 140310JST13/140326JST16 |
| 140328-1158 | 5,775 | PR2885 | 538-123-15/538-145-16 | 140310JST13/140326JST16 |
| 140402-1159 | 5,931 | PR2890 | 538-123-15/538-145-16 | 140310JST13/140326JST16 |
| 140402-1160 | 5,805 | PR2891 | 538-123-15/538-153-19 | 140310JST13/140402JST17 |
| 140403-1161 | 5,843 | PR2892 | 538-123-15/538-153-19 | 140310JST13/140402JST17 |
| 140403-1162 | 5,869 | PR2893 | 538-123-15/538-153-19 | 140310JST13/140402JST17 |
| 140404-1163 | 5,702 | PR2894 | 538-123-15/538-153-19 | 140310JST13/140402JST17 |
| 140409-1164 | 5,797 | PR2896 | 538-123-15/538-162-11 | 140310JST13/140408JST16 |
| 140414-1165 | 5,697 | PR2897 | 538-123-15/538-162-11 | 140310JST13/140408JST16 |
| 140415-1166 | 5,573 | PR2898 | 538-123-15/538-162-11 | 140310JST13/140408JST16 |
| 140416-1167 | 5,797 | PR2899 | 538-123-15/538-168-27 | 140310JST13/140414JST11T13 |
| 140416-1168 | 5,662 | PR2900 | 538-123-15/538-168-27 | 140310JST13/140414JST11T13 |
| 140416-1169 | 5,414 | PR2901 | 538-123-15/538-171-4 | 140310JST13/140416JST16 |
| 140418-1170 | 5,675 | PR2902 | 538-123-15/538-169-17 | 140310JST13/140415JST10 |
| 140425-1171 | 5,826 | PR2905 | 538-168-23/538-178-16 | 140414JST11/140423JST17 |
| 140425-1172 | 6,152 | PR2906 | 538-123-15/538-178-16 | 140310JST13/140423JST17 |
| 140430-1173 | 5,595 | PR2908 | 538-168-23/538-186-4 | 140414JST11/140429JST17 |
| 140430-1174 | 5,719 | PR2909 | 538-168-23/538-186-4 | 140414JST11/140429JST17 |
| 140507-1175 | 5,576 | PR2911 | 538-168-23/538-194-27 | 140414JST11/140507JST12 |
| 140508-1176 | 5,813 | PR2913 | 538-168-23/538-195-3 | 140414JST11/140507JST16 |
| 140513-1177 | 5,826 | PR2915 | 538-168-23/538-195-3 | 140414JST11/140507JST16 |
| 140513-1178 | 5,818 | PR2916 | 538-168-23/538-195-3 | 140414JST11/140507JST16 |
| 140519-1179 | 5,853 | PR2917 | 538-168-23/538-201-15 | 140414JST11/140514JST17 |
| 140519-1180 | 5,878 | PR2918 | 538-168-23/538-201-15 | 140414JST11/140514JST17 |
| 140520-1181 | 5,937 | PR2919 | 538-168-23/538-201-15 | 140414JST11/140514JST17 |
| 140528-1182 | 6,066 | PR2921 | 538-168-23/539-8-6 | 140414JST11/140527JST17 |
| 140528-1183 | 6,002 | PR2922 | 538-168-23/539-8-6 | 140414JST11/140527JST17 |
| 140530-1184 | 6,007 | PR2924 | 538-168-23/539-8-6 | 140414JST11/140527JST17 |
| 140530-1185 | 6,080 | PR2923 | 538-168-23/539-11-21 | 140414JST11/140530JST10 |
| 140604-1186 | 5,888 | PR2925 | 538-168-23/539-17-13 | 140414JST11/140603JST17 |
| 140604-1187 | 5,880 | PR2926 | 538-168-23/539-17-13 | 140414JST11/140603JST17 |
| 140605-1188 | 5,950 | PR2927 | 538-168-23/539-17-13 | 140414JST11/140603JST17 |
| 140606-1189 | 6,188 | PR2929 | 538-168-23/539-17-13 | 140414JST11/140603JST17 |
| 140611-1190 | 5,993 | PR2934 | 538-168-23/538-25-18 | 140414JST11/140610JST17 |
| 140611-1191 | 5,999 | PR2935 | 538-168-23/539-25-18 | 140414JST11/140610JST17 |
| 140619-1192 | 6,004 | PR2938 | 539-3-28/539-35-27 | 140523JST11/140619JST17 |
| 140620-1193 | 5,770 | PR2940 | 539-3-28/539-35-27 | 140523JST11/140619JST17 |
| 140620-1194 | 5,964 | PR2941 | 539-3-28/539-35-27 | 140523JST11/140619JST17 |
| 140623-1195 | 5,993 | PR2942 | 539-3-28/539-35-27 | 140523JST11/140619JST17 |
| 140703-1196 | 5,907 | PR2947 | 539-3-28/539-54-24 | 140523JST11/140702JST11 |
| 140703-1197 | 6,225 | PR2948 | 539-3-28/539-54-24 | 140523JST11/140702JST11 |
| 140616-1198 | 5,983 | PR2936 | 539-3-28/539-25-18 | 140523JST11/140610JST17 |
| 140707-1199 | 6,126 | PR2949 | 539-3-28/539-35-27 | 140523JST11/140619JST17 |
| 140707-1200 | 6,107 | PR2950 | 539-3-28/539-35-27 | 140523JST11/140619JST17 |
| 140707-1201 | 6,147 | PR2951 | 539-3-28/539-35-27 | 140523JST11/140619JST17 |
| 140710-1202 | 5,692 | PR2954 | 539-3-28/539-61-21 | 140523JST11/140708JST16 |
| 140714-1203 | 5,751 | PR2956 | 539-3-28/539-68-22 | 140523JST11/140714JST16 |
| 140716-1204 | 5,869 | PR2958 | 539-3-28/539-68-22 | 140523JST11/140714JST16 |
| 140717-1205 | 6,088 | PR2962 | 539-3-28/539-68-22 | 140523JST11/140714JST16 |
| 140717-1206 | 5,721 | PR2964 | 539-3-28/539-71-7 | 140523JST11/140716JST17 |
| 140718-1207 | 6,053 | PR2967 | 539-3-28/539-68-22 | 140523JST11/140714JST16 |
| 140721-1208 | 6,090 | PR2968 | 539-3-28/539-77-16 | 140523JST11/140721JST16 |
| 140721-1209 | 5,802 | PR2969 | 539-3-28/539-77-16 | 140523JST11/140721JST16 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 140722-1210 | 5,843 | PR2971 | 539-3-28/539-77-16 | 140523JST11/140721JST16 |
| 140723-1211 | 5,759 | PR2972 | 539-3-28/539-77-16 | 140523JST11/140721JST16 |
| 140723-1212 | 4,153 | PR2973 | 539-70-4/539-78-27 | 140715JST11/140722JST11 |
| 140723-1213 | 5,727 | PR2976 | 539-70-4/539-80-19 | 140715JST11/140723JST16 |
| 140726-1214 | 5,605 | PR2977 | 539-70-4/539-80-19 | 140715JST11/140723JST16 |
| 140726-1215 | 5,837 | PR2978 | 539-70-4/539-80-19 | 140715JST11/140723JST16 |
| 140726-1216 | 5,627 | PR2979 | 539-70-4/539-80-19 | 140715JST11/140723JST16 |
| 140726-1217 | 5,772 | PR2980 | 539-70-4/539-80-19 | 140715JST11/140723JST16 |
| 140726-1218 | 5,746 | PR2981 | 539-70-4/539-71-7 | 140715JST11/140716JST17 |
| 140726-1219 | 5,740 | PR2982 | 539-70-4/539-71-7 | 140715JST11/140716JST17 |
| 140730-1220 | 6,066 | PR2983 | 539-70-4/539-89-3 | 140715JST11/140729JST17 |
| 140730-1221 | 5,791 | PR2984 | 539-70-4/539-89-3 | 140715JST11/140729JST17 |
| 140730-1222 | 5,729 | PR2985 | 539-70-4/539-88-23 | 140715JST11/140729JST11 |
| 140801-1223 | 5,791 | PR2986 | 539-70-4/539-88-27 | 140715JST11/140729JST12 |
| 140801-1224 | 5,578 | PR2987 | 539-70-4/539-88-27 | 140715JST11/140729JST12 |
| 140801-1225 | 5,538 | PR2988 | 539-70-4/539-91-26 | 140715JST11/140731JST10 |
| 140801-1226 | 5,686 | PR2989 | 539-70-4/539-91-12 | 140715JST11/140731JST13 |
| 140808-1227 | 5,357 | PR2990 | 539-70-4/539-101-10 | 140715JST11/140807JST13 |
| 140808-1228 | 5,948 | PR2991 | 539-70-4/539-101-16 | 140715JST11/140807JST16 |
| 140808-1229 | 5,446 | PR2992 | 539-70-4/539-101-16 | 140715JST11/140807JST16 |
| 140809-1230 | 5,632 | PR2993 | 539-70-4/539-103-6 | 140715JST11/140808JST17 |
| 140809-1231 | 5,600 | PR2994 | 539-90-10/539-103-6 | 140730JST13/140808JST17 |
| 140809-1232 | 5,452 | PR2995 | 539-90-10/539-103-6 | 140730JST13/140808JST17 |
| 140809-1233 | 5,387 | PR2996 | 539-70-4/539-101-16 | 140715JST11/140807JST16 |
| 140811-1234 | 5,756 | PR2998 | 539-103-10/539-90-10 | 140730JST13/140808JST36 |
| 140811-1235 | 5,619 | PR2999 | 539-103-10/539-90-10 | 140730JST13/140808JST36 |
| 140812-1236 | 5,880 | PR3000 | 539-103-10/539-90-10 | 140730JST13/140808JST36 |
| 140819-1237 | 5,365 | PR3011 | 539-90-10/539-113-20 | 140730JST13/140818JST12 |
| 140820-1238 | 5,578 | PR3012 | 539-90-10/539-113-20 | 140730JST13/140818JST12 |
| 140820-1239 | 5,290 | PR3013 | 539-90-10/539-115-10 | 140730JST13/140819JST10 |
| 140820-1240 | 5,605 | PR3014 | 539-90-10/539-115-10 | 140730JST13/140819JST10 |
| 140821-1241 | 5,751 | PR3015 | 539-90-10/539-115-6 | 140730JST13/140819JST16 |
| 140821-1242 | 5,581 | PR3016 | 539-90-10/539-115-6 | 140730JST13/140819JST16 |
| 140822-1243 | 6,020 | PR3018 | 539-90-10/539-115-6 | 140730JST13/140819JST16 |
| 140822-1244 | 5,802 | PR3019 | 539-90-10/539-115-6 | 140730JST13/140819JST16 |
| 140823-1245 | 5,640 | PR3020 | 539-90-10/539-115-6 | 140730JST13/140819JST16 |
| 140823-1246 | 6,174 | PR3021 | 539-90-10/539-119-4 | 140730JST13/140822JST17 |
| 140825-1247 | 5,702 | PR3022 | 539-90-10/539-119-4 | 140730JST13/140822JST17 |
| 140825-1248 | 5,907 | PR3023 | 539-90-10/539-119-4 | 140730JST13/140822JST17 |
| 140826-1249 | 5,813 | PR3026 | 539-90-10/539-119-4 | 140730JST13/140822JST17 |
| 140828-1250 | 5,522 | PR3031 | 539-90-10/539-127-5 | 140730JST13/140827JST16 |
| 140828-1251 | 6,099 | PR3032 | 539-90-10/539-127-5 | 140730JST13/140827JST16 |
| 140829-1252 | 5,867 | PR3036 | 539-90-10/539-127-5 | 140730JST13/140827JST16 |
| 140904-1253 | 5,714 | PR3040 | 539-125-24/539-127-5 | 140826JST11/140827JST16 |
| 140911-1254 | 5,856 | PR3047 | 539-125-24/539-136-18 | 140826JST11/140903JST17 |
| 140911-1255 | 5,923 | PR3048 | 539-125-24/539-136-18 | 140826JST11/140903JST17 |
| 140912-1256 | 5,921 | PR3049 | 539-125-24/539-146-16 | 140826JST11/140911JST11 |
| 140917-1257 | 5,781 | PR3051 | 539-125-24/539-153-5 | 140826JST11/140916JST16 |
| 140917-1258 | 5,983 | PR3052 | 539-125-24/539-153-5 | 140826JST11/140916JST16 |
| 140918-1259 | 5,560 | PR3054 | 539-125-24/539-155-4 | 140826JST11/140917JST11 |
| 140918-1260 | 5,856 | PR3055 | 539-125-24/539-153-5 | 140826JST11/140916JST16 |
| 140918-1261 | 5,686 | PR3056 | 539-125-24/539-154-28 | 140826JST11/140917JST10 |
| 140919-1262 | 5,945 | PR3057 | 539-125-24/539-156-19 | 140826JST11/140918JST13 |
| 140919-1263 | 5,781 | PR3058 | 539-125-24/539-156-19 | 140826JST11/140918JST13 |
| 140924-1264 | 5,859 | PR3063 | 539-125-24/539-164-19 | 140826JST11/140923JST11 |
| 140930-1265 | 5,934 | PR3082 | 539-125-24/539-173-21 | 140826JST11/140929JST16 |
| 141007-1266 | 5,104 | PR3083 | 539-125-24/539-183-14 | 140826JST11/141006JST16 |
| 141013-1267 | 5,786 | PR3084 | 539-125-24/539-186-23 | 140826JST11/141009JST16 |
| 141013-1268 | 5,646 | PR3085 | 539-125-24/539-186-23 | 140826JST11/141009JST16 |
| 141014-1269 | 5,808 | PR3086 | 539-125-24/539-192-10 | 140826JST11/141014JST11 |
| 141022-1270 | 5,929 | PR3088 | 539-125-24/539-200-14 | 140826JST11/141021JST16 |
| 141022-1271 | 5,972 | PR3089 | 539-125-24/539-200-14 | 140826JST11/141021JST16 |
| 141028-1272 | 6,169 | PR3091 | 539-125-24/539-202-26 | 140826JST11/141023JST16 |
| 141028-1273 | 5,810 | PR3092 | 539-179-24/542-1-27 | 141003JST13/141028JST17 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 141028-1274 | 5,737 | PR3093 | 539-179-24/542-1-27 | 141003JST13/141028JST17 |
| 141028-1275 | 6,150 | PR3094 | 539-179-24/539-202-26 | 141003JST13/141023JST16 |
| 141029-1276 | 5,872 | PR3095 | 539-179-24/542-1-27 | 141003JST13/141028JST17 |
| 141029-1277 | 5,692 | PR3096 | 539-179-24/539-202-26 | 141003JST13/141023JST16 |
| 141029-1278 | 5,605 | PR3097 | 539-179-24/539-202-26 | 141003JST13/141023JST16 |
| 141029-1279 | 5,905 | PR3098 | 539-179-24/542-1-27 | 141003JST13/141028JST17 |
| 141030-1280 | 5,646 | PR3101 | 539-179-24/539-202-26 | 141003JST13/141023JST16 |
| 141030-1281 | 5,578 | PR3102 | 539-179-24/542-5-24 | 141003JST13/141030JST16 |
| 141031-1282 | 5,689 | PR3104 | 539-179-24/542-1-27 | 141003JST13/141028JST17 |
| 141031-1283 | 5,737 | PR3105 | 539-179-24/542-13-7 | 141003JST13/141031JST17 |
| 141114-1284 | 5,910 | PR3106 | 539-179-24/542-25-13 | 141003JST13/141112JST12 |
| 141117-1285 | 6,061 | PR3108 | 539-179-24/542-32-28 | 141003JST13/141117JST17 |
| 141117-1286 | 5,546 | PR3109 | 539-179-24/542-32-28 | 141003JST13/141117JST17 |
| 141118-1287 | 5,999 | PR3110 | 539-179-24/542-32-28 | 141003JST13/141117JST17 |
| 141118-1288 | 5,840 | PR3111 | 539-179-24/542-32-28 | 141003JST13/141117JST17 |
| 141119-1289 | 5,751 | PR3112 | 539-179-24/542-33-26 | 141003JST13/141118JST13 |
| 141119-1290 | 5,651 | PR3113 | 539-179-24/542-32-28 | 141003JST13/141117JST17 |
| 141125-1291 | 6,182 | PR3115 | 539-179-24/542-41-5 | 141003JST13/141124JST17 |
| 141125-1292 | 6,128 | PR3116 | 539-179-24/542-41-5 | 141003JST13/141124JST17 |
| 141212-1293 | 5,991 | PR3119 | 542-2-79/542-57-18 | 141113JST11/141211JST17 |
| 141212-1294 | 5,818 | PR3120 | 542-27-9/542-57-18 | 141113JST11/141211JST17 |
| 141212-1295 | 5,864 | PR3121 | 542-27-9/542-57-18 | 141113JST11/141211JST17 |
| 141224-1296 | 5,869 | PR3122 | 542-27-9/542-73-21 | 141113JST11/141222JST17 |
| 141224-1297 | 5,638 | PR3123 | 542-27-9/542-73-21 | 141113JST11/141222JST17 |
| 141224-1298 | 5,840 | PR3124 | 542-27-9/542-73-21 | 141113JST11/141222JST17 |
| 150102-1299 | 5,589 | PR3125 | 542-27-9/542-80-25 | 141113JST11/141229JST16 |
| 150102-1300 | 5,816 | PR3126 | 542-27-9/542-80-25 | 141113JST11/141229JST16 |
| 150102-1301 | 5,940 | PR3127 | 542-27-9/542-80-25 | 141113JST11/141229JST16 |
| 150107-1302 | 5,813 | PR3128 | 542-27-9/542-94-13 | 141113JST11/150107JST16 |
| 150108-1303 | 5,993 | PR3130 | 542-27-9/542-94-13 | 141113JST11/150107JST16 |
| 150109-1304 | 6,109 | PR3131 | 542-27-9/542-94-13 | 141113JST11/150107JST16 |
| 150115-1305 | 5,471 | PR3132 | 542-27-9/542-105-13 | 141113JST11/150115JST16 |
| 150115-1306 | 5,657 | PR3133 | 542-27-9/542-105-13 | 141113JST11/150115JST16 |
| 150116-1307 | 5,816 | PR3134 | 542-27-9/542-105-13 | 141113JST11/150115JST16 |
| 150116-1308 | 5,878 | PR3135 | 542-27-9/542-105-13 | 141113JST11/150115JST16 |
| 150124-1309 | 6,271 | PR3138 | 542-27-9/542-114-2 | 141113JST11/150122JST16 |
| 150124-1310 | 5,686 | PR3139 | 542-27-9/542-114-2 | 141113JST11/150122JST16 |
| 150126-1311 | 5,942 | PR3140 | 542-27-9/542-114-2 | 141113JST11/150122JST16 |
| 150126-1312 | 6,002 | PR3143 | 542-27-9/542-114-2 | 141113JST11/150122JST16 |
| 150129-1313 | 5,818 | PR3158 | 542-107-8/542-121-28 | 150116JST13/150127JST17 |
| 150129-1314 | 5,746 | PR3160 | 542-107-8/542-121-28 | 150116JST13/150127JST17 |
| 150130-1315 | 5,716 | PR3163 | 542-107-8/542-121-28 | 150116JST13/150127JST17 |
| 150130-1316 | 5,805 | PR3164 | 542-107-8/542-121-28 | 150116JST13/150127JST17 |
| 150213-1317 | 5,791 | PR3190 | 542-107-8/542-148-08 | 150116JST13/150213JAGT17 |
| 150213-1318 | 5,735 | PR3191 | 542-107-8/542-148-08 | 150116JST13/150213JAGT17 |
| 150213-1319 | 5,905 | PR3192 | 542-107-8/542-148-08 | 150116JST13/150213JAGT17 |
| 150213-1320 | 5,721 | PR3193 | 542-107-8/542-148-08 | 150116JST13/150213JAGT17 |
| 150216-1321 | 5,430 | PR3194 | 542-107-8/542-152-25 | 150116JST13/150216JAGT16 |
| 150216-1322 | 5,395 | PR3195 | 542-107-8/542-152-25 | 150116JST13/150216JAGT16 |
| 150220-1323 | 5,907 | PR3196 | 542-107-8/542-158-03 | 150116JST13/150219JAGT17 |
| 150220-1324 | 5,748 | PR3197 | 542-107-8/542-152-25 | 150116JST13/150216JAGT16 |
| 150220-1325 | 5,619 | PR3198 | 542-107-8/542-152-25 | 150116JST13/150216JAGT16 |
| 150220-1326 | 5,899 | PR3199 | 542-107-8/542-158-03 | 150116JST13/150219JAGT17 |
| 150221-1327 | 5,729 | PR3200 | 542-107-8/542-158-03 | 150116JST13/150219JAGT17 |
| 150221-1328 | 5,721 | PR3201 | 542-107-8/542-158-03 | 150116JST13/150219JAGT17 |
| 150225-1329 | 5,492 | PR3203 | 542-107-8/542-158-03 | 150116JST13/150219JAGT17 |
| 150226-1330 | 5,789 | PR3204 | 542-107-8/542-167-25 | 150116JST13/150225JST17 |
| 150227-1331 | 5,743 | PR3205 | 542-107-8/542-167-25 | 150116JST13/150225JST17 |
| 150303-1332 | 5,702 | No Pr # | 542-107-8/542-173-16 | 150116JST13/150302JST16 |
| 150304-1333 | 5,799 | No Pr # | 542-163-24/542-173-16 | 150223JST12/150302JST16 |
| 150305-1334 | 5,910 | PR3209 | 542-163-24/542-173-16 | 150223JST12/150302JST16 |
| 150311-1335 | 5,940 | PR3212 | 542-163-24/542-182-28 | 150223JST12/150310-O-0880T17 |
| 150311-1336 | 5,816 | PR3213 | 542-163-24/542-182-28 | 150223JST12/150310-O-0880T17 |
| 150312-1337 | 4,837 | PR3214 | 542-163-24/542-182-28 | 150223JST12/150310-O-0880T17 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 150312-1338 | 5,684 | PR3215 | 542-163-24/542-183-27 | 150223JST12/150311-O-0881T16 |
| 150313-1339 | 6,023 | PR3217 | 542-163-24/542-183-27 | 150223JST12/150311-O-0881T16 |
| 150318-1340 | 5,584 | No Pr # | 542-163-24/542-193-21 | 150223JST12/150317-O-0883 |
| 150318-1341 | 5,748 | No Pr # | 542-163-24/542-191-27 | 150223JST12/150316-O-0882 |
| 150318-1342 | 5,797 | PR3218 | 542-163-24/542-191-27 | 150223JST12/150316-O-0882 |
| 150318-1343 | 5,527 | PR3219 | 542-163-24/542-193-21 | 150223JST12/150316-O-0883 |
| 150318-1344 | 5,592 | PR3220 | 542-163-24/542-193-21 | 150223JST12/150317-O-0883 |
| 150319-1345 | 5,977 | PR3226 | 542-163-24/542-191-27 | 150223JST12/150316-O-0882 |
| 150325-1346 | 5,945 | PR3233 | 542-162-24/542-207-8 | 150223JST12/150324JST16 |
| 150325-1347 | 6,077 | PR3235 | 542-163-24/542-207-8 | 150223JST12/150324JST16 |
| 150326-1348 | 5,643 | No Pr # | 542-163-24/542-207-8 | 150223JST12/150324JST16 |
| 150326-1349 | 6,411 | PR3237 | 542-163-24/542-207-8 | 150223JST12/150324JST16 |
| 150326-1350 | 5,635 | PR3238 | 542-163-24/542-207-8 | 150223JST12/150324JST16 |
| 150331-1351 | 5,918 | PR3242 | 542-163-24/542-193-21 | 150223JST12/150317-O-0883 |
| 150402-1352 | 6,085 | PR3243 | 543-3-16/543-9-19 | 150326JST12/150330JST16 |
| 150402-1353 | 6,659 | PR3244 | 543-3-16/543-9-19 | 150326JST12/150330JST16 |
| 150402-1354 | 6,223 | PR3246 | 543-3-16/543-9-19 | 150326JST12/150330JST16 |
| 150403-1355 | 6,196 | PR3247 | 542-163-24/543-9-19 | 150223JST12/150330JST16 |
| 150403-1356 | 6,530 | PR3248 | 543-3-16/543-9-19 | 150326JST12/150330JST16 |
| 150407-1357 | 6,117 | PR3250 | 543-3-16/543-19-12 | 150326JST12/150406JST17 |
| 150407-1358 | 6,347 | PR3251 | 543-3-16/543-19-12 | 150326JST12/150406JST17 |
| 150407-1359 | 6,293 | PR3252 | 543-3-16/543-19-12 | 150326JST12/150406JST17 |
| 150407-1360 | 5,915 | PR3253 | 543-3-16/543-19-12 | 150326JST12/150406JST17 |
| 150409-1361 | 6,198 | PR3256 | 543-3-16/543-19-12 | 150326JST12/150406JST17 |
| 150416-1362 | 6,010 | PR3257 | 543-3-16/543-33-19 | 150326JST12/150416-O-0891 |
| 150416-1363 | 6,058 | PR3258 | 543-3-16/543-33-19 | 150326JST12/150416-O-0891 |
| 150417-1364 | 6,196 | PR3259 | 543-3-16/543-33-19 | 150326JST12/150416-O-0891 |
| 150417-1365 | 6,161 | PR3260 | 543-3-16/543-33-19 | 150326JST12/150416-O-0891 |
| 150418-1366 | 6,557 | PR3261 | 543-3-16/543-33-19 | 150326JST12/150416-O-0891 |
| 150420-1367 | 6,193 | PR3262 | 543-3-16/543-35-23 | 150326JST12/150417JST11 |
| 150420-1368 | 6,147 | PR3263 | 543-3-16/543-35-23 | 150326JST12/150417JST11 |
| 150429-1369 | 6,376 | PR3270 | 543-3-16/543-52-9 | 150326JST12/150428JST17 |
| 150429-1370 | 6,155 | PR3271 | 543-3-16/543-52-9 | 150326JST12/150428JST17 |
| 150429-1371 | 6,090 | PR3273 | 543-25-12/543-52-9 | 150410JST13/150428JST17 |
| 150430-1372 | 6,042 | PR3274 | 543-3-16/543-52-13 | 150326JST12/150428JST16 |
| 150430-1373 | 6,479 | PR3275 | 543-3-16/543-52-13 | 150326JST12/150428JST16 |
| 150501-1374 | 6,274 | PR3276 | 543-25-12/543-52-13 | 150410JST13/150428JST16 |
| 150501-1375 | 6,352 | PR3277 | 543-25-12/543-52-9 | 150410JST13/150428JST17 |
| 150501-1376 | 6,352 | PR3278 | 543-25-12/543-52-9 | 150410JST13/150428JST16 |
| 150502-1377 | 6,193 | PR3279 | 543-25-12/543-58-13 | 150410JST13/150501JST16 |
| 150502-1378 | 6,514 | PR3280 | 543-25-12/543-58-13 | 150410JST13/150501JST16 |
| 150502-1379 | 5,934 | PR3281 | 543-25-12/543-58-13 | 150410JST13/150501JST16 |
| 150502-1380 | 5,417 | PR3282 | 543-25-12/543-58-13 | 150410JST13/150501JST16 |
| 150513-1381 | 6,101 | PR3317 | 543-25-12/543-72-4 | 150410JST13/150511JST16 |
| 150513-1382 | 6,152 | PR3316 | 543-25-12/543-72-4 | 150410JST13/150511JST16 |
| 150513-1383 | 6,201 | PR3315 | 543-25-12/543-72-7 | 150410JST13/150511JST17 |
| 150513-1384 | 5,940 | PR3314 | 543-25-12/543-72-7 | 150410JST13/150511JST17 |
| 150513-1385 | 6,082 | PR3313 | 543-25-12/543-72-7 | 150410JST13/150511JST17 |
| 150513-1386 | 6,034 | PR3312 | 543-25-12/543-72-7 | 150410JST13/150511JST17 |
| 150514-1387 | 6,371 | PR3319 | 543-25-12/543-72-4 | 150410JST13/150511JST16 |
| 150514-1388 | 6,220 | PR3320 | 543-25-12/543-72-4 | 150410JST13/150511JST16 |
| 150515-1389 | 6,117 | PR3318 | 543-25-12/543-72-7 | 150410JST13/150511JST17 |
| 150515-1390 | 6,109 | PR3322 | 543-25-12/543-72-4 | 150410JST13/150511JST16 |
| 150526-1391 | 6,303 | PR3329 | 543-25-12/543-95-16 | 150410JST13/150526JST16 |
| 150526-1392 | 6,276 | PR3330 | 543-25-12/543-95-16 | 150410JST13/150526JST16 |
| 150603-1393 | 6,740 | PR3331 | 543-74-5/543-104-8 | 150512JST11/150602JST16 |
| 150603-1394 | 6,131 | PR3332 | 543-74-5/543-104-8 | 150512JST11/150602JST16 |
| 150603-1395 | 6,355 | PR3333 | 543-74-5/543-104-8 | 150512JST11/150602JST16 |
| 150604-1396 | 6,099 | PR3334 | 543-74-5/543-106-7 | 150512JST11/150604JST17 |
| 150604-1397 | 6,061 | PR3335 | 543-74-5/543-104-8 | 150512JST11/150602JST16 |
| 150604-1398 | 6,123 | PR3336 | 543-74-5/543-104-8 | 150512JST11/150602JST16 |
| 150606-1399 | 6,085 | PR3337 | 543-74-5/543-108-1 | 150512JST11/150605JST16 |
| 150606-1400 | 5,996 | PR3338 | 543-74-5/543-108-1 | 150512JST11/150605JST16 |
| 150606-1401 | 6,198 | PR3339 | 543-74-5/543-108-1 | 150512JST11/150605JST16 |



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**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 150608-1402 | 6,161 | PR3340 | 543-74-5/543-108-1 | 150512JST11/150605JST16 |
| 150608-1403 | 6,206 | PR3341 | 543-74-5/543-108-1 | 150512JST11/150605JST16 |
| 150615-1404 | 6,565 | PR3342 | 543-74-5/543-121-5 | 150512JST11/150612JST17 |
| 150615-1405 | 6,090 | PR3343 | 543-74-5/543-121-5 | 150512JST11/150612JST17 |
| 150615-1406 | 5,899 | PR3344 | 543-74-5/543-121-5 | 150512JST11/150612JST17 |
| 150618-1407 | 6,506 | PR3347 | 543-74-5/543-121-5 | 150512JST11/150612JST17 |
| 150618-1408 | 5,985 | PR3348 | 543-74-5/543-121-5 | 150512JST11/150612JST17 |
| 150620-1409 | 6,064 | PR3352 | 543-74-5/543-121-5 | 150512JST11/150612JST17 |
| 150623-1410 | 6,088 | PR3357 | 543-74-5/543-137-16 | 150512JST11/150623JST11 |
| 150623-1411 | 6,252 | PR3359 | 543-74-5/543-137-16 | 150512JST11/150623JST11 |
| 150630-1412 | 6,258 | PR3361 | 543-74-5/543-146-14 | 150512JST11/150629MHT16/543-146-14 |
| 150630-1413 | 6,241 | PR3362 | 543-128-24/543-146-14 | 150617JST12/150629MHT16/543-146-14 |
| 150630-1414 | 6,217 | PR3363 | 543-128-24/543-146-14 | 150617JST12/150629MHT16/543-146-14 |
| 150702-1415 | 6,015 | PR3364 | 543-128-24/543-146-14 | 150617JST12/150629MHT16/543-146-14 |
| 150702-1416 | 5,972 | PR3365 | 543-128-24/543-146-14 | 150617JST12/150629MHT16/543-146-14 |
| 150703-1417 | 6,093 | PR3366 | 543-128-24/543-140-15 | 150617JST12/150625JST17 |
| 150703-1418 | 6,196 | PR3367 | 543-128-24/543-140-15 | 150617JST12/150625JST17 |
| 150707-1419 | 6,179 | PR3370 | 543-128-24/543-155-14 | 150617JST12/150706JST16/543-155-14 |
| 150708-1420 | 6,099 | PR3371 | 543-128-24/543-155-14 | 150617JST12/150706JST16/543-155-14 |
| 150708-1421 | 6,395 | PR3372 | 543-128-24/543-155-14 | 150617JST12/150706JST16/543-155-14 |
| 150709-1422 | 6,155 | PR3373 | 543-128-24/543-159-27 | 150617JST12/150709JST17/543-159-27 |
| 150709-1423 | 5,996 | PR3374 | 543-128-24/543-159-27 | 150617JST12/150709JST17/543-159-27 |
| 150709-1424 | 6,193 | PR3375 | 543-128-24/543-155-14 | 150617JST12/150706JST16/543-155-14 |
| 150709-1425 | 6,225 | PR3376 | 543-128-24/543-155-14 | 150617JST12/150706JST16/543-155-14 |
| 150710-1426 | 6,174 | PR3377 | 543-128-24/543-159-24 | 150617JST12/150709JST17/543-159-27 |
| 150710-1427 | 6,363 | PR3378 | 543-128-24/543-159-27 | 150617JST12/150709JST17/543-159-27 |
| 150721-1428 | 5,786 | PR3379 | 543-128-24/543-171-16 | 150617JST12/543-171-16/150717JST16 |
| 150721-1429 | 6,155 | PR3380 | 543-128-24/543-171-16 | 150617JST12/543-171-16/150717JST16 |
| 150721-1430 | 6,233 | PR3381 | 543-128-24/543-171-16 | 150617JST12/543-171-16/150717JST16 |
| 150722-1431 | 6,400 | PR3382 | 543-128-24/543-171-16 | 150617JST12/543-171-16/150717JST16 |
| 150722-1432 | 5,810 | PR3383 | 543-128-24/543-171-16 | 150617JST12/543-171-16/150717JST16 |
| 150723-1433 | 6,002 | PR3384 | 543-166-19/543-178-18 | 150713JST12/543-178-18/150722JST17 |
| 150723-1434 | 6,117 | PR3385 | 543-166-19/543-178-18 | 150713JST12/543-178-18/150722JST17 |
| 150727-1435 | 6,198 | PR3386 | 543-166-19/543-178-18 | 150713JST12/543-178-18/150722JST17 |
| 150727-1436 | 6,282 | PR3387 | 543-166-19/543-178-18 | 150713JST12/543-178-18/150722JST17 |
| 150728-1437 | 6,314 | PR3388 | 543-166-19/543-188-23 | 150713JST12/543-188-23/150728JST16 |
| 150728-1438 | 6,225 | PR3389 | 543-166-19/543-188-23 | 150713JST12/543-188-23/150728JST16 |
| 150731-1439 | 6,166 | PR3390 | 543-166-19/543-191-5 | 150713JST12/543-191-5/150729JST17 |
| 150731-1440 | 5,950 | PR3391 | 543-166-19/543-191-5 | 150713JST12/543-191-5/150729JST17 |
| 150801-1441 | 6,336 | PR3392 | 543-166-19/543-188-23 | 150713JST12/543-188-23/150728JST16 |
| 150801-1442 | 6,414 | PR3393 | 543-166-19/543-188-23 | 150713JST12/543-188-23/150728JST16 |
| 150801-1443 | 6,460 | PR3394 | 543-166-19/543-191-5 | 150713JST12/543-191-5/150729JST17 |
| 150801-1444 | 6,306 | PR3395 | 543-166-19/543-191-5 | 150713JST12/543-191-5/150729JST17 |
| 150806-1445 | 6,347 | PR3396 | 543-166-19/543-201-19 | 150713JST12/543-201-19/150815MHT17 |
| 150806-1446 | 5,999 | PR3397 | 543-166-19/543-201-19 | 150713JST12/543-201-19/150815MHT17 |
| 150807-1447 | 6,867 | PR3398 | 543-166-19/543-201-19 | 150713JST12/543-201-19/150815MHT17 |
| 150807-1448 | 5,972 | PR3399 | 543-166-19/543-201-19 | 150713JST12/543-201-19/150815MHT17 |
| 150812-1449 | 5,934 | PR3400 | 543-166-19/544-04-20 | 150713JST12/544-04-20/150812MHT16 |
| 150812-1450 | 6,039 | PR3401 | 543-166-19/544-04-20 | 150713JST12/544-04-20/150812MHT16 |
| 150813-1451 | 6,322 | PR3404 | 543-166-19/544-04-20 | 150713JST12/544-04-20/150812MHT17 |
| 150813-1452 | 6,309 | PR3405 | 543-166-19/544-04-20 | 150713JST12/544-04-20/150812MHT16 |
| 150813-1453 | 6,190 | PR3402 | 544-3-7/544-04-20 | 150811JST11/544-3-7/544-04-20/150812MHT16 |
| 150813-1454 | 5,880 | PR3403 | 544-3-7/544-04-20 | 150811JST11/544-3-7/544-04-20/150812MHT16 |
| 150814-1455 | 6,163 | PR3406 | 544-3-7/544-04-20 | 150811JST11/544-3-7/544-04-20/150812MHT17 |
| 150814-1456 | 6,107 | PR3407 | 544-3-7/544-04-20 | 150811JST11/544-3-7/544-04-20/150812MHT17 |
| 150814-1457 | 6,147 | PR3408 | 544-3-7/544-04-20 | 150811JST11/544-3-7/544-04-20/150812MHT17 |
| 150818-1458 | 6,002 | PR3409 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT17 |
| 150818-1459 | 5,969 | PR3410 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT17 |
| 150820-1460 | 6,050 | PR3413 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT16 |
| 150821-1461 | 6,522 | PR3414 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT17 |
| 150821-1462 | 5,926 | PR3415 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT16 |
| 150821-1463 | 6,320 | PR3416 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT17 |
| 150821-1464 | 6,503 | PR3417 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT16 |
| 150822-1465 | 6,471 | PR3418 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT17 |



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**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 150826-1466 | 6,419 | PR3419 | 544-3-7/544-22-19 | 150811JST11/544-3-7/150825JST17/544-22-19 |
| 150827-1467 | 6,398 | PR3420 | 544-3-7/544-22-19 | 150811JST11/544-3-7/150825JST17/544-22-19 |
| 150827-1468 | 6,236 | PR3422 | 544-3-7/544-22-19 | 150811JST11/544-3-7/150825JST17/544-22-19 |
| 150828-1469 | 5,896 | PR3425 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT16 |
| 150828-1470 | 5,759 | PR3426 | 544-3-7/544-13-06 | 150811JST11/544-3-7/544-13-06/150818MHT16 |
| 150829-1471 | 6,425 | PR3427 | 544-3-7/544-22-19 | 150811JST11/544-3-7/150825JST17/544-22-19 |
| 150829-1472 | 6,471 | PR3428 | 544-3-7/544-22-19 | 150811JST11/544-3-7/150825JST17/544-22-19 |
| 150903-1473 | 6,276 | PR3431 | 544-14-26/544-31-9 | 150819-O-T13/544-14-26/544-31-9/150902JST16 |
| 150903-1474 | 5,810 | PR3432 | 544-14-26/544-31-9 | 150819-O-T13/544-14-26/544-31-9/150902JST16 |
| 150904-1475 | 6,589 | PR3433 | 544-14-26/544-31-9 | 150819-O-T13/544-14-26/544-31-9/150902JST16 |
| 150904-1476 | 6,072 | PR3434 | 544-14-26/544-31-9 | 150819-O-T13/544-14-26/544-31-9/150902JST16 |
| 150904-1477 | 5,783 | PR3435 | 544-14-26/544-31-9 | 150819-O-T13/544-14-26/544-31-9/150902JST16 |
| 150910-1478 | 6,745 | PR3438 | 544-14-26/544-42-19 | 150819-O-T13/544-14-26/544-42-19/150910JST16 |
| 150911-1479 | 6,174 | PR3439 | 544-14-26/544-42-19 | 150819-O-T13/544-14-26/544-42-19/150910JST16 |
| 150911-1480 | 6,109 | PR3440 | 544-14-26/544-42-19 | 150819-O-T13/544-14-26/544-42-19/150910JST16 |
| 150911-1481 | 6,169 | PR3441 | 544-14-26/544-42-19 | 150819-O-T13/544-14-26/544-42-19/150910JST16 |
| 150912-1482 | 6,212 | PR3444 | 544-14-26/544-42-19 | 150819-O-T13/544-14-26/544-42-19/150910JST16 |
| 150912-1483 | 5,977 | PR3445 | 544-14-26/544-42-19 | 150819-O-T13/544-14-26/544-42-19/150910JST16 |
| 150922-1484 | 6,365 | PR3452 | 544-14-26/544-53-27 | 150819-O-T13/544-14-26/544-53-27/150922JST17 |
| 150923-1485 | 6,252 | PR3455 | 544-14-26/544-53-27 | 150819-O-T13/544-14-26/544-53-27/150922JST17 |
| 150923-1486 | 6,481 | PR3456 | 544-14-26/544-53-27 | 150819-O-T13/544-14-26/544-53-27/150922JST17 |
| 150923-1487 | 5,859 | PR3457 | 544-14-26/544-53-27 | 150819-O-T13/544-14-26/544-53-27/150922JST17 |
| 150929-1488 | 6,252 | PR3464 | 544-14-26/544-55-25 | 150819-O-T13/544-14-26/544-55-25/150923JST16 |
| 150929-1489 | 6,015 | PR3465 | 544-14-26/544-55-25 | 150819-O-T13/544-14-26/544-55-25/150923JST16 |
| 150929-1490 | 6,535 | PR3467 | 544-14-26/544-55-25 | 150819-O-T13/544-14-26/544-55-25/150923JST16 |
| 151001-1491 | 6,371 | PR3468 | 544-14-26/544-66-19 | 150819-O-T13/544-14-26/544-66-19/151001JST17 |
| 151002-1492 | 6,306 | PR3471 | 544-14-26/544-66-19 | 150819-O-T13/544-14-26/544-66-19/151001JST17 |
| 151003-1493 | 6,198 | PR3473 | 544-44-20/544-66-19 | 150914JST10/544-44-20/544-16-19/151001JST17 |
| 151005-1494 | 6,206 | PR3474 | 544-44-20/544-55-25 | 150914JST10/544-44-20/544-55-25/150923JST16 |
| 151006-1495 | 6,303 | PR3475 | 544-44-20/544-55-25 | 150914JST10/544-44-20/544-55-25/150923JST16 |
| 151006-1496 | 6,336 | PR3476 | 544-44-20/544-72-4 | 150914JST10/544-44-20/544-72-4/151006JST17 |
| 151008-1497 | 6,403 | PR3481 | 544-44-20/544-73-8 | 150914JST10/544-44-20/544-73-8/151007JST16 |
| 151008-1498 | 6,373 | PR3482 | 544-44-20/544-72-4 | 150914JST10/544-44-20/544-72-4/151006JST17 |
| 151009-1499 | 6,532 | PR3490 | 544-44-20/544-73-8 | 150914JST10/544-44-20/544-73-8/151007JST16 |
| 151009-1500 | 6,209 | PR3491 | 544-44-20/544-73-8 | 150914JST10/544-44-20/544-73-8/151007JST16 |
| 151010-1501 | 6,228 | PR3492 | 544-44-20/544-72-4 | 150914JST10/544-44-20/544-72-4/151006JST17 |
| 151010-1502 | 6,411 | PR3493 | 544-44-20/544-72-4 | 150914JST10/544-44-20/544-72-4/151006JST17 |
| 151012-1503 | 6,045 | PR3499 | 544-44-20/544-72-4 | 150914JST10/544-44-20/544-72-4/151006JST17 |
| 151012-1504 | 6,147 | PR3500 | 544-44-20/544-73-8 | 150914JST10/544-44-20/544-73-8/151007JST16 |
| 151016-1505 | 6,182 | PR3526 | 544-44-20/544-77-21 | 150914JST10/544-44-20/544-77-21/151015JST16 |
| 151016-1506 | 6,250 | PR3527 | 544-44-20/544-77-21 | 150914JST10/544-44-20/544-77-21/151015JST16 |
| 151017-1507 | 6,492 | PR3536 | 544-44-20/544-77-21 | 150914JST10/544-44-20/544-77-21/151015JST16 |
| 151017-1508 | 6,559 | PR3537 | 544-44-20/544-77-21 | 150914JST10/544-44-20/544-77-21/151015JST16 |
| 151022-1509 | 6,007 | PR3551 | 544-44-20/544-84-20 | 150914JST10/544-44-20/544-84-20/151020MHT16 |
| 151022-1510 | 6,530 | PR3552 | 544-44-20/544-84-20 | 150914JST10/544-44-20/544-84-20/151020MHT16 |
| 151023-1511 | 5,867 | PR3553 | 544-44-20/544-84-20 | 150914JST10/544-44-20/544-84-20/151020MHT16 |
| 151023-1512 | 6,702 | PR3555 | 544-44-20/544-84-20 | 150914JST10/544-44-20/544-84-20/151020MHT16 |
| 151023-1513 | 6,441 | PR3556 | 544-78-26/544-84-20 | 151016JST12/544-78-26/544-84-20/151020MHT17 |
| 151023-1514 | 6,268 | PR3557 | 544-78-26/544-84-20 | 151016JST12/544-78-26/544-84-20/151020MHT17 |
| 151026-1515 | 6,233 | PR3558 | 544-78-26/544-84-20 | 151016JST12/544-78-26/544-84-20/151020MHT17 |
| 151026-1516 | 6,578 | PR3559 | 544-78-26/544-84-20 | 151016JST12/544-78-26/544-84-20/151020MHT17 |
| 151027-1517 | 6,185 | PR3560 | 544-78-26/544-84-20 | 151016JST12/544-78-26/544-84-20/151020MHT17 |
| 151027-1518 | 6,608 | PR3562 | 544-78-26/544-91-25 | 151016JST12/544-78-26/544-91-25/151026JST16 |
| 151029-1519 | 6,349 | PR3579 | 544-78-26/544-91-25 | 151016JST12/544-78-26/544-91-25/151026JST16 |
| 151029-1520 | 6,276 | PR3581 | 544-78-26/544-91-25 | 151016JST12/544-78-26/544-91-25/151026JST16 |
| 151030-1521 | 6,373 | PR3585 | 544-78-26/544-91-25 | 151016JST12/544-78-26/544-91-25/151026JST16 |
| 151031-1522 | 6,805 | PR3586 | 544-78-26/544-91-25 | 151016JST12/544-78-26/544-91-25/151026JST16 |
| 151106-1523 | 6,166 | PR3588 | 544-78-26/544-105-17 | 151016JST12/544-78-26/544-105-17/151105JST16 |
| 151106-1524 | 6,023 | PR3589 | 544-78-26/544-105-17 | 151016JST12/544-78-26/544-105-17/151105JST16 |
| 151106-1525 | 6,169 | PR3590 | 544-78-26/544-105-17 | 151016JST12/544-78-26/544-105-17/151105JST16 |
| 151107-1526 | 6,026 | PR3591 | 544-78-26/544-105-17 | 151016JST12/544-78-26/544-105-17/151105JST16 |
| 151112-1527 | 6,225 | PR3593 | 544-78-26/544-113-18 | 151016JST12/544-78-26/544-113-18/151112JST17 |
| 151113-1528 | 6,287 | PR3595 | 544-78-26/544-113-18 | 151016JST12/544-78-26/544-113-18/151112JST17 |
| 151113-1529 | 6,565 | PR3596 | 544-78-26/544-113-18 | 151016JST12/544-78-26/544-113-18/151112JST17 |



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**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 151114-1530 | 6,293 | PR3597 | 544-78-26/544-113-18 | 151016JST12/544-78-26/544-113-18/151112JST17 |
| 151118-1531 | 6,155 | PR3599 | 544-78-26/544-118-14 | 151016JST12/544-78-26/544-118-14/151116JST16 |
| 151118-1532 | 5,991 | PR3600 | 544-107-10/544-118-14 | 151106JST10/544-107-10/544-118-14/151116JST16 |
| 151118-1533 | 6,266 | PR3601 | 544-107-10/544-118-14 | 151106JST10/544-107-10/544-118-14/151116JST16 |
| 151118-1534 | 6,309 | PR3602 | 544-107-10/544-113-18 | 151106JST10/544-107-10/544-113-18/151112JST17 |
| 151119-1535 | 5,878 | PR3603 | 544-107-10/544-118-14 | 151106JST10/544-107-10/544-118-14/151116JST16 |
| 151124-1536 | 6,182 | PR3606 | 544-107-10/544-127-27 | 151106JST10/544-107-10/544-127-27/151123JST17 |
| 151125-1537 | 6,023 | PR3607 | 544-107-10/544-127-27 | 151106JST10/544-107-10/544-127-27/151123JST17 |
| 151125-1538 | 5,937 | PR3608 | 544-107-10/544-127-27 | 151106JST10/544-107-10/544-127-27/151123JST17 |
| 151125-1539 | 6,624 | PR3609 | 544-107-10/544-127-27 | 151106JST10/544-107-10/544-127-27/151123JST17 |
| 151203-1540 | 5,950 | PR3611 | 544-107-10/544-137-22 | 151106JST10/544-107-10/544-137-22/151202JST17 |
| 151204-1541 | 6,066 | PR3612 | 544-107-10/544-137-22 | 151106JST10/544-107-10/544-137-22/151202JST17 |
| 151205-1542 | 6,223 | PR3613 | 544-107-10/544-137-22 | 151106JST10/544-107-10/544-137-22/151202JST17 |
| 151205-1543 | 6,152 | PR3614 | 544-107-10/544-137-22 | 151106JST10/544-107-10/544-137-22/151202JST17 |
| 151205-1544 | 6,099 | PR3615 | 544-107-10/544-140-19 | 151106JST10/544-107-10/544-140-19/151204JST13 |
| 151205-1545 | 5,931 | PR3616 | 544-107-10/544-140-19 | 151106JST10/544-107-10/544-140-19/151204JST13 |
| 151205-1546 | 6,120 | PR3617 | 544-107-10/544-140-16 | 151106JST10/544-107-10/544-140-16/151204JST12 |
| 151209-1547 | 6,212 | PR3629 | 544-107-10/544-140-16 | 151106JST10/544-107-10/544-140-16/151204JST12 |
| 151211-1548 | 6,287 | PR3634 | 544-107-10/544-148-4 | 151106JST10/544-107-10/544-148-4/151211JST13 |
| 151212-1549 | 6,198 | PR3636 | 544-107-10/544-148-4 | 151106JST10/544-107-10/544-148-4/151211JST13 |
| 151215-1550 | 6,139 | PR3637 | 544-107-10/544-151-10 | 151106JST10/544-107-10/151215JST12/544-151-10 |
| 151215-1551 | 6,112 | PR3638 | 544-107-10/544-151-10 | 151106JST10/544-107-10/151215JST12/544-151-10 |
| 151216-1552 | 5,907 | PR3639 | 544-78-26/544-152-25 | 151016JST12/544-78-26/151216JST13/544-152-25 |
| 151219-1553 | 5,756 | PR3640 | 544-149-20/544-156-21 | 151214JST10/544-149-20/544-156-21/151218JST13 |
| 151221-1554 | 5,880 | PR3641 | 544-149-20/544-156-18 | 151214JST10/544-149-20/544-156-18/151218JST10 |
| 151222-1555 | 6,058 | PR3642 | 544-149-20/544-161-16 | 151214JST10/544-149-20/544-161-16/151222JST11 |
| 160101-1556 | 6,104 | PR3648 | 544-149-20/544-170-26 | 151214JST10/544-149-20/544-170-26/151230JST12 |
| 160102-1557 | 6,112 | PR3649 | 544-149-20/544-170-26 | 151214JST10/544-149-20/544-170-26/151230JST12 |
| 160105-1558 | 5,993 | PR3657 | 544-149-20/544-171-1 | 151214JST10/544-149-20/544-171-1/151230JST17 |
| 160106-1559 | 5,481 | PR3662 | 544-149-20/544-171-1 | 151214JST10/544-149-20/544-171-1/151230JST17 |
| 160108-1560 | 6,003 | PR3665 | 544-149-20/544-171-1 | 151214JST10/151230JST17 |
| 160108-1561 | 5,731 | PR3666 | 544-149-20/544-180-18 | 151224JST10/160107JST12 |
| 160109-1562 | 6,079 | PR3367 | 544-149-20/544-171-1 | 151214JST10/151230JST17 |
| 160107-1563 | 5,781 | PR3663 | 544-149-20/544-171-1 | 151214JST10/151230JST17 |
| 160114-1564 | 5,923 | PR3681 | 544-149-20/544-188-26 | 151214JST10/160113JST17 |
| 160119-1565 | 6,094 | PR3687 | 544-149-20/544-195-16 | 151214JST10/160118JST16 |
| 160119-1566 | 5,658 | PR3688 | 544-149-20/544-195-19 | 151214JST10/160118JST11 |
| 160115-1567 | 5,716 | PR3685 | 544-149-20/544-188-26 | 151214JST10/160113JST17 |
| 160116-1568 | 5,645 | PR3687 | 544-149-20/544-188-26 | 151214JST10/160113JST17 |
| 160120-1569 | 5,711 | PR3691 | 544-149-20/544-195-16 | 151214JST10/160118JST16 |
| 160121-1570 | 5,615 | PR3694 | 544-149-20/544-195-16 | 151214JST10/160118JST16 |
| 160128-1571 | 5,628 | PR3723 | 544-149-20/545-2-14 | 151214JST10/160128JST16 |
| 160129-1572 | 6,024 | PR3733 | 544-149-20/545-2-14 | 151214JST10/160128JST16 |
| 160130-1574 | 5,916 | PR3737 | 544-198-27/545-2-14 | 160121JST10/160128JST16 |
| 160201-1573 | 5,599 | PR3738 | 544-198-27/545-2-14 | 160121JST10/160128JST16 |
| 160202-1575 | 5,896 | PR3744 | 544-198-27/545-8-16 | 160121JST10/160201JST17 |
| 160203-1576 | 5,679 | PR3749 | 544-198-27/545-2-14 | 160121JST10/160128JST16 |
| 160204-1577 | 5,741 | PR3751 | 544-198-27/545-8-16 | 160121JST10/160201JST17 |
| 160204-1578 | 6,026 | PR3750 | 544-198-27/545-8-16 | 160121JST10/160201JST17 |
| 160205-1578A | 5,571 | PR3754 | 544-198-27/545-11-27 | 160121JST10/160204JST16 |
| 160206-1579 | 6,016 | PR3756 | 544-198-27/545-11-27 | 160121JST10/160204JST16 |
| 160206-1580 | 5,881 | PR3755 | 544-198-27/545-11-27 | 160121JST10/160204JST16 |
| 160207-1581 | 5,771 | PR3757 | 544-198-27/545-11-27 | 160121JST10/160204JST16 |
| 160208-1582 | 5,644 | PR3758 | 544-198-27/545-19-5 | 160121JST10/160208JST16 |
| 160212-1583 | 5,407 | PR3761 | 544-198-27/545-23-22 | 160121JST10/160211JST17 |
| 160212-1584 | 5,709 | PR3762 | 544-198-27/545-23-22 | 160121JST10/160211JST17 |
| 160212-1585 | 5,422 | PR3763 | 544-198-27/545-23-22 | 160121JST10/160211JST17 |
| 160213-1586 | 5,437 | PR3764 | 544-198-27/545-26-8 | 160121JST10/160212JST16 |
| 160213-1587 | 5,437 | PR3765 | 544-198-27/545-26-8 | 160121JST10/160212JST16 |
| 160213-1588 | 5,437 | PR3766 | 544-198-27/545-26-8 | 160121JST10/160212JST16 |
| 160213-1589 | 5,606 | PR3767 | 544-198-27/545-26-8 | 160121JST10/160212JST16 |
| 160215-1590 | 5,893 | PR3768 | 544-198-27/545-26-8 | 160121JST10/160212JST16 |
| 160215-1591 | 5,589 | PR3770 | 544-198-27/545-30-13 | 160121JST10/160215JST17 |
| 160219-1592 | 5,769 | PR3790 | 545-19-13/545-30-13 | 160208JST10/160215JST17 |



ED_002427A_00000247-00016

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 160219-1593 | 5,782 | PR3789 | 545-19-13/545-30-13 | 160208JST10/160215JST17 |
| 160219-1594 | 5,816 | PR3788 | 545-19-13/545-30-13 | 160208JST10/160215JST17 |
| 160220-1595 | 5,674 | PR3786 | 545-19-13/545-36-17 | 160208JST10/160219JST16 |
| 160220-1596 | 5,700 | PR3792 | 545-19-13/545-36-17 | 160208JST10/160219JST16 |
| 160220-1597 | 5,772 | PR3791 | 545-19-13/545-30-13 | 160208JST10/160215JST17 |
| 160221-1598 | 5,759 | PR3788 | 545-19-13/545-36-17 | 160208JST10/160219JST16 |
| 160221-1599 | 5,772 | PR3787 | 545-19-13/545-36-17 | 160208JST10/160219JST16 |
| 160224-1600 | 6,040 | PR3795 | 545-19-13/545-31-14 | 160208JST10/160216JST11 |
| 160225-1601 | 5,537 | PR3797 | 545-19-13/545-45-13 | 160208JST10/160225JST17 |
| 160225-1602 | 5,607 | PR3796 | 545-19-13/545-45-13 | 160208JST10/160225JST17 |
| 160226-1603 | 5,749 | PR3798 | 545-19-13/545-45-13 | 160208JST10/160225JST17 |
| 160226-1604 | 6,078 | PR3799 | 545-19-13/545-45-13 | 160208JST10/160225JST17 |
| 160301-1605 | 5,986 | PR3805 | 545-19-13/545-45-13 | 160208JST10/160225JST17 |
| 160301-1606 | 5,715 | PR3806 | 545-19-13/545-45-13 | 160208JST10/160225JST17 |
| 160302-1607 | 6,066 | PR3813 | 545-19-13/545-53-20 | 160208JST10/160301MHT17 |
| 160302-1608 | 5,671 | PR3814 | 545-19-13/545-53-20 | 160208JST10/160301MHT17 |
| 160304-1609 | 5,705 | PR3820 | 545-19-13/545-53-20 | 160208JST10/160301MHT17 |
| 160304-1610 | 5,903 | PR3822 | 545-19-13/545-53-20 | 160208JST10/160301MHT17 |
| 160303-1611 | 5,970 | PR3819 | 545-19-13/545-53-20 | 160208JST10/160301MHT17 |
| 160304-1612 | 6,078 | PR3825 | 545-45-27/545-53-20 | 160225JST10/160301MHT17 |
| 160309-1613 | 6,083 | PRNA | 545-45-27/545-53-20 | 160225JST10/160301MHT16 |
| 160309-1614 | 5,962 | PRNA | 545-45-27/545-53-20 | 160225JST10/160301MHT16 |
| 160310-1615 | 5,785 | PR3832 | 545-45-27/545-53-20 | 160225JST10/160301MHT16 |
| 160311-1616 | 5,575 | PR3836 | 545-45-27/545-53-20 | 160225JST10/160301MHT16 |
| 160317-1617 | 6,075 | PR3852 | 545-45-27/545-62-8 | 160225JST10/160307JST17 |
| 160317-1618 | 5,792 | PR3853 | 545-45-27/545-62-8 | 160225JST10/160307JST17 |
| 160318-1619 | 5,735 | PR3855 | 545-45-27/545-62-8 | 160225JST10/160307JST17 |
| 160321-1620 | 5,703 | PR3859 | 545-45-27/545-79-22 | 160225JST10/160318JST16 |
| 160322-1621 | 5,675 | PR3862 | 545-45-27/545-79-22 | 160225JST10/160318JST16 |
| 160324-1622 | 5,970 | PR3860 | 545-45-27/545-84-7 | 160225JST10/160322JST17 |
| 160325-1623 | 6,426 | PR3867 | 545-45-27/545-84-7 | 160225JST10/160322JST17 |
| 160330-1624 | 5,355 | PR3896 | 545-45-27/545-84-7 | 160225JST10/160322JST17 |
| 160331-1625 | 5,845 | PR3905 | 545-45-27/545-84-7 | 160225JST10/160322JST17 |
| 160401-1626 | 6,054 | PR3908 | 545-45-27/545-84-7 | 160225JST10/160322JST17 |
| 160401-1627 | 5,813 | PR3911 | 545-45-27/545-84-7 | 160225JST10/160322JST17 |
| 160402-1628 | 5,900 | PR3909 | 545-45-27/545-79-22 | 160225JST10/160318JST16 |
| 160402-1629 | 5,984 | PR3910 | 545-45-27/545-79-22 | 160225JST10/160318JST16 |
| 160403-1630 | 6,120 | PR3914 | 545-45-27/545-101-9 | 160225JST10/160404JST11 |
| 160405-1631 | 5,821 | PR3917 | 545-45-27/545-101-20 | 160225JST10/160404JST16 |
| 160409-1632 | 5,263 | PR3919 | 545-92-28/545-101-20 | 160329JST13/160404JST16 |
| 160409-1633 | 5,312 | PR3920 | 545-92-28/545-101-20 | 160329JST13/160404JST16 |
| 160411-1634 | 5,688 | PR3922 | 545-92-28/545-101-20 | 160329JST13/160404JST16 |
| 160412-1635 | 5,506 | PR3926 | 545-92-28/545-107-24 | 160329JST13/160408JST17 |
| 160414-1636 | 5,504 | PR3935 | 545-92-28/545-113-24 | 160329JST13/160412JST16 |
| 160415-1637 | 5,548 | PR3939 | 545-92-28/545-113-24 | 160329JST13/160412JST16 |
| 160416-1638 | 5,475 | PR3943 | 545-92-28/545-117-27 | 160329JST13/160418JST16 |
| 160416-1639 | 5,540 | PR3945 | 545-92-28/545-113-24 | 160329JST13/160412JST16 |
| 160416-1640 | 5,540 | PR3944 | 545-92-28/545-117-27 | 160329JST13/160418JST16 |
| 160421-1641 | 5,402 | PR3945 | 545-92-28/545-117-27 | 160329JST13/160418JST16 |
| 160422-1642 | 5,458 | PR3946 | 545-92-28/545-117-27 | 160329JST13/160418JST16 |
| 160423-1643 | 5,368 | PR3948 | 545-92-28/545-117-27 | 160329JST13/160418JST16 |
| 160425-1644 | 5,771 | PR3949 | 545-92-28/545-121-12 | 160329JST13/160422JST17 |
| 160426-1645 | 5,409 | PR3950 | 545-92-28/545-121-12 | 160329JST13/160422JST17 |
| 160427-1646 | 5,613 | PR3951 | 545-92-28/545-121-12 | 160329JST13/160422JST17 |
| 160428-1647 | 5,511 | PR3952 | 545-92-28/545-121-12 | 160329JST13/160422JST17 |
| 160510-1648 | 5,620 | PR3965 | 545-92-28/545-139-15 | 160329JST13/160509JST17 |
| 160511-1649 | 5,353 | PR3966 | 545-92-28/545-139-15 | 160329JST13/160509JST17 |
| 160512-1650 | 5,200 | PR3967 | 545-92-28/545-139-15 | 160329JST13/160509JST17 |
| 160513-1651 | 5,467 | PR3969 | 545-92-28/545-121-12 | 160329JST13/160422JST17 |
| 160513-1652 | 5,768 | PR3970 | 545-130-27/545-139-15 | 160502JST16/160509JST17 |
| 160517-1653 | 5,993 | PR3972 | 545-130-27/545-151-7 | 160502JST16/160516JST17 |
| 160518-1654 | 6,019 | PR3973 | 545-130-27/545-151-7 | 160502JST16/160516JST17 |
| 160519-1655 | 5,554 | PR3974 | 545-130-27/545-151-7 | 160502JST16/160516JST17 |
| 160520-1656 | 5,861 | PR3976 | 545-130-27/545-151-7 | 160502JST16/160516JST17 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 160520-1657 | 5,670 | PR3977 | 545-130-27/545-151-7 | 160502JST16/160516JST17 |
| 160524-1658 | 6,068 | PR3986 | 545-130-27/545-161-25 | 160502JST16/160523JST17 |
| 160525-1659 | 6,127 | PR3996 | 545-130-27/545-161-25 | 160502JST16/160523JST17 |
| 160526-1660 | 6,171 | PR4002 | 545-130-27/545-161-25 | 160502JST16/160523JST17 |
| 160526-1661 | 6,011 | PR4003 | 545-130-27/545-161-25 | 160502JST16/160523JST17 |
| 160527-1662 | 6,013 | PR4005 | 545-130-27/545-161-25 | 160502JST16/160523JST17 |
| 160527-1663 | 5,458 | PR4006 | 545-130-27/545-166-19 | 160502JST16/160527MHT13 |
| 160603-1664 | 6,414 | PR4021 | 545-130-27/545-174-6 | 160502JST16/160602JST17 |
| 160604-1665 | 5,882 | PR4022 | 545-130-27/545-174-6 | 160502JST16/160602JST17 |
| 160606-1666 | 5,874 | PR4026 | 545-130-27/545-174-6 | 160502JST16/160602JST17 |
| 160608-1667 | 5,980 | PR4034 | 545-130-27/545-174-6 | 160502JST16/160602JST17 |
| 160609-1668 | 6,460 | PR4037 | 545-130-27/545-174-6 | 160502JST16/160602JST17 |
| 160609-1669 | 6,122 | PR4038 | 545-130-27/545-174-6 | 160502JST16/160602JST17 |
| 160609-1670 | 6,086 | PR4039 | 545-130-27/545-180-20 | 160502JST16/160607JST16 |
| 160609-1671 | 6,153 | PR4040 | 545-130-27/545-180-20 | 160502JST16/160607JST16 |
| 160613-1672 | 6,063 | PR4054 | 545-178-28/545-180-20 | 160606JST12/160607JST16 |
| 160613-1673 | 5,974 | PR4055 | 545-178-28/545-180-20 | 160606JST12/160607JST16 |
| 160618-1674 | 5,923 | PR4059 | 545-178-28/545-189-25 | 160606JST12/160614JST17 |
| 160618-1675 | 6,144 | PR4060 | 545-178-28/545-189-25 | 160606JST12/160614JST17 |
| 160618-1676 | 5,763 | PR4061 | 545-178-28/545-189-25 | 160606JST12/160614JST17 |
| 160620-1677 | 6,070 | PR4062 | 545-178-28/545-189-25 | 160606JST12/160614JST17 |
| 160621-1678 | 6,172 | PR4064 | 545-178-28/545-189-25 | 160606JST12/160614JST17 |
| 160622-1679 | 6,174 | PR4065 | 545-178-28/545-194-16 | 160606JST12/160617JST16 |
| 160622-1680 | 5,758 | PR4066 | 545-178-28/545-194-16 | 160606JST12/160617JST16 |
| 160623-1681 | 5,774 | PR4067 | 545-178-28/545-194-16 | 160606JST12/160617JST16 |
| 160624-1682 | 6,002 | PR | 545-178-28/545-194-16 | 160606JST12/160617JST16 |
| 160625-1683 | 6,017 | PR | 545-178-28/545-194-16 | 160606JST12/160617JST16 |
| 160629-1684 | 5,553 | PR4070 | 545-178-28/545-207-25 | 160606JST12/160628JST16 |
| 160629-1685 | 5,974 | PR4071 | 545-178-28/545-207-25 | 160606JST12/160628JST16 |
| 160630-1686 | 5,855 | PR4073 | 545-178-28/545-207-25 | 160606JST12/160628JST16 |
| 160630-1687 | 6,281 | PR4074 | 545-178-28/545-207-25 | 160606JST12/160628JST16 |
| 160630-1688 | 5,677 | PR4077 | 545-178-28/545-207-25 | 160606JST12/160628JST16 |
| 160701-1689 | 5,860 | PR4078 | 545-178-28/545-207-25 | 160606JST12/160628JST16 |
| 160701-1690 | 6,276 | PR4079 | 545-178-28/545-206-27 | 160606JST12/160627JST17 |
| 160705-1691 | 5,956 | PR4080 | 545-178-28/545-206-27 | 160606JST12/160627JST17 |
| 160705-1692 | 5,658 | PR4081 | 545-208-27/546-10-5 | 160629JST13/160705JST16 |
| 160706-1693 | 5,785 | PR4084 | 545-208-27/546-10-5 | 160629JST13/160705JST16 |
| 160706-1694 | 6,238 | PR4085 | 545-208-27/545-206-27 | 160629JST13/160627JST17 |
| 160706-1695 | 5,842 | PR4086 | 545-208-27/546-10-5 | 160629JST13/160705JST16 |
| 160706-1696 | 5,692 | PR4087 | 545-208-27/545-206-27 | 160629JST13/160627JST17 |
| 160707-1697 | 5,875 | PR4088 | 545-208-27/546-10-5 | 160629JST13/160705JST16 |
| 160708-1698 | 6,271 | PR4092 | 545-208-27/545-206-27 | 160629JST13/160627JST17 |
| 160708-1699 | 6,129 | PR4093 | 545-208-27/545-206-27 | 160629JST13/160627JST17 |
| 160708-1700 | 6,225 | PR4094 | 545-208-27/546-10-5 | 160629JST13/160705JST16 |
| 160711-1701 | 5,756 | PR4095 | 545-208-27/546-11-25 | 160629JST13/160706JST35 |
| 160711-1702 | 5,839 | PR4096 | 545-208-27/546-11-25 | 160629JST13/160706JST35 |
| 160712-1703 | 5,959 | PR4097 | 545-208-27/546-11-22 | 160629JST13/160706JST36 |
| 160713-1704 | 5,751 | PR4099 | 545-208-27/546-11-22 | 160629JST13/160706JST36 |
| 160713-1705 | 5,850 | PR4100 | 545-208-27/546-11-25 | 160629JST13/160706JST35 |
| 160715-1706 | 5,670 | PR4107 | 545-208-27/546-19-3 | 160629JST13/160711JST17 |
| 160715-1707 | 5,611 | PR4109 | 545-208-27/546-19-3 | 160629JST13/160711JST17 |
| 160718-1708 | 5,786 | PR4110 | 545-208-27/546-19-3 | 160629JST13/160711JST17 |
| 160720-1709 | 5,890 | PR4126 | 545-208-27/546-19-3 | 160629JST13/160711JST17 |
| 160721-1710 | 5,690 | PR4140 | 545-208-27/546-19-3 | 160629JST13/160711JST17 |
| 160727-1711 | 5,862 | PR4155 | 545-208-27/546-23-22 | 160629JST13/160714MHT16 |
| 160728-1712 | 6,232 | PR4162 | 546-30-15/546-23-22 | 160718JST13/160714MHT16 |
| 160728-1713 | 6,700 | PR4166 | 546-30-15/546-41-27 | 160718JST13/160727JST17 |
| 160728-1714 | 6,311 | PR4168 | 546-30-15/546-41-27 | 160718JST13/160727JST17 |
| 160729-1715 | 6,232 | PR4172 | 546-30-15/546-41-27 | 160718JST13/160727JST17 |
| 160729-1716 | 6,360 | PR4174 | 546-30-15/546-41-27 | 160718JST13/160727JST17 |
| 160729-1717 | 6,259 | PR4177 | 546-30-15/546-41-27 | 160718JST13/160727JST17 |
| 160730-1718 | 6,344 | PR4176 | 546-30-15/546-41-27 | 160718JST13/160727JST17 |
| 160802-1719 | 6,118 | PR4183 | 546-30-15/546-49-7 | 160718JST13/160802JST16 |
| 160803-1720 | 6,622 | PR4185 | 546-30-15/546-49-7 | 160718JST13/160802JST16 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 160806-1721 | 6,025 | PR4186 | 546-30-15/546-49-7 | 160718JST13/160802JST16 |
| 160806-1722 | 5,916 | PR4187 | 546-30-15/546-49-7 | 160718JST13/160802JST16 |
| 160806-1723 | 6,292 | PR4188 | 546-30-15/546-49-7 | 160718JST13/160802JST16 |
| 160810-1724 | 6,232 | PR4191 | 546-30-15/546-62-20 | 160718JST13/160810JST16 |
| 160810-1725 | 6,330 | PR4192 | 546-30-15/546-62-20 | 160718JST13/160810JST16 |
| 160811-1726 | 6,112 | PR4194 | 546-30-15/546-62-20 | 160718JST13/160810JST16 |
| 160811-1727 | 6,238 | PR4195 | 546-30-15/546-62-20 | 160718JST13/160810JST16 |
| 160812-1728 | 5,930 | PR4198 | 546-30-15/546-62-20 | 160718JST13/160810JST16 |
| 160813-1729 | 5,706 | PR4199 | 546-59-20/546-64-21 | 160808JST11/160811JST36 |
| 160813-1730 | 6,176 | PR4200 | 546-59-20/546-64-21 | 160808JST11/160811JST36 |
| 160815-1731 | 6,347 | PR4201 | 546-59-20/546-59-17 | 160808JST11/160808JST17 |
| 160817-1732 | 6,067 | PR4204 | 546-59-20/546-59-17 | 160808JST11/160808JST17 |
| 160817-1733 | 6,326 | PR4205 | 546-59-20/546-59-17 | 160808JST11/160808JST17 |
| 160819-1734 | 6,065 | PR4213 | 546-59-20/546-59-17 | 160808JST11/160808JST17 |
| 160819-1735 | 6,241 | PR4214 | 546-59-20/546-59-17 | 160808JST11/160808JST17 |
| 160819-1736 | 6,239 | PR4215 | 546-59-20/546-69-9 | 160808JST11/160815JST16 |
| 160820-1737 | 6,054 | PR4218 | 546-59-20/546-69-9 | 160808JST11/160815JST16 |
| 160822-1738 | 6,173 | PR4220 | 546-59-20/546-69-9 | 160808JST11/160815JST16 |
| 160823-1739 | 6,166 | PR4224 | 546-59-20-546-69-9 | 160808JST11/160815JST16 |
| 160902-1740 | 6,198 | PR4239 | 546-59-20/546-91-19 | 160808JST11/160831JST16 |
| 160902-1741 | 5,847 | PR4241 | 546-59-20/546-91-19 | 160808JST11/160831JST16 |
| 160902-1742 | 6,092 | PR4242 | 546-59-20/546-91-19 | 160808JST11/160831JST16 |
| 160906-1743 | 6,141 | PR4244 | 546-59-20/546-91-19 | 160808JST11/160831JST16 |
| 160906-1744 | 5,961 | PR4246 | 546-59-20/546-91-19 | 160808JST11/160831JST16 |
| 160914-1745 | 6,600 | PR4249 | 546-59-20/546-105-23 | 160808JST11/160912JST16 |
| 160914-1746 | 5,923 | PR4250 | 546-59-20/546-105-23 | 160808JST11/160912JST16 |
| 160915-1747 | 6,388 | PR4255 | 546-59-20/546-105-23 | 160808JST11/160912JST16 |
| 160915-1748 | 6,054 | PR4257 | 546-59-20/546-105-23 | 160808JST11/160912JST16 |
| 160916-1749 | 6,027 | PR4264 | 546-105-28/546-107-9 | 160912JST12/160914JST17 |
| 160916-1750 | 5,851 | PR4265 | 546-105-28/546-107-9 | 160912JST12/160914JST17 |
| 160917-1751 | 5,851 | PR4269 | 546-105-28/546-107-9 | 160912JST12/160914JST17 |
| 160919-1752 | 5,642 | PR4273 | 546-105-28/546-112-4 | 160912JST12/160919JST12 |
| 160920-1753 | 4,750 | PR4283 | 546-105-28/546-107-9 | 160912JST12/160914JST17 |
| 160927-1754 | 5,464 | PR4304 | 546-105-28/546-122-8 | 160912JST12/160926JST17 |
| 160930-1755 | 5,723 | PR4307 | 546-105-28/546-122-8 | 160912JST12/160926JST17 |
| 160930-1756 | 5,689 | PR4308 | 546-105-28/546-122-8 | 160912JST12/160926JST17 |
| 161001-1757 | 5,744 | PR4309 | 546-105-28/546-122-8 | 160912JST12/160926JST17 |
| 161007-1758 | 5,493 | PR4311 | 546-105-28/546-136-14 | 160912JST12/161006JST11 |
| 161008-1759 | 5,752 | PR4314 | 546-105-28/546-136-17 | 160912JST12/161006JST13 |
| 161010-1760 | 5,781 | PR4313 | 546-105-28/546-136-14 | 160912JST12/161006JST11 |
| 161010-1761 | 6,069 | PR4315 | 546-105-28/546-140-22 | 160912JST12/161010JST10 |
| 161011-1762 | 5,477 | PR4317 | 546-105-28/546-141-22 | 160912JST12/161011JST12 |
| 161012-1763 | 6,343 | PR4321 | 546-105-28/546-136-7 | 160912JST12/161006JST17 |
| 161012-1764 | 5,870 | PR4322 | 546-105-28/546-136-7 | 160912JST12/161006JST17 |
| 161013-1765 | 5,671 | PR4325 | 546-105-28/546-136-7 | 160912JST12/161006JST17 |
| 161014-1766 | 5,904 | PR4326 | 546-105-28/546-136-7 | 160912JST12/161006JST17 |
| 161017-1767 | 6,239 | PR4327 | 546-105-28/546-136-7 | 160912JST12/161006JST17 |
| 161018-1768 | 5,967 | PR4328 | 546-105-28/546-148-7 | 160912JST12/161017JST16 |
| 161019-1769 | 5,812 | PR4329 | 546-145-19/546-148-7 | 161014JST12/161017JST16 |
| 161020-1770 | 5,890 | PR4330 | 546-145-19/546-148-7 | 161014JST12/161017JST16 |
| 161020-1771 | 6,232 | PR4331 | 546-145-19/546-148-7 | 161014JST12/161017JST16 |
| 161021-1772 | 5,650 | PR4332 | 546-145-19/546-148-7 | 161014JST12/161017JST16 |
| 161021-1773 | 6,053 | PR4333 | 546-145-19/546-151-6 | 161014JST12/161020JST17 |
| 161024-1774 | 6,019 | PR4334 | 546-145-19/546-151-6 | 161014JST12/161020JST17 |
| 161025-1775 | 6,311 | PR4335 | 546-145-19/546-151-6 | 161014JST12/161020JST17 |
| 161026-1776 | 6,048 | PR4336 | 546-145-19/546-151-6 | 161014JST12/161020JST17 |
| 161027-1777 | 6,001 | PR4337 | 546-145-19/546-151-6 | 161014JST12/161020JST17 |
| 161110-1778 | 5,806 | PR4380 | 546-145-19/546-171-15 | 161014JST12/161108JST17 |
| 161111-1779 | 5,724 | PR4384 | 546-145-19/546-171-15 | 161014JST12/161108JST17 |
| 161111-1780 | 5,595 | PR4385 | 546-145-19/546-171-15 | 161014JST12/161108JST17 |
| 161112-1781 | 6,145 | PR4388 | 546-145-19/546-171-15 | 161014JST12/161108JST17 |
| 161123-1782 | 6,016 | PR4393 | 546-145-19/546-188-3 | 161014JST12/161122JST17 |
| 161123-1783 | 5,977 | PR4394 | 546-145-19/546-188-3 | 161014JST12/161122JST17 |
| 161126-1784 | 5,972 | PR4395 | 546-173-5/546-188-3 | 161109JST12/161122JST17 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 161129-1785 | 5,901 | PR4398 | 546-145-19/546-197-10 | 161014JST12/161129JST17 |
| 161129-1786 | 5,866 | PR4399 | 546-145-19/546-197-10 | 161014JST12/161129JST17 |
| 161130-1787 | 5,972 | PR4401 | 546-145-19/546-197-10 | 161014JST12/161129JST17 |
| 161201-1788 | 6,064 | PR4402 | 546-145-19/546-197-10 | 161014JST12/161129JST17 |
| 161202-1789 | 6,161 | PR4406 | 546-145-19/546-197-10 | 161014JST12/161129JST17 |
| 161207-1790 | 6,443 | PR4420 | 546-173-5/546-197-7 | 161109JST12/161129JST16 |
| 161208-1791 | 6,435 | PR4426 | 546-173-5/546-197-7 | 161109JST12/161129JST16 |
| 161208-1792 | 6,130 | PR4427 | 546-173-5/546-197-7 | 161109JST12/161129JST16 |
| 161208-1793 | 6,380 | PR4428 | 546-173-5/546-197-7 | 161109JST12/161129JST16 |
| 161209-1794 | 6,486 | PR4430 | 546-173-5/546-208-6 | 161109JST12/161206JST17 |
| 161209-1795 | 6,225 | PR4431 | 546-173-5/546-197-7 | 161109JST12/161129JST16 |
| 161209-1796 | 6,315 | PR4432 | 546-173-5/546-208-6 | 161109JST12/161206JST17 |
| 161213-1797 | 6,135 | PR4442 | 546-173-5/546-208-6 | 161109JST12/161206JST17 |
| 161214-1798 | 5,793 | PR4447 | 546-173-5/546-208-6 | 161109JST12/161206JST17 |
| 161214-1799 | 6,247 | PR4448 | 546-173-5/546-208-6 | 161109JST12/161206JST17 |
| 161215-1800 | 5,953 | PR4451 | 546-173-5/547-9-18 | 161109JST12/161213JST16 |
| 161215-1801 | 6,293 | PR4453 | 546-173-5/547-9-18 | 161109JST12/161213JST16 |
| 161215-1802 | 6,331 | PR4454 | 546-173-5/547-9-18 | 161109JST12/161213JST16 |
| 161215-1803 | 6,361 | PR4455 | 546-173-5/547-9-18 | 161109JST12/161213JST16 |
| 161216-1804 | 5,923 | PR4460 | 545-173-5/547-9-18 | 161109JST12/161213JST16 |
| 161216-1805 | 5,825 | PR4461 | 545-173-5/547-13-19 | 161109JST12/161215JST17 |
| 161217-1806 | 6,157 | PR4462 | 545-173-5/547-13-19 | 161109JST12/161215JST17 |
| 161217-1807 | 6,386 | PR4463 | 545-173-5/547-13-19 | 161109JST12/161215JST17 |
| 161219-1808 | 6,418 | PR4464 | 545-173-5/547-13-19 | 161109JST12/161215JST17 |
| 161221-1809 | 5,977 | PR4469 | 547-14-23/547-19-27 | 161216JST12/161220JST16 |
| 161221-1810 | 6,008 | PR4470 | 547-14-23/547-19-27 | 161216JST12/161220JST16 |
| 161221-1811 | 5,880 | PR4471 | 547-14-23/547-19-27 | 161216JST12/161220JST16 |
| 161222-1812 | 5,565 | PR4474 | 547-14-23/547-20-3 | 161216JST12/161220JST17 |
| 161222-1813 | 5,720 | PR4475 | 547-14-23/547-19-27 | 161216JST12/161220JST16 |
| 161222-1814 | 6,037 | PR4476 | 547-14-23/547-19-27 | 161216JST12/161220JST16 |
| 161222-1815 | 5,888 | PR4477 | 547-14-23/547-20-3 | 161216JST12/161220JST17 |
| 161223-1816 | 5,752 | PR4480 | 547-14-23/547-20-3 | 161216JST12/161220JST17 |
| 161223-1817 | 5,707 | PR4481 | 547-14-23/547-20-3 | 161216JST12/161220JST17 |
| 161223-1818 | 5,814 | PR4482 | 547-14-23/547-20-3 | 161216JST12/161220JST17 |
| 161229-1819 | 5,845 | PR4491 | 547-14-23/547-26-18 | 161216JST12/161228JST16 |
| 161230-1820 | 5,952 | PR4496 | 547-14-23/547-26-18 | 161216JST12/161228JST16 |
| 161230-1821 | 6,135 | PR4495 | 547-14-23/547-26-18 | 161216JST12/161228JST16 |
| 161230-1822 | 5,727 | PR4497 | 547-14-23/547-26-18 | 161216JST12/161228JST16 |
| 161231-1823 | 6,237 | PR4498 | 547-14-23/547-26-18 | 161216JST12/161228JST16 |
| 170112-1824 | 6,032 | PR4516 | 547-14-23/547-37-16 | 161216JST12/170109JST16 |
| 170112-1825 | 5,980 | PR4517 | 547-14-23/547-37-16 | 161216JST12/170109JST16 |
| 170112-1826 | 5,956 | PR4518 | 547-14-23/547-37-16 | 161216JST12/170109JST16 |
| 170113-1827 | 6,069 | PR4521 | 547-14-23/547-40-17 | 161216JST12/170111JST17 |
| 170113-1828 | 5,967 | PR4522 | 547-14-23/547-37-16 | 161216JST12/170109JST16 |
| 170119-1829 | 5,532 | PR4533 | 547-26-16/547-49-15 | 161228JST10/170118JST17 |
| 170120-1830 | 5,544 | PR4536 | 547-26-16/547-49-15 | 161228JST10/170118JST17 |
| 170120-1831 | 5,668 | PR4537 | 547-26-16/547-49-15 | 161228JST10/170118JST17 |
| 170121-1832 | 5,941 | PR4540 | 547-26-16/547-49-15 | 161228JST10/170118JST17 |
| 170121-1833 | 5,641 | PR4541 | 547-26-16/547-49-15 | 161228JST10/170118JST17 |
| 170127-1834 | 5,668 | PR4559 | 547-26-16/547-58-6 | 161228JST10/170124JST17 |
| 170127-1835 | 3,927 | PR4560 | 547-26-16/547-58-6 | 161228JST10/170124JST17 |
| 170128-1836 | 5,484 | PR4561 | 547-26-16/547-58-6 | 161228JST10/170124JST17 |
| 170128-1837 | 5,976 | PR4562 | 547-26-16/547-58-6 | 161228JST10/170124JST17 |
| 170128-1838 | 5,710 | PR4563 | 547-26-16/547-58-6 | 161228JST10/170124JST17 |
| 170131-1839 | 5,858 | PR4571 | 547-26-16/547-67-14 | 161228JST10/170131JST17 |
| 170131-1840 | 5,722 | PR4573 | 547-26-16/547-67-14 | 161228JST10/170131JST17 |
| 170201-1841 | 5,797 | PR4578 | 547-26-16/547-67-14 | 161228JST10/170131JST17 |
| 170201-1842 | 5,489 | PR4579 | 547-26-16/547-67-14 | 161228JST10/170131JST17 |
| 170202-1843 | 6,000 | PR4583 | 547-26-16/547-67-14 | 161228JST10/170131JST17 |
| 170209-1844 | 5,728 | PR4607 | 547-26-16/547-78-23 | 161228JST10/170208JST17 |
| 170209-1845 | 5,430 | PR4608 | 547-26-16/547-78-23 | 161228JST10/170208JST17 |
| 170210-1846 | 5,874 | PR4609 | 547-26-16/547-78-23 | 161228JST10/170208JST17 |
| 170210-1847 | 5,777 | PR4610 | 547-26-16/547-78-23 | 161228JST10/170208JST17 |
| 170216-1848 | 5,960 | PR4622 | 547-67-21/547-86-4 | 170131JST13/170213JST16 |



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**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 170217-1849 | 6,023 | PR4624 | 547-67-21/547-86-4 | 170131JST13/170213JST16 |
| 170218-1850 | 6,041 | PR4625 | 547-67-21/547-86-4 | 170131JST13/170213JST16 |
| 170218-1851 | 6,067 | PR4626 | 547-67-21/547-86-4 | 170131JST13/170213JST16 |
| 170222-1852 | 5,812 | PR4630 | 547-67-21/547-96-04 | 170131JST13/170220JGT17 |
| 170223-1853 | 5,911 | PR4634 | 547-67-21/547-96-04 | 170131JST13/170220JGT17 |
| 170223-1854 | 5,839 | PR4636 | 547-26-16/547-96-04 | 161228JST10/170220JGT17 |
| 170224-1855 | 6,010 | PR4639 | 547-67-21/547-96-04 | 170131JST13/170220JGT17 |
| 170224-1856 | 6,324 | PR4641 | 547-67-21/547-96-04 | 170131JST13/170220JGT17 |
| 170225-1857 | 5,817 | PR4644 | 547-67-21/547-97-15 | 170131JST13/170222JGT16 |
| 170225-1858 | 6,231 | PR4645 | 547-67-21/547-97-15 | 170131JST13/170222JGT16 |
| 170227-1859 | 6,041 | PR4646 | 547-67-21/547-97-15 | 170131JST13/170222JGT16 |
| 170227-1860 | 5,965 | PR4647 | 547-67-21/547-97-15 | 170131JST13/170222JGT16 |
| 170228-1861 | 6,163 | PR4652 | 547-67-21/547-97-15 | 170131JST13/170222JGT16 |
| 170228-1862 | 5,934 | PR4653 | 547-67-21/547-104-21 | 170131JST13/170227JGT17 |
| 170301-1863 | 6,038 | PR4655 | 547-67-21/547-104-21 | 170131JST13/170227JGT17 |
| 170301-1864 | 5,846 | PR4656 | 547-67-21/547-104-21 | 170131JST13/170227JGT17 |
| 170302-1865 | 5,778 | PR4658 | 547-67-21/547-104-21 | 170131JST13/170227JGT17 |
| 170303-1866 | 6,083 | PR4660 | 547-67-21/547-104-21 | 170131JST13/170227JGT17 |
| 170309-1867 | 5,947 | PR4670 | 547-67-21/547-115-20 | 170131JST13/170307JGT16 |
| 170310-1868 | 5,789 | PR4671 | 547-67-21/547-115-20 | 170131JST13/170307JGT16 |
| 170311-1869 | 5,750 | PR4672 | 547-98-25/547-115-20 | 170222JGT11/170307JGT16 |
| 170311-1870 | 5,605 | PR4674 | 547-98-25/547-115-20 | 170222JGT11/170307JGT16 |
| 170311-1871 | 5,987 | PR4675 | 547-98-25/547-115-20 | 170222JGT11/170307JGT16 |
| 170313-1872 | 5,431 | PR4672 | 547-98-25/547-119-26 | 170222JGT11/170310JGT17 |
| 170314-1873 | 5,640 | PR4677 | 547-98-25/547-119-26 | 170222JGT11/170310JGT17 |
| 170315-1874 | 5,929 | PR4682 | 547-98-25/547-119-26 | 170222JGT11/170310JGT17 |
| 170316-1875 | 5,797 | PR4692 | 547-98-25/547-119-26 | 170222JGT11/170310JGT17 |
| 170317-1876 | 5,700 | PR4697 | 547-98-25/547-119-26 | 170222JGT11/170310JGT17 |
| 170323-1877 | 5,573 | PR4731 | 547-98-25/547-131-16 | 170222JGT11/170320JGT16 |
| 170325-1878 | 5,800 | PR4742 | 547-98-25/547-131-16 | 170222JGT11/170320JGT16 |
| 170325-1879 | 5,423 | PR4743 | 547-98-25/547-131-16 | 170222JGT11/170320JGT16 |
| 170325-1880 | 5,311 | PR4744 | 547-98-25/547-131-16 | 170222JGT11/170320JGT16 |
| 170325-1881 | 5,386 | PR4745 | 547-98-25/547-131-16 | 170222JGT11/170320JGT16 |
| 170328-1882 | 5,303 | PR4746 | 547-98-25/547-141-17 | 170222JGT11/170327MHT17 |
| 170328-1883 | 5,797 | PR4749 | 547-98-25/547-141-17 | 170222JGT11/170327MHT17 |
| 170328-1884 | 5,775 | PR4752 | 547-98-25/547-141-17 | 170222JGT11/170327MHT17 |
| 170329-1885 | 5,341 | PR4755 | 547-98-25/547-141-17 | 170222JGT11/170327MHT17 |
| 170330-1886 | 5,682 | PR4761 | 547-98-25/547-144-22 | 170222JGT11/170329MHT16 |
| 170330-1887 | 5,396 | PR4762 | 547-98-25/547-144-22 | 170222JGT11/170329MHT16 |
| 170401-1888 | 5,872 | PR4766 | 547-98-25/547-144-22 | 170222JGT11/170329MHT16 |
| 170401-1889 | 5,456 | PR4767 | 547-98-25/547-144-22 | 170222JGT11/170329MHT16 |
| 170405-1890 | 6,013 | PR4776 | 547-141-14/547-144-22 | 170327MHT12/170329MHT16 |
| 170405-1891 | 5,815 | PR4779 | 547-141-14/547-144-22 | 170327MHT12/170329MHT16 |
| 170405-1892 | 6,127 | PR4781 | 547-141-14/547-151-15 | 170327MHT12/170405MHT17 |
| 170406-1893 | 5,754 | PR4784 | 547-141-14/547-151-15 | 170327MHT12/170405MHT17 |
| 170406-1894 | 5,693 | PR4785 | 547-141-14/547-151-15 | 170327MHT12/170405MHT17 |
| 170406-1895 | 5,769 | PR4786 | 547-141-14/547-151-15 | 170327MHT12/170405MHT17 |
| 170407-1896 | 5,749 | PR4794 | 547-141-14/547-158-11 | 170327MHT12/170406MHT12 |
| 170407-1897 | 5,709 | PR4793 | 547-141-14/547-151-15 | 170327MHT12/170405MHT17 |
| 170408-1898 | 5,455 | PR4795 | 547-141-14/547-158-18 | 170327MHT12/170406MHT11 |
| 170414-1899 | 5,670 | PR4815 | 547-141-14/547-160-11 | 170327MHT12/170413MHT10 |
| 170414-1900 | 5,747 | PR4816 | 547-141-14/547-160-11 | 170327MHT12/170413MHT10 |
| 170417-1901 | 5,419 | PR4820 | 547-141-14/547-160-11 | 170327MHT12/170413MHT10 |
| 170425-1902 | 5,325 | PR4852 | 547-141-14/547-176-3 | 170327MHT12/170424JST16 |
| 170425-1903 | 5,571 | PR4853 | 547-141-14/547-176-3 | 170327MHT12/170424JST16 |
| 170426-1904 | 5,544 | PR4861 | 547-141-14/547-176-3 | 170327MHT12/170424JST16 |
| 170427-1905 | 4,368 | PR4868 | 547-141-14/547-176-3 | 170327MHT12/170424JST16 |
| 170427-1906 | 5,780 | PR4869 | 547-141-14/547-176-3 | 170327MHT12/170424JST16 |
| 170501-1907 | 6,013 | PR4884 | 547-141-14/547-176-20 | 170327MHT12/170427MHT17 |
| 170501-1908 | 6,077 | PR4886 | 547-141-14/547-176-20 | 170327MHT12/170427MHT17 |
| 170502-1909 | 5,742 | PR4889 | 547-141-14/547-176-20 | 170327MHT12/170427MHT17 |
| 170615-1910 | 5,575 | PR4938 | 561-7-26 | 170613JST12 |
| 170616-1911 | 5,453 | PR4939 | 561-7-26/561-11-7 | 170613JST12/170616JST10 |
| 170616-1912 | 5,845 | PR4940 | 561-7-26/561-11-10 | 170613JST12/170616JST16 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 170616-1913 | 6,032 | PR4941 | 561-7-26/561-11-10 | 170613JST12/170616JST16 |
| 170617-1914 | 5,280 | PR4942 | 561-7-26/561-11-10 | 170613JST12/170616JST16 |
| 170617-1915 | 5,762 | PR4943 | 561-7-26/561-11-10 | 170613JST12/170616JST16 |
| 170617-1916 | 5,988 | PR4944 | 561-7-26/561-11-10 | 170613JST12/170616JST16 |
| 170622-1917 | 5,609 | PR4948 | 561-7-26/561-19-16 | 170613JST12/170621JST16 |
| 170623-1918 | 6,151 | PR4953 | 561-7-26/561-19-16 | 170613JST12/170621JST16 |
| 170623-1919 | 5,899 | PR4955 | 561-7-26/561-19-16 | 170613JST12/170621JST16 |
| 170623-1920 | 6,213 | PR4956 | 561-7-26/516-19-16 | 170613JST12/170621JST16 |
| 170624-1921 | 5,905 | PR4957 | 561-7-26/561-19-19 | 170613JST12/170621JST11 |
| 170624-1922 | 5,855 | PR4958 | 561-7-26/561-19-16 | 170613JST12/170621JST16 |
| 170626-1923 | 6,143 | PR4960 | 561-7-26/561-19-19 | 170613JST12/170621JST11 |
| 170630-1924 | 5,604 | PR4980 | 561-7-26/561-31-22 | 170613JST12/170629JST16 |
| 170701-1925 | 5,622 | PR4982 | 561-7-26/561-31-22 | 170613JST12/170629JST16 |
| 170701-1926 | 5,508 | PR4983 | 561-7-26/561-31-22 | 170613JST12/170629JST16 |
| 170701-1927 | 5,648 | PR4990 | 561-7-26/561-40-24 | 170613JST12/170706JST16 |
| 170701-1928 | 5,759 | PR4991 | 561-7-26/561-40-24 | 170613JST12/170706JST16 |
| 170701-1929 | 5,726 | PR4992 | 561-7-26/561-40-24 | 170613JST12/170706JST16 |
| 170708-1930 | 5,840 | PR5000 | 561-19-13/561-40-24 | 170621JST12/170706JST16 |
| 170708-1931 | 5,451 | PR5002 | 561-19-13/561-40-24 | 170621JST12/170706JST16 |
| 170712-1932 | 5,578 | PR5010 | 561-19-13/561-9-3 | 170621JST12/170614JST17 |
| 170713-1933 | 5,591 | PR5018 | 561-19-13/561-9-3 | 170621JST12/170614JST17 |
| 170713-1934 | 5,472 | PR5020 | 561-19-13/561-9-3 | 170621JST12/170614JST17 |
| 170714-1935 | 6,042 | PR5021 | 561-19-13/561-9-3 | 170621JST12/170614JST17 |
| 170714-1936 | 5,749 | PR5024 | 561-19-13/561-9-3 | 170621JST12/170614JST17 |
| 170720-1937 | 6,252 | PR5032 | 561-19-13/561-56-11 | 170621JST12/170718JST16 |
| 170720-1938 | 5,754 | PR5033 | 561-19-13/561-56-11 | 170621JST12/170718JST16 |
| 170724-1939 | 5,956 | PR5037 | 561-19-13/561-56-11 | 170621JST12/170718JST16 |
| 170725-1940 | 6,001 | PR5039 | 561-19-13/561-56-11 | 170621JST12/170718JST16 |
| 170725-1941 | 5,752 | PR5040 | 561-19-13/561-56-11 | 170621JST12/170718JST16 |
| 170726-1942 | 6,096 | PR5044 | 561-19-13/561-66-17 | 170621JST12/170726JST16 |
| 170726-1943 | 6,208 | PR5047 | 561-19-13/561-66-17 | 170621JST12/170726JST16 |
| 170727-1944 | 5,881 | PR5050 | 561-19-13/561-66-17 | 170621JST12/170726JST16 |
| 170727-1945 | 5,894 | PR5055 | 561-19-13/561-66-17 | 170621JST12/170726JST16 |
| 170801-1946 | 5,440 | PR5066 | 561-19-13/561-71-28 | 170621JST12/170801JST17 |
| 170802-1947 | 5,526 | PR5068 | 561-19-13/561-71-28 | 170621JST12/170801JST17 |
| 170803-1948 | 5,202 | PR5072 | 561-19-13/561-71-28 | 170621JST12/170801JST17 |
| 170803-1949 | 5,778 | PR5073 | 561-19-13/561-71-28 | 170621JST12/170801JST17 |
| 170807-1950 | 5,704 | PR5076 | 561-71-2/561-80-25 | 170731JST10/170807JST17 |
| 170807-1951 | 5,765 | PR5077 | 561-71-2/561-80-25 | 170731JST10/170807JST17 |
| 170808-1952 | 6,103 | PR5078 | 561-71-2/561-80-25 | 170731JST10/170807JST17 |
| 170808-1953 | 6,045 | PR5079 | 561-71-2/561-80-25 | 170731JST10/170807JST17 |
| 170809-1954 | 5,874 | PR5089 | 561-71-2/561-80-25 | 170731JST10/170807JST17 |
| 170810-1955 | 5,787 | PR5093 | 561-71-2/561-82-15 | 170731JST10/170808JST16 |
| 170810-1956 | 5,818 | PR5099 | 561-71-2/561-82-15 | 170731JST10/170808JST16 |
| 170811-1957 | 5,497 | PR5103 | 561-71-2/561-82-15 | 170731JST10/170808JST16 |
| 170814-1958 | 5,808 | PR5106 | 561-71-2/561-82-15 | 170731JST10/170808JST16 |
| 170913-1959 | 5,917 | PR5137 | 561-71-2/561-113-3 | 170731JST10/170912JST17 |
| 170914-1960 | 5,999 | PR5145 | 561-71-2/561-113-3 | 170731JST10/170912JST17 |
| 170915-1961 | 6,002 | PR5157 | 561-71-2/561-113-3 | 170731JST10/170912JST17 |
| 170916-1962 | 5,481 | PR5161 | 561-71-2/561-115-21 | 170731JST10/170915JST10 |
| 170916-1963 | 5,760 | PR5162 | 561-71-2/561-115-21 | 170731JST10/170915JST10 |
| 170927-1964 | 5,816 | PR5185 | 561-71-2/561-129-11 | 170731JST10/170926JST17 |
| 170928-1965 | 5,904 | PR5196 | 561-71-2/561-129-11 | 170731JST10/170926JST17 |
| 170929-1966 | 5,869 | PR5202 | 561-71-2/561-129-11 | 170731JST10/170926JST17 |
| 170929-1967 | 5,877 | PR5204 | 561-71-2/561-129-11 | 170731JST10/170926JST17 |
| 170930-1968 | 6,045 | PR5207 | 561-71-2/561-129-11 | 170731JST10/170926JST17 |
| 171003-1969 | 5,787 | PR5208 | 561-112-26/561-137-11 | 170912JST11/171002JST17 |
| 171004-1970 | 5,648 | PR5213 | 561-112-26/561-137-11 | 170912JST11/171002JST17 |
| 171005-1971 | 6,054 | PR5215 | 561-112-26/561-137-11 | 170912JST11/171002JST17 |
| 171006-1972 | 5,979 | PR5221 | 561-112-26/561-137-11 | 170912JST11/171002JST17 |
| 171006-1973 | 5,829 | PR5222 | 561-112-26/561-137-11 | 170912JST11/171002JST17 |
| 171010-1974 | 6,030 | PR5227 | 561-112-26/561-146-3 | 170912JST11/171010JST16 |
| 171012-1975 | 5,705 | PR5230 | 561-112-26/561-146-3 | 170912JST11/171010JST16 |
| 171012-1976 | 5,800 | PR5231 | 561-112-26/561-146-3 | 170912JST11/171010JST16 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 171013-1977 | 5,676 | PR5234 | 561-112-26/561-146-3 | 170912JST11/171010JST16 |
| 171019-1978 | 5,924 | PR5253 | 561-112-26/561-155-20 | 170912JST11/171018JST17 |
| 171019-1979 | 5,831 | PR5256 | 561-112-26/561-155-20 | 170912JST11/171018JST17 |
| 171021-1980 | 5,699 | PR5258 | 561-112-26/561-155-20 | 170912JST11/171018JST17 |
| 171021-1981 | 5,865 | PR5259 | 561-112-26/561-155-20 | 170912JST11/171018JST17 |
| 171024-1982 | 5,782 | PR5262 | 561-112-26/561-155-20 | 170912JST11/171018JST17 |
| 171025-1983 | 5,588 | PR5264 | 561-112-26/561-158-24 | 170912JST11/171020JST17 |
| 171026-1984 | 5,630 | PR5266 | 561-112-26/561-158-24 | 170912JST11/171020JST17 |
| 171027-1985 | 5,586 | PR5268 | 561-112-26/561-158-24 | 170912JST11/171020JST17 |
| 171028-1986 | 5,741 | PR5270 | 561-112-26/561-158-24 | 170912JST11/171020JST17 |
| 171028-1987 | 5,666 | PR5271 | 561-112-26/561-158-24 | 170912JST11/171020JST17 |
| 171028-1988 | 5,764 | PR5272 | 561-112-26/561-158-24 | 170912JST11/171020JST17 |
| 171102-1989 | 5,500 | PR5277 | 561-145-7/561-176-17 | 171009JST13/171031JST16 |
| 171102-1990 | 5,714 | PR5278 | 561-145-7/561-176-17 | 171009JST13/171031JST16 |
| 171103-1991 | 5,671 | PR5279 | 561-145-7/561-176-17 | 171009JST13/171031JST16 |
| 171103-1992 | 5,523 | PR5280 | 561-145-7/561-176-17 | 171009JST13/171031JST16 |
| 171104-1993 | 5,788 | PR5281 | 561-145-7/561-176-17 | 171009JST13/171031JST16 |
| 171115-1994 | 5,699 | PR5301 | 561-145-7/561-194-13 | 171009JST13/171115JST16 |
| 171116-1995 | 5,502 | PR5302 | 561-145-7/561-194-13 | 171009JST13/171115JST16 |
| 171118-1996 | 5,834 | PR5304 | 561-145-7/561-194-13 | 171009JST13/171115JST16 |
| 171118-1997 | 5,817 | PR5305 | 561-145-7/561-194-13 | 171009JST13/171115JST16 |
| 171118-1998 | 5,776 | PR5306 | 561-145-7/561-194-13 | 171009JST13/171115JST16 |
| 171124-1999 | 5,707 | PR5314 | 561-145-7/561-201-15 | 171009JST13/171120JST16 |
| 171124-2000 | 5,730 | PR5315 | 561-145-7/561-201-15 | 171009JST13/171120JST16 |
| 171125-2001 | 5,714 | PR5316 | 561-145-7/561-201-15 | 171009JST13/171120JST16 |
| 171127-2002 | 5,469 | PR5323 | 561-145-7/561-201-15 | 171009JST13/171120JST16 |
| 171130-2003 | 5,783 | PR5337 | 561-145-7/563-3-23 | 171009JST13/171129JST16 |
| 171201-2004 | 5,737 | PR5338 | 561-145-7/563-3-23 | 171009JST13/171129JST16 |
| 171201-2005 | 5,628 | PR5339 | 561-145-7/563-3-23 | 171009JST13/171129JST16 |
| 171202-2006 | 5,610 | PR5340 | 561-145-7/563-3-23 | 171009JST13/171129JST16 |
| 171202-2007 | 5,965 | PR5341 | 561-145-7/563-3-23 | 171009JST13/171129JST16 |
| 171207-2008 | 5,392 | PR5368 | 561-186-17/563-10-14 | 171109JST11/171204JST16 |
| 171208-2009 | 5,905 | PR5373 | 561-186-17/563-10-14 | 171109JST11/171204JST16 |
| 171208-2010 | 6,033 | PR5374 | 561-186-17/563-10-14 | 171109JST11/171204JST16 |
| 171208-2011 | 5,965 | PR5375 | 561-186-17/563-10-14 | 171109JST11/171204JST16 |
| 180109-2012 | 5,775 | PR5434 | 561-186-17/563-48-11 | 171109JST11/180108JST16 |
| 180109-2013 | 6,130 | PR5441 | 561-186-17/563-48-11 | 171109JST11/180108JST16 |
| 180110-2014 | 5,950 | PR5446 | 561-186-17/563-48-11 | 171109JST11/180108JST16 |
| 180110-2015 | 5,991 | PR5447 | 561-186-17/563-48-11 | 171109JST11/180108JST16 |
| 180111-2016 | 5,632 | PR5450 | 561-186-17/563-48-11 | 171109JST11/180108JST16 |
| 180119-2017 | 6,054 | PR5470 | 561-186-17/563-57-1 | 171109JST11/180115JST16 |
| 180120-2018 | 5,804 | PR5471 | 561-186-17/563-57-1 | 171109JST11/180115JST16 |
| 180120-2019 | 6,114 | PR5472 | 561-186-17/563-57-1 | 171109JST11/180115JST16 |
| 180120-2020 | 5,642 | PR5473 | 561-186-17/563-57-1 | 171109JST11/180115JST16 |
| 180121-2021 | 5,913 | PR5474 | 561-186-17/563-57-1 | 171109JST11/180115JST16 |
| 180124-2022 | 5,830 | PR5483 | 561-186-17/563-66-20 | 171109JST11/180123JST16 |
| 180125-2023 | 6,255 | PR5484 | 561-186-17/563-66-20 | 171109JST11/180123JST16 |
| 180126-2024 | 5,861 | PR5492 | 561-186-17/563-66-20 | 171109JST11/180123JST16 |
| 180127-2025 | 6,080 | PR5493 | 561-186-17/563-66-20 | 171109JST11/180123JST16 |
| 180130-2026 | 5,971 | PR5500 | 561-186-17/563-74-19 | 171109JST11/180129JST16 |
| 180130-2027 | 5,895 | PR5504 | 561-186-17/563-74-19 | 171109JST11/180129JST16 |
| 180131-2028 | 5,856 | PR5507 | 563-44-26/563-74-19 | 180104JST13/180129JST16 |
| 180131-2029 | 6,226 | PR5509 | 563-44-26/563-74-19 | 180104JST13/180129JST16 |
| 180201-2030 | 6,077 | PR5514 | 563-44-26/563-74-19 | 180104JST13/180129JST16 |
| 180214-2031 | 5,861 | PR5562 | 563-44-26/563-90-18 | 180104JST13/180209JST16 |
| 180214-2032 | 5,861 | PR5563 | 563-44-26/563-90-18 | 180104JST13/180209JST16 |
| 180215-2033 | 5,852 | PR5564 | 563-44-26/563-90-18 | 180104JST13/180209JST16 |
| 180215-2034 | 6,070 | PR5565 | 563-44-26/563-90-18 | 180104JST13/180209JST16 |
| 180216-2035 | 6,184 | PR5566 | 563-44-26/563-90-18 | 180104JST13/180209JST16 |
| 180222-2036 | 6,165 | PR5574 | 563-96-9/563-104-02 | 180214JST11/180220JPT16 |
| 180223-2037 | 5,913 | PR5577 | 563-96-9/563-104-02 | 180214JST11/180220JPT16 |
| 180223-2038 | 5,926 | PR5578 | 563-96-9/563-104-02 | 180214JST11/180220JPT16 |
| 180224-2039 | 6,444 | PR5579 | 563-96-9/563-104-02 | 180214JST11/180220JPT16 |
| 180305-2040 | 5,821 | PR5591 | 563-96-9/563-114-23 | 180214JST11/180302JPT16 |

**Reclaimed Oil Load Log**

| Load Number | Quantity (gallons) | Bil of Lading | TDX Log Book # | TDX Sample ID |
|---|---|---|---|---|
| 180306-2041 | 5,703 | PR5599 | 563-96-9/563-114-23 | 180214JST11/180302JPT16 |
| 180308-2042 | 5,834 | PR5601 | 563-96-9/563-114-23 | 180214JST11/180302JPT16 |
| 180309-2043 | 5,090 | PR5602 | 563-96-9/563-114-23 | 180214JST11/180302JPT16 |
| 180310-2044 | 6,088 | PR5618 | 563-96-9/563-114-23 | 180214JST11/180302JPT16 |
| 180314-2045 | 5,564 | PR5615 | 563-96-9/563-128-07 | 180214JST11/180312JPT16 |
| 180315-2046 | 5,629 | PR5619 | 563-96-9/563-128-07 | 180214JST11/180312JPT16 |
| 180316-2047 | 5,695 | PR5621 | 563-96-9/563-128-07 | 180214JST11/180312JPT16 |
| 180316-2048 | 5,600 | PR5622 | 563-96-9/563-128-07 | 180214JST11/180312JPT16 |
| 180320-2049 | 6,077 | PR5623 | 563-96-9/563-137-27 | 180214JST11/180319JPT16 |
| 180320-2050 | 5,800 | PR5624 | 563-96-9/563-137-27 | 180214JST11/180319JPT16 |
| 180321-2051 | 5,677 | PR5625 | 563-96-9/563-137-27 | 180214JST11/180319JPT16 |
| 180323-2052 | 6,098 | PR5626 | 563-96-9/563-137-27 | 180214JST11/180319JPT16 |
| 180323-2053 | 5,862 | PR5628 | 563-96-9/563-137-27 | 180214JST11/180319JPT16 |
| 180327-2054 | 5,606 | PR5629 | 563-44-26/563-144-3 | 180104JST13/180326JPT16 |
| 180329-2055 | 5,491 | PR5635 | 563-44-26/563-144-3 | 180104JST13/180326JPT16 |
| 180330-2056 | 5,989 | PR5633 | 563-44-26/563-144-3 | 180104JST13/180326JPT16 |
| 180330-2057 | 6,093 | PR5634 | 563-44-26/563-144-3 | 180104JST13/180326JPT16 |
| 180403-2058 | 5,746 | PR5648 | 563-44-26/563-150-10 | 180104JST13/180402JST16 |
| 180404-2059 | 5,679 | PR5651 | 563-44-26/563-150-10 | 180104JST13/180402JST16 |
| 180405-2060 | 6,049 | PR5655 | 563-44-26/563-150-10 | 180104JST13/180402JST16 |
| 180406-2061 | 5,457 | PR5657 | 563-44-26/563-150-10 | 180104JST13/180402JST16 |
| 180406-2062 | 5,804 | PR5658 | 563-44-26/563-150-10 | 180104JST13/180402JST16 |
| 180409-2063 | 5,397 | PR5659 | 563-44-26/563-150-10 | 180104JST13/180402JST16 |
| 180427-2064 | 5,822 | PR5714 | 563-121-07/563-176-27 | 180307JPT11/180425JPT16 |
| 180430-2065 | 5,840 | PR5718 | 563-96-9/563-176-27 | 180214JST11/180425JPT16 |
| 180501-2066 | 5,864 | PR5721 | 563-96-9/563-176-27 | 180214JST11/180425JPT16 |
| 180502-2067 | 5,819 | PR5722 | 563-44-26/563-176-27 | 180104JST13/180425JPT16 |
| 180503-2068 | 5,926 | PR5726 | 563-44-26/563-176-27 | 180104JST13/180425JPT16 |
| 180504-2069 | 5,793 | PR5731 | 563-121-07/563-185-11 | 180307JPT11/180503JPT16 |
| 180507-2070 | 5,939 | PR5740 | 563-121-07/563-185-11 | 180307JPT11/180503JPT16 |
| 180508-2071 | 5,947 | PR5743 | 563-121-07/563-185-11 | 180307JPT11/180503JPT16 |
| 180509-2072 | 5,939 | PR5746 | 563-121-07/563-185-11 | 180307JPT11/180503JPT16 |
| 180510-2073 | 5,877 | PR5747 | 563-121-07/563-185-11 | 180307JPT11/180503JPT16 |
| 180521-2074 | 6,244 | PR5777 | 563-121-07/563-200-16 | 180307JPT11/180518JPT16 |
| 180522-2075 | 6,260 | PR5785 | 563-121-07/563-200-16 | 180307JPT11/180518JPT16 |
| 180523-2076 | 5,666 | PR5787 | 563-121-07/563-200-16 | 180307JPT11/180518JPT16 |
| 180524-2077 | 5,908 | PR5796 | 563-121-07/563-200-16 | 180307JPT11/180518JPT16 |
| 180607-2078 | 5,686 | PR5829 | 563-121-07/564-14-27 | 180307JPT11/180605JST16 |
| 180607-2079 | 5,577 | PR5830 | 563-121-07/564-14-27 | 180307JPT11/180605JST16 |
| 180607-2080 | 5,757 | PR5836 | 563-121-07/564-14-27 | 180307JPT11/180605JST16 |
| 180607-2081 | 6,101 | PR5839 | 563-121-07/564-14-27 | 180307JPT11/180605JST16 |
| 180609-2082 | 5,741 | PR5840 | 563-121-07/564-14-27 | 180307JPT11/180605JST16 |
| 180612-2083 | 5,697 | PR5848 | 563-121-07/564-23-9 | 180307JPT11/180612JST12 |
| 180612-2084 | 5,806 | PR5849 | 563-121-07/564-23-12 | 180307JPT11/180612JST13 |
| 180613-2085 | 5,718 | PR5850 | 563-121-07/564-21-18 | 180307JPT11/180611JST16 |
| 180614-2086 | 5,796 | PR5851 | 563-121-07/564-21-18 | 180307JPT11/180611JST16 |
| 180615-2087 | 5,991 | PR5852 | 563-121-07/564-21-18 | 180307JPT11/180611JST16 |
| 180616-2088 | 5,989 | PR5854 | 564-9-20/564-21-18 | 180601JST12/180611JST16 |
| 180616-2089 | 5,895 | PR5855 | 564-9-20/564-21-18 | 180601JST12/180611JST16 |
| 180628-2090 | 6,218 | PR5894 | 564-9-20/564-38-7 | 180601JST12/180626JST16 |
| 180630-2091 | 6,320 | PR5897 | 564-9-20/564-38-7 | 180601JST12/180626JST16 |
| 180630-2092 | 5,997 | PR5898 | 564-9-20/564-38-7 | 180601JST12/180626JST16 |
| 180702-2093 | 5,368 | PR5902 | 564-9-20/564-42-13 | 180601JST12/180629JST36 |
| 180703-2094 | 5,593 | PR5903 | 564-9-20/564-42-13 | 180601JST12/180629JST36 |
| 180704-2095 | 5,775 | PR5907 | 564-9-20/564-46-27 | 180601JST12/180702JST16 |
| 180704-2096 | 5,872 | PR5908 | 564-9-20/564-46-27 | 180601JST12/180702JST16 |
| 180704-2097 | 6,070 | PR5909 | 564-9-20/564-46-27 | 180601JST12/180702JST16 |
| 180704-2098 | 5,121 | PR5910 | 564-9-20/564-42-13 | 180601JST12/180629JST36 |
| 180705-2099 | 5,848 | PR5911 | 564-9-20/564-46-27 | 180601JST12/180702JST16 |
| | | | | |
| | | | | |
| | Total Oil Gallons | | | |
| | | | | |
| | 8,640.237 | | | |

**US ecology**

**WASTE / MATERIAL PROFILE FORM**

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090087855-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 486210 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [X] 1 Time [ ] Other Describe?:

8. Shipment Size: 25YD box Quantity: 100.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: [redacted] PIPELINE SLUDGE AND SOLIDS

2. Process Generating: Clean out of pipeline section / natural gas liquids holding pipes

3. Describe Physical Appearance: BLACK SLUDGE, SOLIDS, LIQUIDS, STRONG PETROLEUM ODOR

4. Odor: [ ] None [ ] Slight [X] Strong | 5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: Black | 7. Liquid phases: [ ] Single [ ] Double Layer [X] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0003301H | | | | | |
| 21. RCRA Waste Codes | D001 | D018 | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G19 | 23. Form Code: W609 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: ☐ TCLP ☒ TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| RUST / SCALE / DIRT / SEDIMENT | % | 90 | 85 | 95 |
| WATER | % | 5 | 1 | 10 |
| Mercury | MG/KG | 2000 | 0 | 0 |
| Benzene | MG/KG | 2370 | 0 | 0 |
| Toluene | MG/KG | 6630 | 0 | 0 |
| Ethylbenzene | MG/KG | 374 | 0 | 0 |
| XYLENE | MG/KG | 4140 | 0 | 0 |
| TOTAL HYDROCARBONS | MG/KG | 202000 | 0 | 0 |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | ☐ Yes | ☒ No | 9. Reactive Sulfides ppm | ☐ Yes | ☒ No |
| 2. Explosive | ☐ Yes | ☒ No | 10. Reactive Cyanides ppm | ☐ Yes | ☒ No |
| 3. Organic Peroxide | ☐ Yes | ☒ No | 11. Water/Air Reactive | ☐ Yes | ☒ No |
| 4. Shock Sensitive | ☐ Yes | ☒ No | 12. Thermally Unstable | ☐ Yes | ☒ No |
| 5. Tires | ☐ Yes | ☒ No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | ☐ Yes | ☒ No |
| 6. Pyrophoric | ☐ Yes | ☒ No | 14. Medical/Infectious Waste | ☐ Yes | ☒ No |
| 7. Compressed Gases | ☐ Yes | ☒ No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | ☐ Yes | ☒ No |
| 8. Halogenated Organics | ☐ Yes | ☒ No | | | |

16. Hazardous Secondary Material? ☐ Yes ☐ No

17. Possibility of incidental liquids from transporation? ☒ Yes ☐ No

18. Is waste/material a solid using the paint filter test? ☐ Yes (solid) ☒ No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical _____ ☐ <= 2 ☒ 2<12.5 ☐ ≥12.5

20. Flash Point 70 °F ☒ < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? ☐ N/A ☒ Yes ☐ No

## F. GENERATOR'S CERTIFICATION

☐ Yes ☒ No I certify this waste/material may be disposed of without further treatment.

☐ Yes ☐ N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

**U.S. ECOLOGY TEXAS, INC.** **PROFILE #** 090087855-0

**WASTE/MATERIAL PROFILE FORM**
THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | [redacted]PIPELINE SLUDGE AND SOLIDS | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

☐ F037 ☐ F038 ☐ K048 ☐ K049 ☐ K050 ☐ K051
☐ K052 ☐ K169 ☐ K170 ☐ K171 ☐ K172 ☒ No Petroleum Refining Listed Waste Code Applies

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
Cleaning out a natural gas and natural gas liquids pipeline

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % ($hould total 100%) |
|---|---|
| Water | 10 |
| Solids (excluding Organics/Oil/TPH) | 40 |
| Organics /Oil/TPH | 50 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: ☐ Solid ☐ Liquid ☐ Single Phased ☒ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | |
| **% of ASH** | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 999 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, ..... | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, ..... | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other ..... | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | 09/30/2014 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090087193-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [X] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 213112 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, LIQUID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3082 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [ ] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [X] 1 Time [ ] Other Describe?:

8. Shipment Size: 55 Quantity: 1.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: PIGGING WASTE (SLUDGE)

2. Process Generating: LIQUID FROM PIPELINE MAINTENANCE ACTIVITIES

3. Describe Physical Appearance: SLUDGE/NO ODOR

4. Odor: [X] None [ ] Slight [ ] Strong

5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: VARIES

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | RRCT219H | | | | | |
| 21. RCRA Waste Codes | D018 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G09 | 23. Form Code: W219 | 24. Management Code: (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| NATURAL GAS CONDENSATE | % | | 8 | 10 |
| RUST, DIRT | % | | 60 | 75 |
| Benzene | PPM | 170 | 0 | 0 |
| WATER | % | | 10 | 14.75 |
| Toluene | PPM | 590 | 0 | 0 |
| Ethylbenzene | PPM | 58 | 0 | 0 |
| Xylene (mixed isomers) | PPM | 530 | 0 | 0 |
| Mercury | PPM | 1700 | 0 | 0 |
| TCLP MERCURY | MG/L | 0.13 | 0 | 0 |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point 141 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

PROFILE # 090087193-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | PIGGING WASTE (SLUDGE) | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
SLUDGE FROM NATURAL GAS PIPELINE PIGGING OPERATIONS

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 15 |
| Solids (excluding Organics/Oil/TPH) | 70 |
| Organics /Oil/TPH | 15 |

**PROPERTIES (wet weight basis)**

PHYSICAL STATE: ☐ Solid ☐ Liquid ☒ Single Phased ☒ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | 0 |
| % of ASH | 0 |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 999 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | | |
|---|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? | ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | 09/12/2014 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090099524-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billing information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 2911 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [X] 1 Time [ ] Other Describe?:

8. Shipment Size: Quantity: 25.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: K050

2. Process Generating: CLEANING OF HEAT EXCHANGER

3. Describe Physical Appearance: BLACK WITH MILD ODOR

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: BLACK BROWN

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [ ] Yes [X] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0015519H | | | | | |
| 21. RCRA Waste Codes | K050 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G13 | 23. Form Code: W519 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: ☐ TCLP ☐ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| HEAT EXCHANGER SLUDGE | % | 100 | 98 | 100 |
| WATER | % | 2 | 1 | 2 |
| DEBRIS | % | | 0 | 20 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | ☐ Yes | ☒ No | 9. Reactive Sulfides ppm | ☐ Yes | ☒ No |
| 2. Explosive | ☐ Yes | ☒ No | 10. Reactive Cyanides ppm | ☐ Yes | ☒ No |
| 3. Organic Peroxide | ☐ Yes | ☒ No | 11. Water/Air Reactive | ☐ Yes | ☒ No |
| 4. Shock Sensitive | ☐ Yes | ☒ No | 12. Thermally Unstable | ☐ Yes | ☒ No |
| 5. Tires | ☐ Yes | ☒ No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | ☐ Yes | ☒ No |
| 6. Pyrophoric | ☐ Yes | ☒ No | 14. Medical/Infectious Waste | ☐ Yes | ☒ No |
| 7. Compressed Gases | ☐ Yes | ☒ No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | ☒ Yes | ☐ No |
| 8. Halogenated Organics | ☐ Yes | ☒ No | | | |

16. Hazardous Secondary Material? ☐ Yes ☐ No

17. Possibility of incidental liquids from transporation? ☐ Yes ☒ No

18. Is waste/material a solid using the paint filter test? ☒ Yes (solid) ☐ No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical ☐ <= 2 ☒ 2<12.5 ☐ ≥12.5

20. Flash Point 200 °F ☐ < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? ☐ N/A ☒ Yes ☐ No

## F. GENERATOR'S CERTIFICATION

☐ Yes ☒ No I certify this waste/material may be disposed of without further treatment.

☐ Yes ☐ N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090099524-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | K050 | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☒ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☐ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 2 |
| Solids (excluding Organics/Oil/TPH) | 90 |
| Organics /Oil/TPH | 8 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**

☒ Solid ☐ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | |
| **% of ASH** | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 763 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | | |
|---|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? | ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☐ No | Does the waste contain any surfactants? | | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090106031-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S. - F037

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ: 1.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: AS GENERATED

8. Shipment Size: 25 CY Quantity: 1.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: RRDS - FAILS TS F037, <10PPM BZ, >1000PPM TPH, HG 628 PPM

2. Process Generating: SOLIDS FROM DEWATERING OF API, DAF, EDENF, P & B SLUDGE, GRIT CHAMBER SLUDGE, HEAT EXCHANGER SLUDGE, SOLIDS FROM SLOP OIL TANK.

3. Describe Physical Appearance: BROWN TO BLACK FILTERCAKE SOLIDS

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: brown to black | 7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0025489H | | | | | |
| 21. RCRA Waste Codes | F037 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G07 | 23. Form Code: W409 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| REFINERY SLUDGE | % | 45 | 50 | 100 |
| WATER | % | 43 | 10 | 47 |
| Arsenic | PPM | 19.4 | 1 | 35 |
| Barium | PPM | 1010 | 250 | 1200 |
| Chromium | PPM | 374 | 12 | 500 |
| Lead | PPM | 73 | 14 | 18 |
| Mercury | PPM | 628 | 628 | 628 |
| Nickel | PPM | 253 | 7.5 | 300 |
| CYANIDE | PPM | 0.08 | 0.2 | 0.6 |
| ETHYLBENZENE | PPM | 0.942 | 0.1 | 100 |
| Xylene (mixed isomers) | PPM | 4.23 | 1 | 100 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 3.50 to 10.50 Typical 4.00

20. Flash Point > 140 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 04/18/2018 |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090106031-0

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| TOLUENE | PPM | 0.141 | 0.1 | 100 |
| Naphthalene | PPM | 10.3 | 1 | 15 |
| Phenanthrene | PPM | 27.1 | 9 | 35 |
| TOTAL HYDROCARBONS | PPM | 121000 | 0 | 200000 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

PROFILE # 090106031-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | RRDS - FAILS TS F037, <10PPM BZ, >1000PPM TPH, HG 628 PPM | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| X F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | K171 | K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

na

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 43 |
| Solids (excluding Organics/Oil/TPH) | 45 |
| Organics /Oil/TPH | 12 |

**PROPERTIES (wet weight basis)**

PHYSICAL STATE: X Solid X Liquid Single Phased Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | |
| % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 628 |
| SVM (Pb, Cd) | 74.22 |
| LVM (As, Be, Cr) | 393.6 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| Yes | X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| Yes | X No | If Catalyst, does material posses self heating properties? | |
| Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| Yes | X No | Contains fuel oxygenates? MTBE Ethanol Other | ppm |
| Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 04/18/2018 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090106031-0

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: RRDS - FAILS TS F037, <10PPM BZ, >1000PPM TPH, HG 628 PPM

Process generating the waste/material: SOLIDS FROM DEWATERING OF API, DAF, EDENF, P & B SLUDGE, GRIT CHAMBER SLUDGE, HEAT EXCHANGER

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [ ] Yes [X] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 0.246 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: 0.246 to 9.9 ppmw

This waste/material is classified as: [X] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 4/18/2018 |

Revised 1/2013

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090093937-1

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ: 10.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: As Generator

8. Shipment Size: 25 CY Quantity: 20.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: RRDS - D018, >10PPM BZ, >1000PPM TPH, HG 550-600 PPM

2. Process Generating: Sludge from refinery flare system

3. Describe Physical Appearance: BROWN TO BLACK FILTERCAKE SOLIDS AND SLIDGE

4. Odor: [ ] None [ ] Slight [X] Strong

5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: brown to black

7. Liquid phases: [ ] Single [ ] Double Layer [X] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [X] Yes [ ] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0120519H | | | | | |
| 21. RCRA Waste Codes | D018 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G07 | 23. Form Code: W409 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| REFINERY SLUDGE | % | 65.5 | 50 | 95 |
| TOTAL HYDROCARBONS | % | 7.34 | 0.1 | 10 |
| WATER | % | 26.1 | 10 | 50 |
| Benzene | PPM | 560 | 10 | 600 |
| Ethylbenzene | PPM | 538 | 10 | 600 |
| XYLENE | PPM | 7620 | 0 | 1000 |
| Toluene | PPM | 1520 | 0 | 2000 |
| Chromium | PPM | 138 | 0 | 140 |
| Mercury | PPM | 572 | 550 | 600 |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 4.00 to 10.00 Typical ____

20. Flash Point > 140 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090093937-1

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | RRDS - D018, >10PPM BZ, >1000PPM TPH, HG 550-600 PPM | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
WASTE SLUDGE REMOVED FROM FLARE KNOCKOUT DRUM

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 27.1 |
| Solids (excluding Organics/Oil/TPH) | 65.5 |
| Organics /Oil/TPH | 7.4 |

**PROPERTIES (wet weight basis)**

PHYSICAL STATE: ☐ Solid ☐ Liquid ☐ Single Phased ☒ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | 0 |
| % of ASH | 0 |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 572 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 11/20/2015 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090093937-1

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: RRDS - D018, >10PPM BZ, >1000PPM TPH, HG 550-600 PPM

Process generating the waste/material: Sludge from refinery flare system

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 560 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: 10 to 600 ppmw

This waste/material is classified as: [X] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 11/20/2015 |

Revised 1/2013

# US ecology

## WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090097246-1

### A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [X] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 2911 | |

### B. SHIPPING INFORMATION

1. US DOT Shipping Name: FLAMMABLE SOLIDS, ORGANIC, N.O.S.

2. Hazard Class: 4.1 | 3. UN/NA #: UN1325 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [X] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [X] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: VACBOX Quantity: 9.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

### C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: OILY MATERIAL LEAD CHROME ARSENIC

2. Process Generating: CLEANOUT OF RAW NATURAL GAS STORAGE VESSELS AND GAS PROCESSING EQUIPMENT.

3. Describe Physical Appearance: WET SOLID WITHE SOME FREE LIQUID

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: BROWN/BLACK | 7. Liquid phases: [ ] Single [ ] Double Layer [X] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0006695H | | | | | |
| 21. RCRA Waste Codes | D001 | D018 | K169 | D004 | D007 | D008 |
| | | | | | | |
| | | | | | | |

22. Source Code: G39 | 23. Form Code: W219 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [X] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| PETROLEUM CRUDE OIL | % | 0 | 50 | 75 |
| Hydrogen Sulfide | % | 0 | 0 | 4 |
| n-Hexane | % | 0 | 0 | 2 |
| Benzene | PPM | 0 | 0 | 2.2 |
| Xylene (mixed isomers) | PPM | 0 | 103 | 22000 |
| Ethylbenzene | PPM | 0 | 1.42 | 1550 |
| Toluene | PPM | 0 | 3 | 5000 |
| Lead | PPM | 0 | 0 | 0.25 |
| Mercury | PPM | 0 | 0 | 0.0012 |
| Chromium | PPM | 0 | 0 | 0.0005 |
| Barium | PPM | 0 | 0.28 | 0.75 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point ____ °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 05/10/2016 |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090097246-1

Values are: [X] TCLP [X] TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Arsenic | PPM | 0 | 0 | 0.05 |
| Cadmium | PPM | 0 | 0 | 0.05 |
| Selenium | PPM | 0 | 0 | 0.05 |
| Silver | PPM | 0 | 0 | 0.05 |
| C6-C12 HYDROCARBON | PPM | 0 | 100 | 500 |
| C12-C28 HYDROCARBON | PPM | 0 | 100 | 800 |
| C28-C36 HYDROCARBON | PPM | 0 | 100 | 400 |
| WATER | % | 0 | 0 | 85 |
| IRON | % | 0 | 0 | 3 |
| ZINC | PPM | 0 | 0 | 885 |
| DEBRIS (HOSES, FABRIC, PPE) | % | 0 | 0 | 10 |
| Methyl ethyl ketone | PPM | 0 | 0 | 0.741 |
| BENZ(A)ANTHRACENE | PPM | 0 | 0 | 3.4 |
| BENZO(G,H,I)PERYLENE | PPM | 0 | 0 | 9.8 |
| CHRYSENE | PPM | 0 | 0 | 3.4 |
| Fluorene | PPM | 0 | 0 | 3.4 |
| Naphthalene | PPM | 0 | 0 | 5.6 |
| Phenanthrene | PPM | 0 | 0 | 5.6 |
| Pyrene | PPM | 0 | 0 | 8.2 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090097246-1

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | OILY MATERIAL LEAD CHROME ARSENIC | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☒ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☐ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 20 |
| Solids (excluding Organics/Oil/TPH) | 30 |
| Organics /Oil/TPH | 50 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | | Heating Value Btu/Lb | 17000 |
|---|---|---|---|---|---|---|
| ☐ Solid | ☐ Liquid | ☐ Single Phased | ☒ Multi-Phased | | % of ASH | 50 |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 571 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 05/10/2016 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090097246-1

**WASTE/MATERIAL PROFILE FORM**

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: OILY MATERIAL LEAD CHROME ARSENIC

Process generating the waste/material: CLEANOUT OF RAW NATURAL GAS STORAGE VESSELS AND GAS PROCESSING EQUIPMENT.

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [ ] Yes [X] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 480 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: ____ to ____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [X] None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 6/9/2015 |

Revised 1/2013

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090096509-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [X] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 2911 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: UN1993, Flammable liquids, n.o.s., 3, PG-II

2. Hazard Class: 3 | 3. UN/NA #: UN1993 | 4. Packaging Group: II | 5. RQ: 100.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [X] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [X] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: VACBOX Quantity: 9.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: OILY MATERIAL

2. Process Generating: CLEANOUT OF RAW NATURAL GAS STORAGE VESSELS AND GAS PROCESSING EQUIPMENT.

3. Describe Physical Appearance: WET SOLID WITHE SOME FREE LIQUID

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: BROWN/BLACK | 7. Liquid phases: [ ] Single [ ] Double Layer [X] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [X] Yes [ ] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0006695H | | | | | |
| 21. RCRA Waste Codes | D001 | D018 | K169 | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G39 | 23. Form Code: W219 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [X] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| PETROLEUM CRUDE OIL | % | 0 | 50 | 75 |
| Hydrogen Sulfide | % | 0 | 0 | 4 |
| n-Hexane | % | 0 | 0 | 2 |
| Benzene | PPM | 0 | 0 | 2.2 |
| Xylene (mixed isomers) | PPM | 0 | 103 | 22000 |
| Ethylbenzene | PPM | 0 | 1.42 | 1550 |
| Toluene | PPM | 0 | 3 | 5000 |
| Lead | PPM | 0 | 0 | 0.25 |
| Mercury | PPM | 0 | 0 | 0.0012 |
| Chromium | PPM | 0 | 0 | 0.0005 |
| Barium | PPM | 0 | 0.28 | 0.75 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point ____ °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 05/10/2016 |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090096509-0

Values are: [X] TCLP [X] TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Arsenic | PPM | 0 | 0 | 0.05 |
| Cadmium | PPM | 0 | 0 | 0.05 |
| Selenium | PPM | 0 | 0 | 0.05 |
| Silver | PPM | 0 | 0 | 0.05 |
| C6-C12 HYDROCARBON | PPM | 0 | 100 | 500 |
| C12-C28 HYDROCARBON | PPM | 0 | 100 | 800 |
| C28-C36 HYDROCARBON | PPM | 0 | 100 | 400 |
| WATER | % | 0 | 0 | 85 |
| IRON | % | 0 | 0 | 3 |
| ZINC | PPM | 0 | 0 | 885 |
| DEBRIS (HOSES, FABRIC, PPE) | % | 0 | 0 | 10 |
| Methyl ethyl ketone | PPM | 0 | 0 | 0.741 |
| BENZ(A)ANTHRACENE | PPM | 0 | 0 | 3.4 |
| BENZO(G,H,I)PERYLENE | PPM | 0 | 0 | 9.8 |
| CHRYSENE | PPM | 0 | 0 | 3.4 |
| Fluorene | PPM | 0 | 0 | 3.4 |
| Naphthalene | PPM | 0 | 0 | 5.6 |
| Phenanthrene | PPM | 0 | 0 | 5.6 |
| Pyrene | PPM | 0 | 0 | 8.2 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090096509-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | TXR000081740 |
| Waste/Material Stream Name: | OILY MATERIAL | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☒ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☐ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 20 |
| Solids (excluding Organics/Oil/TPH) | 30 |
| Organics /Oil/TPH | 50 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**

☐ Solid ☐ Liquid ☐ Single Phased ☒ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | 17000 |
| **% of ASH** | 50 |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 571 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, ____ | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, ____ | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other ____ | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 05/10/2016 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090096509-0

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: OILY MATERIAL

Process generating the waste/material: CLEANOUT OF RAW NATURAL GAS STORAGE VESSELS AND GAS PROCESSING EQUIPMENT.

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [ ] Yes [X] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 480 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: ____ to ____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [X] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 6/9/2015 |

Revised 1/2013

US ecology

**WASTE / MATERIAL PROFILE FORM**

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090087036-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 486210 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [X] 1 Time [ ] Other Describe?:

8. Shipment Size: 25yd Quantity: 10.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: DRIP LINE SOLIDS

2. Process Generating: Cleaning out a drip line connected to a natural gas pipeline

3. Describe Physical Appearance: BLACK SLUDGE, SOLIDS, LIQUIDS; STRONG PETROLEUM ODOR

4. Odor: [ ] None [ ] Slight [X] Strong

5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: Black

7. Liquid phases: [ ] Single [ ] Double Layer [X] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [ ] Yes [X] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | RRCT609H | | | | | |
| 21. RCRA Waste Codes | D018 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G19 | 23. Form Code: W609 | 24. Management Code: H050 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| RUST / SCALE / DIRT / SEDIMENT | % | 90 | 85 | 95 |
| WATER | % | 10 | 5 | 10 |
| Barium | MG/KG | 40.3 | 1 | 40.3 |
| Chromium | MG/KG | 61.5 | 1 | 61.5 |
| Lead | MG/KG | 143 | 1 | 143 |
| Mercury | MG/KG | 496 | 1 | 496 |
| Naphthalene | MG/KG | 160.5 | 1 | 160.5 |
| Benzene | MG/KG | 265 | 1 | 265 |
| Toluene | MG/KG | 695 | 1 | 695 |
| XYLENE | MG/KG | 648 | 1 | 648 |
| TOTAL HYDROCARBONS | MG/KG | 19700 | 30 | 19700 |

## E. CHARACTERISTICS

| | | | |
|---|---|---|---|
| 1. Oxidizer | [ ] Yes [X] No | 9. Reactive Sulfides 568.00 ppm | [X] Yes [ ] No |
| 2. Explosive | [ ] Yes [X] No | 10. Reactive Cyanides _____ ppm | [ ] Yes [X] No |
| 3. Organic Peroxide | [ ] Yes [X] No | 11. Water/Air Reactive | [ ] Yes [X] No |
| 4. Shock Sensitive | [ ] Yes [X] No | 12. Thermally Unstable | [ ] Yes [X] No |
| 5. Tires | [ ] Yes [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes [X] No |
| 6. Pyrophoric | [ ] Yes [X] No | 14. Medical/Infectious Waste | [ ] Yes [X] No |
| 7. Compressed Gases | [ ] Yes [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes [X] No |
| 8. Halogenated Organics | [ ] Yes [X] No | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical _____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point 178 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090087036-0

## WASTE/MATERIAL PROFILE FORM
THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | DRIP LINE SOLIDS | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
The drip line collected unwanted solids and debris while transporting natural gas through pipeline

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 10 |
| Solids (excluding Organics/Oil/TPH) | 40 |
| Organics /Oil/TPH | 50 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: ☐ Solid ☐ Liquid ☐ Single Phased ☒ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | |
| % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 496 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 468 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | 06/25/2014 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

WASTE / MATERIAL PROFILE FORM

| | | |
|---|---|---|
| US Ecology Nevada (Beatty) | usencs@usecology.com | |
| US Ecology Idaho (Grandview) | useics@usecology.com | |
| ✓ US Ecology Texas (Robstown) | usetcs@usecology.com | |
| US Ecology Michigan (Detroit) | usemcs@usecology.com | |

**PROFILE #** 090100216-1

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [X] Billling information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ: 10.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [X] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: 25 Quantity: 8.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: ORBITAL SHAKER SLUDGE & REJECT FEED

2. Process Generating: SLUDGE GENERATED FROM 3/8" MESH ORBITAL SHAKER USED TO REMOVE DEBRIS WHILE, NO BENZENE

3. Describe Physical Appearance: DARK-CHOCOLATE COVERED PEANUTS / BLACK SLUDGE

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: brown/black | 7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS603H | | | | | |
| 21. RCRA Waste Codes | K169 | F037 | F038 | K049 | K050 | K051 |
| | K170 | K171 | | | | |
| | | | | | | |

22. Source Code: G07 | 23. Form Code: W603 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| OILY SLUDGE (SILT, SOLIDS, ROCK <2") | % | 100 | 99 | 100 |
| LAN TEC PACKING (SOFTBALL SIZE, PLASTIC) | % | | 0 | 30 |
| Mercury | PPM | | 12 | 434 |
| Benzene | PPM | | 0 | 0.99 |
| WATER | % | 27 | 0 | 0 |
| Acenaphthene | MG/KG | 18.3 | 0 | 0 |
| Anthracene | % | 13.9 | 0 | 0 |
| BENZO(G,H,I)PERYLENE | MG/KG | 5.5 | 0 | 0 |
| Benzo(k)fluoranthene | MG/KG | 1.3 | 0 | 0 |
| CHRYSENE | MG/KG | 23.1 | 0 | 0 |
| Fluorene | MG/KG | 26.1 | 0 | 0 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 2.00 to 12.50 Typical 7.33

20. Flash Point 65 °F [X] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090100216-1

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Bis(2-Ethylhexyl) Phthalate | MG/KG | 21.4 | 0 | 0 |
| 2-METHYLNAPHTHALENE | MG/KG | 20 | 0 | 0 |
| Toluene | MG/KG | 3.15 | 0 | 0 |

US ecology

**U.S. ECOLOGY TEXAS, INC.** **PROFILE #** 090100216-1

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

### A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | ORBITAL SHAKER SLUDGE & REJECT FEED | | |

### B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☒ F037 | ☒ F038 | ☐ K048 | ☒ K049 | ☒ K050 | ☒ K051 |
| ☐ K052 | ☒ K169 | ☒ K170 | ☒ K171 | ☐ K172 | ☐ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

### C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 27 |
| Solids (excluding Organics/Oil/TPH) | 70 |
| Organics /Oil/TPH | 3 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | |
|---|---|---|---|---|---|
| ☒ Solid | ☐ Liquid | ☐ Single Phased | ☐ Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 434 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | | |
|---|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? | ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | | |

### D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090100216-1

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: ORBITAL SHAKER SLUDGE & REJECT FEED

Process generating the waste/material: SLUDGE GENERATED FROM 3/8" MESH ORBITAL SHAKER USED TO REMOVE DEBRIS WHILE, NO BENZENE

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [X] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 0.99 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: _____ to _____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 8/19/2013 |

Revised 1/2013

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090065833-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billing information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ: 10.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [X] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: 25 Quantity: 8.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: ORBITAL SHAKER SLUDGE & REJECT FEED

2. Process Generating: SLUDGE GENERATED FROM 3/8" MESH ORBITAL SHAKER USED TO REMOVE DEBRIS WHILE, NO BENZENE

3. Describe Physical Appearance: DARK-CHOCOLATE COVERED PEANUTS / BLACK SLUDGE

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: brown/black

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS603H | | | | | |
| 21. RCRA Waste Codes | F037 | F038 | K049 | K050 | K051 | K169 |
| | K170 | K171 | | | | |
| | | | | | | |

22. Source Code: G07 | 23. Form Code: W603 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| OILY SLUDGE (SILT, SOLIDS, ROCK <2") | % | 100 | 99 | 100 |
| LAN TEC PACKING (SOFTBALL SIZE, PLASTIC) | % | | 0 | 30 |
| Mercury | PPM | | 12 | 434 |
| Benzene | PPM | | 0 | 0.99 |
| WATER | % | 27 | 0 | 0 |
| Acenaphthene | MG/KG | 18.3 | 0 | 0 |
| Anthracene | % | 13.9 | 0 | 0 |
| BENZO(G,H,I)PERYLENE | MG/KG | 5.5 | 0 | 0 |
| Benzo(k)fluoranthene | MG/KG | 1.3 | 0 | 0 |
| CHRYSENE | MG/KG | 23.1 | 0 | 0 |
| Fluorene | MG/KG | 26.1 | 0 | 0 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 2.00 to 12.50 Typical 7.33

20. Flash Point 65 °F [X] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090065833-0

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Bis(2-Ethylhexyl) Phthalate | MG/KG | 21.4 | 0 | 0 |
| 2-METHYLNAPHTHALENE | MG/KG | 20 | 0 | 0 |
| Toluene | MG/KG | 3.15 | 0 | 0 |

US ecology

**U.S. ECOLOGY TEXAS, INC.**

**PROFILE #** 090065833-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | ORBITAL SHAKER SLUDGE & REJECT FEED | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☒ F037 | ☒ F038 | ☐ K048 | ☒ K049 | ☒ K050 | ☒ K051 |
| ☐ K052 | ☒ K169 | ☒ K170 | ☒ K171 | ☐ K172 | ☐ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 27 |
| Solids (excluding Organics/Oil/TPH) | 70 |
| Organics /Oil/TPH | 3 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | |
|---|---|---|---|---|---|
| ☒ Solid | ☐ Liquid | ☐ Single Phased | ☐ Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 434 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☐ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090065833-0

**WASTE/MATERIAL PROFILE FORM**

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: ORBITAL SHAKER SLUDGE & REJECT FEED

Process generating the waste/material: SLUDGE GENERATED FROM 3/8" MESH ORBITAL SHAKER USED TO REMOVE DEBRIS WHILE, NO BENZENE

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [X] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 0.99 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: _____ to _____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 8/19/2013 |

Revised 1/2013

**US ecology**

**WASTE / MATERIAL PROFILE FORM**

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090103576-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: UN3190, WASTE SELF HEATING SOLIDS, INORGANIC, NOS, 4.2, PGII, RQ(K171) - (HYDROTREATING CATALYSTS)

2. Hazard Class: 4.2 | 3. UN/NA #: UN3190 | 4. Packaging Group: II | 5. RQ:

6. Container Type: [ ] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [X] Other, Describe: FLOW BINS

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: 5-6 YEARS

8. Shipment Size: 478, 458 Quantity: 127.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: CFU SPENT CATALYSTS - REACTORS 801A & 801B

2. Process Generating: CATCRACKER FEED (HYDROTREATING UNIT)

3. Describe Physical Appearance: GREY DUST AND SUPPORT MEDIA

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: GREY

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [X] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [X] Yes [ ] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS319H | | | | | |
| 21. RCRA Waste Codes | K171 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G08 | 23. Form Code: W319 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| ALUMINUM OXIDE | % | 68 | 0 | 0 |
| SILICON OXIDES | % | 14 | 0 | 0 |
| NICKEL OXIDE | % | 4 | 0 | 0 |
| Molybdenum trioxide | % | 14 | 0 | 0 |
| ALUMINUM PHOSPHATE | % | 1 | 0 | 0 |
| Benzene | MG/KG | 140 | 0 | 0 |
| SEE ATTACHED SUMMARY FOR RCRA METALS, VOCS & SVOC | | | 0 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides 10.00 ppm | [X] Yes | [ ] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical _____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point > 140 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090103576-0

## WASTE/MATERIAL PROFILE FORM
THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | CFU SPENT CATALYSTS - REACTORS 801A & 801B | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | [X] Yes | [ ] No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | [ ] Yes | [X] No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | [ ] Yes | [X] No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| [ ] F037 | [ ] F038 | [ ] K048 | [ ] K049 | [ ] K050 | [ ] K051 |
| [ ] K052 | [ ] K169 | [ ] K170 | [X] K171 | [ ] K172 | [ ] No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0 |
| Solids (excluding Organics/Oil/TPH) | 97 |
| Organics /Oil/TPH | 3 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: [X] Solid [ ] Liquid [ ] Single Phased [ ] Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | |
| **% of ASH** | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 0.01 |
| SVM (Pb, Cd) | 119 |
| LVM (As, Be, Cr) | 10490 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 10 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| [ ] Yes | [X] No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| [X] Yes | [ ] No | If Catalyst, does material posses self heating properties? | |
| [ ] Yes | [X] No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| [ ] Yes | [X] No | Has the material been processed by a centrifuge prior to shipment? | |
| [ ] Yes | [X] No | Contains fuel oxygenates? [ ] MTBE [ ] Ethanol [ ] Other | ppm |
| [ ] Yes | [X] No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 10/26/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090103576-0

**WASTE/MATERIAL PROFILE FORM**

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: CFU SPENT CATALYSTS - REACTORS 801A & 801B

Process generating the waste/material: CATCRACKER FEED (HYDROTREATING UNIT)

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 140 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [X] Yes [ ] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: ____ to ____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 10/26/2017 |

Revised 1/2013

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090106661-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billing information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 2911 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ: 1.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: PROJECT WORK

8. Shipment Size: 20 YD BOX Quantity: 0.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: SWMU 46 F037 WASTE

2. Process Generating: REMEDIATION WASTE FROM RCRA CA - ABANDONED OIL/WATER SEPARATOR

3. Describe Physical Appearance: DARK SLUDGE

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: GRAY/BLACK

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [X] Yes [ ] No

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS504H | | | | | |
| 21. RCRA Waste Codes | F037 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G23 | 23. Form Code: W504 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| REFINERY PRIMARY SLUDGE | % | | 90 | 100 |
| SMALL DEBRIS (ROCK, CONCRETE, METAL: | % | | 0 | 5 |
| ALL < 6" | | | 0 | 0 |
| Benzene | PPM | | 0 | 100 |
| Lead | PPM | | 50 | 10000 |
| GRAVEL/SOIL | % | | 1 | 20 |
| WATER | % | 30 | 15 | 50 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical _____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point > 140 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

**U.S. ECOLOGY TEXAS, INC.**

**PROFILE #** 090106661-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

### A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | SWMU 46 F037 WASTE | | |

### B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| X F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | K171 | K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

### C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 30 |
| Solids (excluding Organics/Oil/TPH) | 60 |
| Organics /Oil/TPH | 10 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | |
|---|---|---|---|---|---|
| X Solid | Liquid | Single Phased | Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 38 |
| Mercury | 0.37 |
| SVM (Pb, Cd) | 7403.4 |
| LVM (As, Be, Cr) | 44.64 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 99 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| Yes X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | | % vol |
| Yes X No | If Catalyst, does material posses self heating properties? | | |
| Yes X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | | % vol |
| Yes X No | Has the material been processed by a centrifuge prior to shipment? | | |
| Yes X No | Contains fuel oxygenates? | MTBE / Ethanol / Other | ppm |
| Yes X No | Does the waste contain any surfactants? | | |

### D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 05/30/2018 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090106661-0

**WASTE/MATERIAL PROFILE FORM**

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: SWMU 46 F037 WASTE

Process generating the waste/material: REMEDIATION WASTE FROM RCRA CA - ABANDONED OIL/WATER SEPARATOR

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 15 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: _____ to _____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 5/30/2018 |

Revised 1/2013

US ecology

WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090101921-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 325110 325211 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.(CHROMIUM)

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: II | 5. RQ: 5000.00

6. Container Type: [ ] Bulk [ ] Totes [ ] Pallet [ ] Bags [X] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: SEMIANNUALLY

8. Shipment Size: 55 GALLON Quantity: 120.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: CHROMIUM CATALYST

2. Process Generating: SPENT, UNUSED CHROMIUM BASED CATALYST FROM THE PRODUCTION OF POLYETHYLENE RESIN

3. Describe Physical Appearance: GREEN POWDERY SOLID

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: LIGHT GREEN

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS316H | | | | | |
| 21. RCRA Waste Codes | D007 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G08 | 23. Form Code: W316 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| CHROMIUM ACETATE | % | | 0.5 | 2 |
| Chromium | MG/L | | 50 | 150 |
| CHROMIUM | MG/KG | | 200 | 11500 |
| SILICA, AMORPHOUS | % | | 93 | 96 |
| Methanol | % | | 0 | 1 |
| 1-Propanol | % | | 0 | 2 |
| BORON | % | | 0 | 0.01 |
| TITANIUM | % | | 0 | 0.01 |
| POLYETHYLENE VIALS (6"X1") | % | | 0 | 5 |
| FILTER/FILTER MEDIA (6"X1") | % | | 0 | 5 |
| Acetone | MG/KG | 278 | 0 | 0 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical _____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point > 215 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [ ] Yes [X] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090101921-0

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| TOTAL ORGANIC CONTENT | % | | 1 | 4 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

PROFILE # 090101921-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | CHROMIUM CATALYST | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | X No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | X Yes | ☐ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | X No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
METAL BEARING CATALYST USED IN THE PRODUCTION OF HIGH DENSITY POLYETHYLENE RESINS. THIS CATALYST REPRESENTS UNUSABL

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0 |
| Solids (excluding Organics/Oil/TPH) | 98 |
| Organics /Oil/TPH | 2 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | 4999 |
|---|---|---|---|---|---|
| X Solid | ☐ Liquid | ☐ Single Phased | ☐ Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 0.02 |
| SVM (Pb, Cd) | 0.2 |
| LVM (As, Be, Cr) | 7000 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| X Yes | ☐ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | 10 % vol |
| ☐ Yes | X No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | X No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 06/30/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090102582-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 562211 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, LIQUID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3082 | 4. Packaging Group: III | 5. RQ: 1.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [X] 1 Time [ ] Other Describe?:

8. Shipment Size: 25 CY VAC BOX Quantity: 10.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: HAZARDOUS TANK BOTTOMS (NON-REACTIVE)

2. Process Generating: CLEANING OF RCRA HAZARDOUS WASTE STORAGE TANK T-8A

3. Describe Physical Appearance: TANK BOTTOM SLUDGE WITH SOLIDS (DIRT AND RUST); LIQUID PHASE CONTAINS ORGANIC LAYER

4. Odor: [ ] None [ ] Slight [X] Strong | 5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: DARK BROWN TO B | 7. Liquid phases: [ ] Single [X] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0056519H | | | | | |
| 21. RCRA Waste Codes | D018 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G25 | 23. Form Code: W519 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| WATER | % | 42 | 20 | 78 |
| DIRT/RUST | % | 50 | 20 | 78 |
| NON-TRI ORGANICS | % | 8 | 2 | 10 |
| Benzene | MG/KG | 720 | 0 | 0 |
| Ethylbenzene | MG/KG | 430 | 0 | 0 |
| Toluene | MG/KG | 1100 | 0 | 0 |
| XYLENE | MG/KG | 2600 | 0 | 0 |
| ISOPROPYLBENZENE | MG/KG | 45 | 0 | 0 |
| M-XYLENE & P-XYLENE | MG/KG | 1800 | 0 | 0 |
| o-Xylene | MG/KG | 820 | 0 | 0 |
| Cyclohexane | MG/KG | 28 | 0 | 0 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____

20. Flash Point ____ °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [ ] Yes [X] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [ ] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090102582-0

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Acenaphthene | MG/KG | 68 | 0 | 0 |
| Anthracene | MG/KG | 13 | 0 | 0 |
| BENZO(G,H,I)PERYLENE | MG/KG | 49 | 0 | 0 |
| Bis(2-Ethylhexyl) Phthalate | MG/KG | 48 | 0 | 0 |
| CHRYSENE | MG/KG | 30 | 0 | 0 |
| Dibenzofuran | MG/KG | 20 | 0 | 0 |
| Fluorene | MG/KG | 65 | 0 | 0 |
| Naphthalene | MG/KG | 1300 | 0 | 0 |
| phenanthrene, 2,5-dimethyl- (generic PAHs) | MG/KG | 110 | 0 | 0 |
| Pyrene | MG/KG | 25 | 0 | 0 |
| 1,1'-BIPHENYL | MG/KG | 440 | 0 | 0 |
| 2-METHYLNAPHTHALENE | MG/KG | 2500 | 0 | 0 |
| Silver | MG/KG | 11 | 0 | 0 |
| Beryllium | MG/KG | 10.5 | 0 | 0 |
| Barium | MG/KG | 440 | 0 | 0 |
| Cadmium | MG/KG | 170 | 0 | 0 |
| Chromium | MG/KG | 2800 | 0 | 0 |
| Lead | MG/KG | 330 | 0 | 0 |
| Selenium | MG/KG | 14 | 0 | 0 |
| Mercury | MG/KG | 13 | 0 | 0 |
| IDENO(1,2,3-C,D) PYRENE | MG/KG | 10 | 0 | 0 |
| Arsenic | MG/KG | 37 | 0 | 0 |
| 2-METHYLPHENOL | MG/KG | 57 | 0 | 0 |
| Phenol | MG/KG | 240 | 0 | 0 |

US ecology

**U.S. ECOLOGY TEXAS, INC.**

**PROFILE #** 090102582-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

### A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | HAZARDOUS TANK BOTTOMS (NON-REACTIVE) | | |

### B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | [ ] Yes | [X] No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | [ ] Yes | [X] No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | [X] Yes | [ ] No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| [ ] F037 | [ ] F038 | [ ] K048 | [ ] K049 | [ ] K050 | [ ] K051 |
| [ ] K052 | [ ] K169 | [ ] K170 | [ ] K171 | [ ] K172 | [X] No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
CLEANING OF RCRA HAZARDOUS WASTE STORAGE TANK T-8A (TANK BOTTOMS)

### C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 42 |
| Solids (excluding Organics/Oil/TPH) | 50 |
| Organics /Oil/TPH | 8 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | |
|---|---|---|---|---|---|
| [ ] Solid | [ ] Liquid | [ ] Single Phased | [X] Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 65 |
| Mercury | 13 |
| SVM (Pb, Cd) | 500 |
| LVM (As, Be, Cr) | 2847.5 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 146 |

**Reclamation Facility Coordination Questions**

| | | | | |
|---|---|---|---|---|
| [ ] Yes | [X] No | Contains Non-Friable Debris Material > 2-inch size? If yes, | | % vol |
| [ ] Yes | [X] No | If Catalyst, does material posses self heating properties? | | |
| [ ] Yes | [X] No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | | % vol |
| [ ] Yes | [X] No | Has the material been processed by a centrifuge prior to shipment? | | |
| [ ] Yes | [X] No | Contains fuel oxygenates? | [ ] MTBE [ ] Ethanol [ ] Other | ppm |
| [ ] Yes | [X] No | Does the waste contain any surfactants? | | |

### D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 09/01/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090104169-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billing information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 562211 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ: 10.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [X] 1 Time [ ] Other Describe?:

8. Shipment Size: 25 CY Quantity: 5.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: FILTER PRESS CAKE; HAZARDOUS (NON-REACTIVE); TANK T-8A

2. Process Generating: FILTER CAKE IS GENERATED FROM THE DEWATERING OF TANK T-8A BOTTOMS VIA A FILTER PRESS. TANK T-8A BOTTOMS WERE GENERATED FROM THE CLEANING OF RCRA HAZARDOUS WASTE STORAGE TANK.

3. Describe Physical Appearance: BROWN TO BLACK COLOR WITH STREAKS OF WHITE

4. Odor: [ ] None [ ] Slight [X] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: BROWN TO BLACK

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0012319H | | | | | |
| 21. RCRA Waste Codes | D018 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G14 | 23. Form Code: W319 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [X] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| ENTRAINED WATER | % | 20 | 15 | 40 |
| DIRT/RUST/DIATOMACEIOUS EARTH | % | 72 | 58 | 83 |
| NON-TRI ORGANICS | % | 8 | 2 | 10 |
| Benzene | UG/L | 630 | 0 | 0 |
| Ethylbenzene | MG/KG | 110 | 0 | 0 |
| Toluene | MG/KG | 150 | 0 | 0 |
| XYLENE | MG/KG | 790 | 0 | 0 |
| M-XYLENE & P-XYLENE | MG/KG | 560 | 0 | 0 |
| o-Xylene | MG/KG | 230 | 0 | 0 |
| Acenaphthene | MG/KG | 5.3 | 0 | 0 |
| BENZO(G,H,I)PERYLENE | MG/KG | 2.3 | 0 | 0 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 7.00 to 9.00 Typical ____

20. Flash Point > 150 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [ ] Yes [X] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090104169-0

Values are: [X] TCLP [X] TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Bis(2-Ethylhexyl) Phthalate | MG/KG | 11 | 0 | 0 |
| CHRYSENE | MG/KG | 2.4 | 0 | 0 |
| Cyclohexane | MG/KG | 13 | 0 | 0 |
| Fluorene | MG/KG | 6.2 | 0 | 0 |
| Naphthalene | MG/KG | 86 | 0 | 0 |
| Phenanthrene | MG/KG | 12 | 0 | 0 |
| Pyrene | MG/KG | 3.2 | 0 | 0 |
| Phenol | MG/KG | 8.4 | 0 | 0 |
| Arsenic | MG/KG | 0.0164 | 0 | 0 |
| Barium | MG/L | 0.321 | 0 | 0 |
| Beryllium | MG/KG | 10.5 | 0 | 0 |
| Cadmium | MG/L | 0.00616 | 0 | 0 |
| Chromium | MG/L | 0.104 | 0 | 0 |
| Lead | MG/L | 0.01 | 0 | 0 |
| Mercury | MG/L | 0.002 | 0 | 0 |
| Selenium | MG/L | 0.0363 | 0 | 0 |
| Silver | MG/L | 0.005 | 0 | 0 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090104169-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | FILTER PRESS CAKE; HAZARDOUS (NON-REACTIVE); TANK T-8A | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☒ Yes | ☐ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
FILTER CAKE IS GENERATED FROMT HE DEWATERING OF TANK T-8A BOTTOMS VIA A FILTER PRESS. TANK T-8A BOTTOMS WERE GENERAT

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 20 |
| Solids (excluding Organics/Oil/TPH) | 72 |
| Organics /Oil/TPH | 8 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | |
|---|---|---|---|---|---|
| ☒ Solid | ☐ Liquid | ☐ Single Phased | ☐ Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 65 |
| Mercury | 13 |
| SVM (Pb, Cd) | 500 |
| LVM (As, Be, Cr) | 2847.5 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 146 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 12/04/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090103346-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S. - SPENT HYDROREFINING CATALYST

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [ ] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [X] Other, Describe: FLO BINS

7. Frequency: [X] Year [ ] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: Quantity: 20.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: SPENT HYDROPROCESSING CATALYST (INCLUDING SWEEPINGS & FINES), TK341 & TK351 CATALYST

2. Process Generating: SPENT HYDROPROCESSING CATALYST FROM OIL REFINING TURNAROUND/CATALYST CHANGE, INCLUDING WASTE SWEEPINGS & FINES (WILL INCLUDE INERT SUPPORT MEDIA)

3. Describe Physical Appearance: DARK GREY TO BLACK EXTRUSIONS & FINES, NO HYDROCARBONS; NO FREE LIQUIDS; SLIGHT ODOR (SULFUR, HYDROCARBONS)

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: GREY/BLACK | 7. Liquid phases: [X] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [X] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS319H | | | | | |
| 21. RCRA Waste Codes | K171 | K172 | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G07 | 23. Form Code: W319 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| MOLYBDENUM | % | 8 | 7 | 10 |
| ALUMINA / ALUMINUM OXIDE | % | 70 | 60 | 80 |
| Cobalt | % | 1 | 0 | 3 |
| Nickel | % | 3 | 2 | 5 |
| phosphorous | % | 0.5 | 0 | 1 |
| SILICA/SUPPORT MEDIA | % | 9 | 5 | 20 |
| SULFUR | % | 6 | 4 | 10 |
| MOISTURE/H2O | % | 1.5 | 0 | 3 |
| DIBORON TRIOXIDE | % | 1 | 1 | 3 |
| Benzene | PPM | 90 | 50 | 300 |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides 99.00 ppm | [X] Yes | [ ] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |
| 16. Hazardous Secondary Material? | | | | [ ] Yes | [X] No |

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 2.10 to 6.90 Typical

20. Flash Point 300 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090103346-0

# WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | SPENT HYDROPROCESSING CATALYST (INCLUDING SWEEPINGS & FINES), TK341 & TK351 CATALYST | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | X K171 | X K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0 |
| Solids (excluding Organics/Oil/TPH) | 92 |
| Organics /Oil/TPH | 8 |

**PROPERTIES (wet weight basis)**

PHYSICAL STATE: X Solid ☐ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | 1999 |
| % of ASH | 5 |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 0 |
| SVM (Pb, Cd) | 19 |
| LVM (As, Be, Cr) | 2510 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 99 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| X Yes | ☐ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | X No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 10/05/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090103346-0

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: SPENT HYDROPROCESSING CATALYST (INCLUDING SWEEPINGS & FINES), TK341 & TK351 CATALYST

Process generating the waste/material: SPENT HYDROPROCESSING CATALYST FROM OIL REFINING TURNAROUND/CATALYST CHANGE, INCLUDING W

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [X] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 75 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [X] Yes [ ] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: 75 to 90 ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [X] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 10/5/2017 |

Revised 1/2013

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090103466-1

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S. - SPENT HYDROREFINING CATALYST

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [ ] Bulk [ ] Totes [ ] Pallet [ ] Bags [X] Drums [ ] Boxes [X] Other, Describe:

7. Frequency: [X] Year [ ] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: 55 Quantity: 100.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: SPENT HYDROPROCESSING CATALYST (INCLUDING SWEEPINGS & FINES), TK341 & TK351 CATALYST - DRUMS

2. Process Generating: SPENT HYDROPROCESSING CATALYST FROM OIL REFINING TURNAROUND/CATALYST CHANGE, INCLUDING WASTE SWEEPINGS & FINES (WILL INCLUDE INERT SUPPORT MEDIA)

3. Describe Physical Appearance: DARK GREY TO BLACK EXTRUSIONS & FINES, NO HYDROCARBONS; NO FREE LIQUIDS; SLIGHT ODOR (SULFUR, HYDROCARBONS)

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: GREY/BLACK | 7. Liquid phases: [X] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [X] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS319H | | | | | |
| 21. RCRA Waste Codes | K171 | K172 | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G07 | 23. Form Code: W319 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| MOLYBDENUM | % | 8 | 7 | 10 |
| ALUMINA / ALUMINUM OXIDE | % | 70 | 60 | 80 |
| Cobalt | % | 1 | 0 | 3 |
| Nickel | % | 3 | 2 | 5 |
| phosphorous | % | 0.5 | 0 | 1 |
| SILICA/SUPPORT MEDIA | % | 9 | 5 | 20 |
| SULFUR | % | 6 | 4 | 10 |
| MOISTURE/H2O | % | 1.5 | 0 | 3 |
| DIBORON TRIOXIDE | % | 1 | 1 | 3 |
| Benzene | PPM | 90 | 50 | 300 |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides 99.00 ppm | [X] Yes | [ ] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 2.10 to 6.90 Typical

20. Flash Point 300 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090103466-1

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | SPENT HYDROPROCESSING CATALYST (INCLUDING SWEEPINGS & FINES), TK341 & TK351 CATALYST - DRUMS | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | X K171 | X K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0 |
| Solids (excluding Organics/Oil/TPH) | 92 |
| Organics /Oil/TPH | 8 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: X Solid ☐ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | 1999 |
| **% of ASH** | 5 |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 0 |
| SVM (Pb, Cd) | 19 |
| LVM (As, Be, Cr) | 2510 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 99 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| X Yes | ☐ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | X No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 10/05/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090103466-1

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: SPENT HYDROPROCESSING CATALYST (INCLUDING SWEEPINGS & FINES), TK341 & TK351 CATALYST - DRUMS

Process generating the waste/material: SPENT HYDROPROCESSING CATALYST FROM OIL REFINING TURNAROUND/CATALYST CHANGE, INCLUDING W

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [X] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 75 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [X] Yes [ ] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: 75 to 90 ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [X] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 10/5/2017 |

Revised 1/2013

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090101053-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [X] Billing information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 2911 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?:

8. Shipment Size: Quantity: 55.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: CHD1 SPENT CATALYST

2. Process Generating: REMOVAL OF SPENT CATALYST FROM SYSTEM

3. Describe Physical Appearance: SPHERICAL SHAPED

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: GREY BLACK

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0004393H | 0038393H | | | | |
| 21. RCRA Waste Codes | K171 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G09 | 23. Form Code: W304 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| SPENT CATALYST | % | 100 | 0 | 0 |
| Barium | MG/KG | 326 | 0 | 0 |
| Cadmium | MG/KG | 65 | 0 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point 200 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090101053-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | CHD1 SPENT CATALYST | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | X K171 | K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0 |
| Solids (excluding Organics/Oil/TPH) | 95 |
| Organics /Oil/TPH | 5 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | |
|---|---|---|---|---|---|
| X Solid | Liquid | Single Phased | Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 0 |
| SVM (Pb, Cd) | 65 |
| LVM (As, Be, Cr) | 1898 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| Yes | X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| Yes | X No | If Catalyst, does material posses self heating properties? | |
| Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| Yes | X No | Contains fuel oxygenates? MTBE Ethanol Other | ppm |
| Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 05/04/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090105022-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billing information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ: 10.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [X] Year [ ] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: Quantity: 15.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: DECOKE RESIDUE

2. Process Generating: DECOKE OF CRUDE FURNICE UNIT

3. Describe Physical Appearance: SOLID

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: DARK

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS409H | | | | | |
| 21. RCRA Waste Codes | D018 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G13 | 23. Form Code: W409 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Benzene | MG/KG | 120 | 0 | 0 |
| Cyclohexane | MG/KG | 49 | 0 | 0 |
| Ethylbenzene | MG/KG | 83 | 0 | 0 |
| Toluene | MG/KG | 460 | 0 | 0 |
| XYLENES | MG/KG | 570 | 0 | 0 |
| PETROLEUM COKE | % | 100 | 0 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point > 212 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090105022-0

**WASTE/MATERIAL PROFILE FORM**
THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | DECOKE RESIDUE | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | X Yes | No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | K171 | K172 | X No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.
THE WASTE COMES FROM CLEANING A COKER FURNACE UNIT

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 13 |
| Solids (excluding Organics/Oil/TPH) | 86.88 |
| Organics /Oil/TPH | 0.12 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | 10000 |
|---|---|---|---|---|---|
| X Solid | Liquid | Single Phased | Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 0.04 |
| SVM (Pb, Cd) | 643.1 |
| LVM (As, Be, Cr) | 1604.4 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

- Yes X No Contains Non-Friable Debris Material > 2-inch size? If yes, ..... % vol
- Yes X No If Catalyst, does material posses self heating properties?
- Yes X No Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, ..... % vol
- Yes X No Has the material been processed by a centrifuge prior to shipment?
- Yes X No Contains fuel oxygenates? MTBE Ethanol Other ..... ppm
- Yes X No Does the waste contain any surfactants?

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | 02/07/2018 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090105022-0

# WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: DECOKE RESIDUE

Process generating the waste/material: DECOKE OF CRUDE FURNICE UNIT

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [X] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 120 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: ____ to ____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| | | | 2/5/2018 |

Revised 1/2013

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090102214-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billing information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status: [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 2911 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: WASTE SELF-HEATING SOLID, INORGANIC, N.O.S. (HYDROTREATING CATALYST), RQ K171

2. Hazard Class: 4.2 | 3. UN/NA #: UN3190 | 4. Packaging Group: II | 5. RQ: 1.00

6. Container Type: [ ] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [X] Other, Describe: FLO BINS

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?:

8. Shipment Size: Quantity: 83.13

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: DHT D-601 SPENT HYDROTREATING CATALYST

2. Process Generating: 601 - DIESEL HYDROTREATER - ARSENIC TRAP

3. Describe Physical Appearance: GREY GRANULAR AND OTHER SHAPES, SLIGHTLY OILY ODOR

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: | 7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [X] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [X] Yes [ ] No

14. VO Conc.(§264.1083): [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS409H | | | | | |
| 21. RCRA Waste Codes | K171 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G08 | 23. Form Code: W409 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| ALUMINUM OXIDE | % | 75.83 | 0 | 0 |
| SILICONE OXIDE | % | 10 | 0 | 0 |
| NICKEL OXIDE | % | 3 | 0 | 0 |
| Molybdenum trioxide | % | 5 | 0 | 0 |
| DIBORON TRIOXIDE | % | 0.17 | 0 | 0 |
| SPINEL (MG(AIO2)2) | % | 5 | 0 | 0 |
| COBALT OXIDE | % | 1 | 0 | 0 |
| Benzene | MG/KG | | 13 | 55 |
| Ethylbenzene | MG/KG | | 15 | 59 |
| Toluene | MG/KG | | 150 | 400 |
| ZYLENE | MG/KG | | 64 | 280 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides 31.00 ppm | [X] Yes | [ ] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [X] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point > 140 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [X] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090102214-0

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Phenanthrene | MG/KG | | 0.013 | 0.16 |
| Pyrene | MG/KG | | 0.42 | 1.5 |
| Arsenic | MG/KG | | 33 | 1300 |
| Barium | MG/KG | | 1.1 | 3.7 |
| Cadmium | MG/KG | | 0.35 | 4.5 |
| Chromium | MG/KG | | 9.2 | 18 |
| Lead | MG/KG | | 22 | 35 |
| Nickel | MG/KG | | 15000 | 45000 |
| Selenium | MG/KG | | 22 | 29 |
| Silver | MG/KG | | 1.4 | 4.8 |
| VANADIUM | MG/KG | | 120 | 120 |
| Mercury | MG/KG | | 0.0049 | 0.0055 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090102214-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | DHT D-601 SPENT HYDROTREATING CATALYST | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | X K171 | K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0.1 |
| Solids (excluding Organics/Oil/TPH) | 99.8 |
| Organics /Oil/TPH | 0.1 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: X Solid ☐ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | |
| % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 0.01 |
| SVM (Pb, Cd) | 35 |
| LVM (As, Be, Cr) | 1300 |
| Organic Chlorine from VOCs | 0 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

- ☐ Yes X No Contains Non-Friable Debris Material > 2-inch size? If yes, _____ % vol
- X Yes ☐ No If Catalyst, does material posses self heating properties?
- ☐ Yes X No Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, _____ % vol
- ☐ Yes X No Has the material been processed by a centrifuge prior to shipment?
- ☐ Yes X No Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other _____ ppm
- ☐ Yes X No Does the waste contain any surfactants?

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 08/03/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090102214-0

# WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]. | EPA Generator #: [redacted]

Waste/Material Common Name: DHT D-601 SPENT HYDROTREATING CATALYST

Process generating the waste/material: 601 - DIESEL HYDROTREATER - ARSENIC TRAP

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 35 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [X] Yes [ ] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: _____ to _____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [X] None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 8/3/2017 |

Revised 1/2013

# WASTE / MATERIAL PROFILE FORM

| | | |
|---|---|---|
| [ ] US Ecology Nevada (Beatty) | usencs@usecology.com | |
| [ ] US Ecology Idaho (Grandview) | useics@usecology.com | |
| [✓] US Ecology Texas (Robstown) | usetcs@usecology.com | PROFILE # 090099681-0 |
| [ ] US Ecology Michigan (Detroit) | usemcs@usecology.com | |

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [X] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: | 15. Billing Contact: [redacted] |
| 6. Phone: ( ) - 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 486210 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, LIQUID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3082 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [ ] Bulk [ ] Totes [ ] Pallet [ ] Bags [X] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [X] 1 Time [ ] Other Describe?:

8. Shipment Size: 55 gallon Quantity: 1.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: SCRUBBER FILTER WASTE/SLUDGE WITH PCE

2. Process Generating: SLUDGE GENERATED FROM CLEANING THE SCRUBBER UNIT AT A NATURAL GAS COMPRESSOR STATION. MATERIAL CONSISTS OF GREASE, MUD, DIRT, WATER, AND HYDROCARBONS. CONTRACTOR USED A CLEANER CONTAINING PCE, THUS MAKING IT RCRA HAZARDOUS.

3. Describe Physical Appearance: BLACK SLUDGE, MILD HYDROCARBON ODOR

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: BLACK

7. Liquid phases: [X] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [X] Yes [ ] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS603H | | | | | |
| 21. RCRA Waste Codes | F001 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G15 | 23. Form Code: W603 | 24. Management Code: H050 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| SCRUBBER SLUDGE | % | 85 | 80 | 90 |
| WATER | % | 15 | 10 | 20 |
| Tetrachloroethylene | MG/KG | 20000 | 0 | 0 |
| LEAD-210 | pCi/g | 143 | 0 | 0 |
| POLONIUM-210 | pCi/g | 102 | 0 | 0 |
| Benzene | MG/KG | 26 | 0 | 0 |
| Carbon disulfide | MG/KG | 9.1 | 0 | 0 |
| Naphthalene | MG/KG | 44 | 0 | 0 |
| Phenanthrene | MG/KG | 27 | 0 | 0 |
| Pyrene | MG/KG | 10 | 0 | 0 |
| Toluene | MG/KG | 180 | 0 | 0 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [X] Yes | [ ] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical _____ [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point 164 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090099681-0

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| XYLENE | MG/KG | | 0 | 450 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090099681-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | SCRUBBER FILTER WASTE/SLUDGE WITH PCE | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | X Yes | No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | K171 | K172 | X No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 20 |
| Solids (excluding Organics/Oil/TPH) | 78 |
| Organics /Oil/TPH | 2 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**

X Solid ☐ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | |
| **% of ASH** | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 0 |
| Mercury | 220 |
| SVM (Pb, Cd) | 470 |
| LVM (As, Be, Cr) | 111 |
| Organic Chlorine from VOCs | 20000 |
| Sulfides (total) | 470 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | X No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | X No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | 12/27/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090099681-0

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: SCRUBBER FILTER WASTE/SLUDGE WITH PCE

Process generating the waste/material: SLUDGE GENERATED FROM CLEANING THE SCRUBBER UNIT AT A NATURAL GAS COMPRESSOR STATION. MA

Type of Facility: [ ] Refinery (SIC 2911) [X] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [ ] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 26 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: _____ to _____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| | | | 1/24/2017 |

Revised 1/2013

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090070123-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe: Flow Bins

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: Project

8. Shipment Size: Quantity: 98.00

9. Waste Import: [ ] Yes [ ] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: HDU2 CATALYST

2. Process Generating: CATALYST CHANGEOUT FROM REFINERY HYDROTREATING UNIT

3. Describe Physical Appearance: GREY TO BLACK SOLIDS

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [ ] Solid

6. Describe Color:

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 7004393H | | | | | |
| 21. RCRA Waste Codes | K171 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G09 | 23. Form Code: W319 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| NICKEL MONOXIDE | % | | 3 | 5 |
| MSDS_TK-431 | | | 0 | 0 |
| TEST AMERICA JOB NO. 600-27903-1 | | | 0 | 0 |
| TEST AMERICA JOB NO. 600-28081-2 | | | 0 | 0 |
| ALUMINUM OXIDE | % | | 75 | 85 |
| Arsenic | MG/L | 1.08 | 0 | 0 |
| 2-METHYLPHENOL | UG/L | | 1.88 | 36.1 |
| 3&4 METHYLPHENOL | UG/L | | 0.9 | 29.8 |
| Molybdenum trioxide | % | | 13 | 17 |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical

20. Flash Point °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

PROFILE # 090070123-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | HDU2 CATALYST | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | Yes | X No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | K050 | K051 |
| K052 | K169 | K170 | X K171 | K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | -5 |
| Solids (excluding Organics/Oil/TPH) | 95 |
| Organics /Oil/TPH | 10 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**

X Solid ☐ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | 2000 |
| % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | |
| Mercury | |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 10000 |
| Sulfides (total) | 10000 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☐ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | X No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

**WASTE / MATERIAL PROFILE FORM**

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090064853-1

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [X] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

2. Hazard Class: 3 | 3. UN/NA #: UN1993 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [X] Other, Describe: tanker

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?:

8. Shipment Size: Quantity: 30,000.00

9. Waste Import: [ ] Yes [ ] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: PIPELINE FLUSH

2. Process Generating: PIPELINE PIGGING

3. Describe Physical Appearance: DARK BROWN TO BLACK LIQUID

4. Odor: [ ] None [ ] Slight [X] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [ ] Solid

6. Describe Color:

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [X] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [ ] Industrial [X] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | NHNI | | | | | |
| 21. RCRA Waste Codes | | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G13 | 23. Form Code: W219 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| NATURAL GAS PIPELINE CONDENSATE | % | | 0 | 20 |
| Mercury | MG/L | 0.92 | 0 | 0 |
| HEAVY AROMATIC NAPHTHA | % | | 10 | 30 |
| BUTAXYETHANOL | % | | 30 | 60 |
| ETHYLENE GLYCOL | % | | 10 | 30 |
| NAPHTHALENE | % | | 1 | 5 |
| OXYALKYLATED ALCOHOL | % | | 1 | 5 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [ ] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 2.00 to 12.50 Typical

20. Flash Point 139 °F [X] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [ ] Yes [X] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| DINA BABINSKI | | | 03/31/2009 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

PROFILE # 090064853-1

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | PIPELINE FLUSH | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 12 |
| Solids (excluding Organics/Oil/TPH) | 1 |
| Organics /Oil/TPH | 87 |

**PROPERTIES (wet weight basis)**

PHYSICAL STATE: ☐ Solid ☒ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | |
| % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | |
| Mercury | |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 2999 |
| Sulfides (total) | |

**Reclamation Facility Coordination Questions**

- ☐ Yes ☒ No Contains Non-Friable Debris Material > 2-inch size? If yes, _____ % vol
- ☐ Yes ☐ No If Catalyst, does material posses self heating properties?
- ☐ Yes ☒ No Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, _____ % vol
- ☐ Yes ☐ No Has the material been processed by a centrifuge prior to shipment?
- ☐ Yes ☒ No Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other _____ ppm
- ☐ Yes ☐ No Does the waste contain any surfactants?

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090064854-1

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [X] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

2. Hazard Class: 3 | 3. UN/NA #: UN1993 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [X] Other, Describe: tanker

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?:

8. Shipment Size: Quantity: 30,000.00

9. Waste Import: [ ] Yes [ ] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: PIPELINE FLUSH

2. Process Generating: PIPELINE PIGGING

3. Describe Physical Appearance: DARK BROWN TO BLACK LIQUID

4. Odor: [ ] None [ ] Slight [X] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [ ] Solid

6. Describe Color:

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [X] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [ ] Industrial [X] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | NHNI | | | | | |
| 21. RCRA Waste Codes | | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G13 | 23. Form Code: W219 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| OXYALKYLATED ALCOHOL | % | | 1 | 5 |
| Mercury | MG/L | 0.92 | 0 | 0 |
| HEAVY AROMATIC NAPHTHA | % | | 10 | 30 |
| BUTOXYETHANOL | % | | 30 | 60 |
| ETHYLENE GLYCOL | % | | 10 | 30 |
| NAPHTHALENE | % | | 1 | 5 |
| NATURAL GAS PIPELINE CONDENSATE | % | | 0 | 20 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [ ] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 2.00 to 12.50 Typical ____

20. Flash Point 139 °F [X] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [ ] Yes [X] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | 03/31/2009 |

US ecology

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090064854-1

# WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | PIPELINE FLUSH | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 12 |
| Solids (excluding Organics/Oil/TPH) | 1 |
| Organics /Oil/TPH | 87 |

**PROPERTIES (wet weight basis)**

PHYSICAL STATE: ☐ Solid ☒ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | |
| % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | |
| Mercury | |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 2999 |
| Sulfides (total) | |

**Reclamation Facility Coordination Questions**

| | | | | |
|---|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | | % vol |
| ☐ Yes | ☐ No | If Catalyst, does material posses self heating properties? | | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | | % vol |
| ☐ Yes | ☐ No | Has the material been processed by a centrifuge prior to shipment? | | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? | ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☐ No | Does the waste contain any surfactants? | | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090064851-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [X] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

2. Hazard Class: 3 | 3. UN/NA #: UN1993 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [X] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?:

8. Shipment Size: Quantity: 30,000.00

9. Waste Import: [ ] Yes [ ] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: PIPELINE FLUSH

2. Process Generating: PIPELIEN PIGGING

3. Describe Physical Appearance: DARK BROWN TO BLACK LIQUID

4. Odor: [ ] None [ ] Slight [X] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [ ] Solid

6. Describe Color:

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [X] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [ ] Industrial [X] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | NHNI | | | | | |
| 21. RCRA Waste Codes | | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G13 | 23. Form Code: W219 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| BUTOXYETHANOL | % | | 30 | 60 |
| ETHYLENE GLYCOL | % | | 10 | 30 |
| HEAVY AROMATIC NAPTHA | % | | 10 | 30 |
| NAPTHALENE | % | | 1 | 5 |
| OXYALKYLATED ALCOHOL | % | | 1 | 5 |
| NATURAL GAS PIPELINE CONDENSATE | % | | 0 | 20 |
| Mercury | MG/L | 0.003 | 0 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [ ] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 2.00 to 12.50 Typical

20. Flash Point 139 °F [X] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [ ] Yes [X] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | 03/31/2009 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090064851-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | PIPELINE FLUSH | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 12 |
| Solids (excluding Organics/Oil/TPH) | 1 |
| Organics /Oil/TPH | 87 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: ☐ Solid ☒ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | |
| **% of ASH** | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | |
| Mercury | |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 2999 |
| Sulfides (total) | |

**Reclamation Facility Coordination Questions**

| | | | | |
|---|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | | % vol |
| ☐ Yes | ☐ No | If Catalyst, does material posses self heating properties? | | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | | % vol |
| ☐ Yes | ☐ No | Has the material been processed by a centrifuge prior to shipment? | | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? | ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☐ No | Does the waste contain any surfactants? | | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090081411-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: Quantity: 0.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: CHLORIDE ABSORBER CATALYST

2. Process Generating: CHLORIDE REMOVAL DURING GASOLINE REFORMING

3. Describe Physical Appearance: WHITE BALLS/ BEADS WITH SOME BLACK FINES AND AN AROMATIC ODOR

4. Odor: [ ] None [ ] Slight [X] Strong | 5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: WHITE | 7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [X] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [ ] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS393H | | | | | |
| 21. RCRA Waste Codes | D018 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G09 | 23. Form Code: WTBD | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: ☐ TCLP ☒ TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Benzene | MG/KG | 76 | 0 | 0 |
| Toluene | | 810 | 0 | 0 |
| Ethylbenzene | | 400 | 0 | 0 |
| XYLENE | | 5800 | 0 | 0 |
| CATALYST SOLIDS | % | | 95 | 100 |
| INORGANIC METALS | % | | 0 | 1 |
| 8260 HOC < 1500 PPM | | | 0 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | ☐ Yes | ☒ No | 9. Reactive Sulfides ____ ppm | ☐ Yes | ☒ No |
| 2. Explosive | ☐ Yes | ☒ No | 10. Reactive Cyanides ____ ppm | ☐ Yes | ☒ No |
| 3. Organic Peroxide | ☐ Yes | ☒ No | 11. Water/Air Reactive | ☐ Yes | ☒ No |
| 4. Shock Sensitive | ☐ Yes | ☒ No | 12. Thermally Unstable | ☐ Yes | ☒ No |
| 5. Tires | ☐ Yes | ☒ No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | ☐ Yes | ☒ No |
| 6. Pyrophoric | ☐ Yes | ☒ No | 14. Medical/Infectious Waste | ☐ Yes | ☒ No |
| 7. Compressed Gases | ☐ Yes | ☒ No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | ☐ Yes | ☒ No |
| 8. Halogenated Organics | ☐ Yes | ☒ No | | | |

16. Hazardous Secondary Material? ☐ Yes ☐ No

17. Possibility of incidental liquids from transporation? ☐ Yes ☒ No

18. Is waste/material a solid using the paint filter test? ☒ Yes (solid) ☐ No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range _____ to _____ Typical 98.60

20. Flash Point 140 °F ☐ < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? ☐ N/A ☒ Yes ☐ No

## F. GENERATOR'S CERTIFICATION

☐ Yes ☒ No I certify this waste/material may be disposed of without further treatment.

☐ Yes ☐ N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090081411-0

## WASTE/MATERIAL PROFILE FORM
THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | CHLORIDE ABSORBER CATALYST | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0 |
| Solids (excluding Organics/Oil/TPH) | 97 |
| Organics /Oil/TPH | 3 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: ☒ Solid ☐ Liquid ☒ Single Phased ☐ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | |
| **% of ASH** | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 310 |
| Mercury | 0 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 1499 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | 05/21/2013 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090081411-0

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: CHLORIDE ABSORBER CATALYST

Process generating the waste/material: CHLORIDE REMOVAL DURING GASOLINE REFORMING

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 76 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: ____ to ____ ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 5/23/2013 |

Revised 1/2013

# US ecology

## WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090092326-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billing information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: [redacted] |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE SOLID, N.O.S. (CLARIFIED SLURRY OIL)

2. Hazard Class: 9 | 3. UN/NA #: NA3077 | 4. Packaging Group: II | 5. RQ: 100.00

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [X] Year [ ] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: 20 YARDS Quantity: 1.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: PPE CONTAMINATED W/K170 CLARIFIED SLURRY OIL

2. Process Generating: TANK CLEANING

3. Describe Physical Appearance: VARIES

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [ ] Sludge/Slurry [X] Solid

6. Describe Color: BLACK, VARIES

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [ ] N/A [X] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [ ] Non-Wastewater [X] Debris(§268.2) 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [X] <500 ppmw [ ] ≥500ppmw 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS319H | | | | | |
| 21. RCRA Waste Codes | K170 | | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G09 | 23. Form Code: W609 | 24. Management Code: H132 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| PPE CONTAMINATED W/ CLARIFIED SLURRY OIL | % | 0 | 90 | 95 |
| Benzene | PPM | 0 | 0 | 200 |
| WATER | % | 0 | 5 | 5 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical [ ] <= 2 [X] 2<12.5 [ ] ≥12.5

20. Flash Point > 200 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 08/10/2015 |

US ecology

**U.S. ECOLOGY TEXAS, INC.**

**PROFILE #** 090092326-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

### A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | PPE CONTAMINATED W/K170 CLARIFIED SLURRY OIL | | |

### B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☒ K170 | ☐ K171 | ☐ K172 | ☐ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

### C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 0 |
| Solids (excluding Organics/Oil/TPH) | 70 |
| Organics /Oil/TPH | 30 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**: ☒ Solid ☐ Liquid ☐ Single Phased ☐ Multi-Phased

| | |
|---|---|
| Heating Value Btu/Lb | |
| % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 2320 |
| Mercury | 0.04 |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 1400 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

### D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 08/10/2015 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090092326-0

# WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: PPE CONTAMINATED W/K170 CLARIFIED SLURRY OIL

Process generating the waste/material: TANK CLEANING

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [ ] Yes [X] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 1 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% [ ] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: 0 to 200 ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [X] None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 8/10/2015 |

Revised 1/2013

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090076026-1

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [ ] Billling information is same [X] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: [redacted] | 16. Phone: ( ) - 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG | 18. Email: |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 324110 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, LIQUID, N.O.S.

2. Hazard Class: 9 | 3. UN/NA #: NA3082 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: as needed

8. Shipment Size: Quantity: 10,000.00

9. Waste Import: [ ] Yes [ ] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: PROCESS WASTE LIQUIDS (WITH CHLORIDES) FOR THERMAL RECYCLING

2. Process Generating:

3. Describe Physical Appearance: BLACK OILY LIQUIDS

4. Odor: [ ] None [X] Slight [ ] Strong | 5. Physical State: [ ] Liquid [ ] Sludge/Slurry [ ] Solid

6. Describe Color: | 7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [ ] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2) | 12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw | 15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No | 17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0159219H | | | | | |
| 21. RCRA Waste Codes | D001 | D018 | D039 | D040 | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G07 | 23. Form Code: W219 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [ ] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Benzene | PPM | 25 | 0 | 1000 |
| Ethylbenzene | % | 0.35 | 0 | 1 |
| GLYCOL | % | | 0 | 10 |
| Tetrachloroethylene | % | | 0 | 0.2 |
| Toluene | % | | 0 | 3 |
| Trichloroethylene | % | | 0 | 0.02 |
| WASTE OIL (TPH) | % | 50 | 50 | 100 |
| WATER | % | 50 | 50 | 100 |
| Xylene (mixed isomers) | % | | 0 | 5 |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ____ ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ____ ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [ ] Yes [X] No

18. Is waste/material a solid using the paint filter test? [ ] Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 5.00 to 12.00 Typical 6.14

20. Flash Point 85 °F [X] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090076026-1

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | PROCESS WASTE LIQUIDS (WITH CHLORIDES) FOR THERMAL RECYCLING | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | ☐ Yes | ☒ No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | ☐ Yes | ☒ No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | ☐ Yes | ☒ No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| ☐ F037 | ☐ F038 | ☐ K048 | ☐ K049 | ☐ K050 | ☐ K051 |
| ☐ K052 | ☐ K169 | ☐ K170 | ☐ K171 | ☐ K172 | ☒ No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 50 |
| Solids (excluding Organics/Oil/TPH) | 0 |
| Organics /Oil/TPH | 50 |

**PROPERTIES (wet weight basis)**

**PHYSICAL STATE**

☐ Solid ☒ Liquid ☐ Single Phased ☒ Multi-Phased

| | |
|---|---|
| **Heating Value Btu/Lb** | |
| **% of ASH** | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | |
| Mercury | |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 1000 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| ☐ Yes | ☒ No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| ☐ Yes | ☒ No | If Catalyst, does material posses self heating properties? | |
| ☐ Yes | ☒ No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| ☐ Yes | ☒ No | Has the material been processed by a centrifuge prior to shipment? | |
| ☐ Yes | ☒ No | Contains fuel oxygenates? ☐ MTBE ☐ Ethanol ☐ Other | ppm |
| ☐ Yes | ☒ No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090076026-1

## WASTE/MATERIAL PROFILE FORM

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

### A. GENERATOR INFORMATION

Name of Originating Facility: [redacted]

EPA Generator #: [redacted]

Waste/Material Common Name: PROCESS WASTE LIQUIDS (WITH CHLORIDES) FOR THERMAL RECYCLING

Process generating the waste/material:

Type of Facility: [X] Refinery (SIC 2911) [ ] Coke by-products recovery (SIC 3312) [ ] Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [ ] < 1 Megagram (2,204 lbs) [ ] ≥1 but <10 Megagram [X] ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? [X] Yes [ ] No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

### B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 25 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [ ] ≤10% [X] >10%

Is this Process Unit Turnaround waste/material? [ ] Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: 0 to 1000 ppmw

This waste/material is classified as: [ ] Process wastewater stream [ ] Product tank drawdown [ ] Landfill leachate [ ] None of the three

### C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 4/12/2012 |

Revised 1/2013

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090100182-0

## A. CUSTOMER INFORMATION

| | |
|---|---|
| 1. Generator [redacted] | [X] Billing information is same [ ] P.O. required for payment |
| 2. Facility Address: [redacted] | 12. Billing Company: [redacted] |
| 3. Mailing Address: [redacted] | 13. Billing Address: [redacted] |
| 4. City/State/Zip [redacted] | 14. City/State/Zip: [redacted] |
| 5. Technical Contact: [redacted] | 15. Billing Contact: [redacted] |
| 6. Phone: [redacted] 7. Fax: ( ) - | 16. Phone: [redacted] 17. Fax: ( ) - |
| 8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [ ] LQG | 18. Email: [redacted] |
| 9. EPA ID# [redacted] | 10. State ID# [redacted] |
| 11. NAICS/SIC Codes: 56221 | |

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: FLAMMABLE LIQUID, N.O.S.

2. Hazard Class: 3 | 3. UN/NA #: UN1993 | 4. Packaging Group: III | 5. RQ:

6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:

7. Frequency: [X] Year [ ] QTR [ ] Month [ ] 1 Time [ ] Other Describe?:

8. Shipment Size: Quantity: 10,000.00

9. Waste Import: [ ] Yes [X] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: TANK SLUDGE

2. Process Generating: REMOVAL OF SLUDGE FROM FUEL PRODUCT TANK

3. Describe Physical Appearance: BLACK SLUDGE WITH FREE LIQUIDS

4. Odor: [ ] None [X] Slight [ ] Strong

5. Physical State: [ ] Liquid [X] Sludge/Slurry [ ] Solid

6. Describe Color: GAS FUEL

7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer

8. Knowledge is from: [X] Lab Analysis [ ] MSDS [ ] Process/Generator Knowlege

9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial

10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No

11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)

12. Alt. Standards for soil? [ ] Yes [X] No

13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? (If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form): [ ] Yes [X] No

14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw

15. Has it been treated after point of generation? [ ] Yes [X] No

16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No

17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No

18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [X] Yes [ ] No

19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | 0008114H | | | | | |
| 21. RCRA Waste Codes | D001 | D018 | | | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G14 | 23. Form Code: W110 | 24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: ☐ TCLP ☐ TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| SAND GRIT RUST SCALE AND SEDIMENT | % | | 40 | 60 |
| HEAVY PETROLEUM SOLIDS | % | | 5 | 15 |
| GAS FUEL OIL | % | | 1 | 5 |
| WATER | % | | 25 | 60 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | ☐ Yes | [X] No | 9. Reactive Sulfides ____ ppm | ☐ Yes | [X] No |
| 2. Explosive | ☐ Yes | [X] No | 10. Reactive Cyanides ____ ppm | ☐ Yes | [X] No |
| 3. Organic Peroxide | ☐ Yes | [X] No | 11. Water/Air Reactive | ☐ Yes | [X] No |
| 4. Shock Sensitive | ☐ Yes | [X] No | 12. Thermally Unstable | ☐ Yes | [X] No |
| 5. Tires | ☐ Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | ☐ Yes | [X] No |
| 6. Pyrophoric | ☐ Yes | [X] No | 14. Medical/Infectious Waste | ☐ Yes | [X] No |
| 7. Compressed Gases | ☐ Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | ☐ Yes | [X] No |
| 8. Halogenated Organics | ☐ Yes | [X] No | | | |

16. Hazardous Secondary Material? ☐ Yes [X] No

17. Possibility of incidental liquids from transporation? [X] Yes ☐ No

18. Is waste/material a solid using the paint filter test? ☐ Yes (solid) [X] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range ____ to ____ Typical ____ ☐ <= 2 [X] 2<12.5 ☐ ≥12.5

20. Flash Point 108 °F [X] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? ☐ N/A ☐ Yes [X] No

## F. GENERATOR'S CERTIFICATION

☐ Yes [X] No I certify this waste/material may be disposed of without further treatment.

☐ Yes ☐ N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090100182-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | TANK SLUDGE | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | [ ] Yes | [X] No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | [ ] Yes | [X] No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | [X] Yes | [ ] No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| [ ] F037 | [ ] F038 | [ ] K048 | [ ] K049 | [ ] K050 | [ ] K051 |
| [ ] K052 | [ ] K169 | [ ] K170 | [ ] K171 | [ ] K172 | [X] No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

SLUDGE REMOVED FROMTHE BOTTOM OF A FUEK RECOVERY TANK

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 60 |
| Solids (excluding Organics/Oil/TPH) | 30 |
| Organics /Oil/TPH | 10 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | 5000 |
|---|---|---|---|---|---|
| [ ] Solid | [ ] Liquid | [ ] Single Phased | [X] Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | 10000 |
| Mercury | 0.2 |
| SVM (Pb, Cd) | 5 |
| LVM (As, Be, Cr) | 5 |
| Organic Chlorine from VOCs | 1000 |
| Sulfides (total) | 1000 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| [ ] Yes | [X] No | Contains Non-Friable Debris Material > 2-inch size? If yes, _____ | % vol |
| [ ] Yes | [X] No | If Catalyst, does material posses self heating properties? | |
| [ ] Yes | [X] No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, _____ _____ | % vol |
| [ ] Yes | [X] No | Has the material been processed by a centrifuge prior to shipment? | |
| [X] Yes | [ ] No | Contains fuel oxygenates? [ ] MTBE [ ] Ethanol [ ] Other _____ | ppm |
| [X] Yes | [ ] No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| [redacted] | | [redacted] | 03/02/2017 |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

US ecology

# WASTE / MATERIAL PROFILE FORM

- [ ] US Ecology Nevada (Beatty) usencs@usecology.com
- [ ] US Ecology Idaho (Grandview) useics@usecology.com
- [x] US Ecology Texas (Robstown) usetcs@usecology.com
- [ ] US Ecology Michigan (Detroit) usemcs@usecology.com

**PROFILE #** 090073834-0

## A. CUSTOMER INFORMATION

1. Generator [redacted]
2. Facility Address: [redacted]
3. Mailing Address: [redacted]
4. City/State/Zip [redacted]
5. Technical Contact:
6. Phone: ( ) -
7. Fax: [redacted]
8. Generator Status : [ ] VSQG/CESQG [ ] SQG, [X] LQG
9. EPA ID# [redacted]
10. State ID# [redacted]
11. NAICS/SIC Codes: 324110

[X] Billling information is same [ ] P.O. required for payment

12. Billing Company: [redacted]
13. Billing Address: [redacted]
14. City/State/Zip: [redacted]
15. Billing Contact: [redacted]
16. Phone: [redacted]
17. Fax: ( ) -
18. Email:

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.
2. Hazard Class: 9
3. UN/NA #: NA3077
4. Packaging Group: III
5. RQ: 1.00
6. Container Type: [X] Bulk [ ] Totes [ ] Pallet [ ] Bags [ ] Drums [ ] Boxes [ ] Other, Describe:
7. Frequency: [ ] Year [ ] QTR [ ] Month [ ] 1 Time [X] Other Describe?: AS Needed
8. Shipment Size: 1 Roll-Off Quantity: 0.00
9. Waste Import: [ ] Yes [ ] No
*If yes, complete Waste Import Supplement*

## C. GENERAL MATERIAL & REGULATORY INFORMATION

1. Common Name: WASH PAD SLUDGE
2. Process Generating: WASH PAD SLUDGE
3. Describe Physical Appearance: BROWN TO BLACK SOLID/SEMI-SOLID
4. Odor: [ ] None [X] Slight [ ] Strong
5. Physical State: [ ] Liquid [ ] Sludge/Slurry [ ] Solid
6. Describe Color:
7. Liquid phases: [ ] Single [ ] Double Layer [ ] Multi-layer
8. Knowledge is from: [X] Lab Analysis [ ] MSDS [X] Process/Generator Knowlege
9. Waste/Material Type (US Ecology Texas customers only): [X] N/A [ ] Industrial [ ] Non-Industrial
10. Restricted under EPA Land Disposal Restrictions (§268): [X] Yes [ ] No
11. If LDR "Yes": [ ] Wastewater [X] Non-Wastewater [ ] Debris(§268.2)
12. Alt. Standards for soil? [ ] Yes [X] No
13. Is the material RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-product Recovery Plant (SIC 3312)? [X] Yes [ ] No
(If "Yes" complete Benzene Waste/Material Operations Supplement Form and Thermal Supplement Form):
14. VO Conc.(§264.1083) : [ ] <500 ppmw [X] ≥500ppmw
15. Has it been treated after point of generation? [ ] Yes [X] No
16. CERCLA Regulated (Superfund) Waste [ ] Yes [X] No
17. Butadiene waste regulated by §63 Subpart XX: [ ] Yes [X] No
18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If "yes", list all UHC's in Section D): [ ] Yes [X] No
19. Waste exempt from definition of "solid waste" or "hazardous waste" (If "Yes", list reference 40CFR [ ] Yes [X] No

| | | | | | | |
|---|---|---|---|---|---|---|
| 20. State Waste Codes | OUTS603H | | | | | |
| 21. RCRA Waste Codes | D002 | D039 | D040 | K050 | | |
| | | | | | | |
| | | | | | | |

22. Source Code: G09
23. Form Code: W603
24. Management Code: H039 (USE only)

## D. COMPOSITION

Values are: [X] TCLP [X] TOTALS Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| Arsenic | MG/L | 0.364 | 0 | 0 |
| Benzene | MG/KG | 9.9 | 0 | 100 |
| Ethylbenzene | MG/KG | | 0 | 100 |
| Mercury | MG/L | 0.00139 | 0 | 0 |
| POTASSIUM HYDROXIDE SOLUTION | % | | 0 | 20 |
| RUST SCALE/DIRT/SLUDGE | % | | 80 | 100 |
| TETRACHLOROETHENE | MG/L | 4.8 | 0 | 0 |
| TOTAL HYDROCARBONS | % | | 1 | 5 |
| TRICHLOROETHENE | MG/L | 0.74 | 0 | 0 |
| Toluene | MG/KG | | 0 | 100 |
| WATER | % | | 0 | 9.9 |

## E. CHARACTERISTICS

| | | | | | |
|---|---|---|---|---|---|
| 1. Oxidizer | [ ] Yes | [X] No | 9. Reactive Sulfides ppm | [ ] Yes | [X] No |
| 2. Explosive | [ ] Yes | [X] No | 10. Reactive Cyanides ppm | [ ] Yes | [X] No |
| 3. Organic Peroxide | [ ] Yes | [X] No | 11. Water/Air Reactive | [ ] Yes | [X] No |
| 4. Shock Sensitive | [ ] Yes | [X] No | 12. Thermally Unstable | [ ] Yes | [X] No |
| 5. Tires | [ ] Yes | [X] No | 13. TSCA Regulated PCB Waste (control sheet required with shipment) | [ ] Yes | [X] No |
| 6. Pyrophoric | [ ] Yes | [X] No | 14. Medical/Infectious Waste | [ ] Yes | [X] No |
| 7. Compressed Gases | [ ] Yes | [X] No | 15. Radioactive *(If yes, complete Profile Supplement for Radioactive Waste)* | [ ] Yes | [X] No |
| 8. Halogenated Organics | [ ] Yes | [X] No | | | |

16. Hazardous Secondary Material? [ ] Yes [ ] No

17. Possibility of incidental liquids from transporation? [X] Yes [ ] No

18. Is waste/material a solid using the paint filter test? [X] Yes (solid) [ ] No (not solid)

19. pH *(If solid, what is pH if mixed with water?)* Range 8.00 to 14.00 Typical 14.00

20. Flash Point 212 °F [ ] < 140° F

21. Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices? [ ] N/A [X] Yes [ ] No

## F. GENERATOR'S CERTIFICATION

[ ] Yes [X] No I certify this waste/material may be disposed of without further treatment.

[ ] Yes [ ] N/A I certify this waste/material meets all requirements of legitimate recycling of Hazardous Secondary Materials under 40 CFR 260.43 and/or I am complying with the conditions for generators using the verified recycler exclusion.

I authorize US Ecology to correct inconsistencies on the waste/material profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste/material profile information if substantial changes are determined necessary. I understand waste/material that does conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties.

I certify, under penalty of law, that I am familiar with this waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that is form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

## D. MATERIAL COMPOSITION CONTINUED

Waste Stream: 090073834-0

Values are: [X] TCLP [X] TOTALS

Range total ≥ 100%

| Constituent | Units | Typical | Min | Max |
|---|---|---|---|---|
| XYLENE | MG/KG | | 0 | 200 |

US ecology

# U.S. ECOLOGY TEXAS, INC.

**PROFILE #** 090073834-0

## WASTE/MATERIAL PROFILE FORM

THERMAL SUPPLEMENT

This form must be completed for all waste/material processed by US Ecology's Oil Reclamation Facility.

Oil bearing hazardous waste from petroleum refining, production or transportation practices will be recycled to generate a RCRA excluded fuel. Petroleum refining wastes/materials are those generated by processes engaged in producing hydrocarbon products such as gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, etc., through fractionation or straight distillation of crude oil, redistillation of unfinished petroleum derivatives, including cracking, gasification or other processes. This industry also produces aliphatic and aromatic chemicals as by-products. Waste/material generated through petroleum and natural gas production and transportation practices supporting this industry, such as crude petroleum extraction, transportation and bulk storage of petroleum products, natural gas extraction, transmission, distribution and storage will also be recycled to generate a RCRA excluded fuel.

Hazardous Secondary Materials (HSM) having similar chemical properties as petroleum refining wastes will also be recycled. Hazardous wastes not meeting the above criteria will be disposed, with the recovered oil being managed at an offsite RCRA TSDF.

## A. GENERATOR INFORMATION

| | | | |
|---|---|---|---|
| Name of Originating Facility: | [redacted] | | |
| Name of Generator: | [redacted] | EPA Generator #: | [redacted] |
| Waste/Material Stream Name: | WASH PAD SLUDGE | | |

## B. CHARACTERISTICS

| | | |
|---|---|---|
| Is the waste/material oil bearing from Petroleum Refining, Production or Transportation practices (see description above)? | Yes | X No |
| Is the waste/material RCRA excluded Hazardous Secondary Material (HSM)? | Yes | X No |
| For "characteristics byproducts" that are not excluded petroleum refining OBHW, are the oil constituents fuel themselves? | Yes | X No |

**The Petroleum Refining listed waste code associated with waste is:**

| | | | | | |
|---|---|---|---|---|---|
| F037 | F038 | K048 | K049 | X K050 | K051 |
| K052 | K169 | K170 | K171 | K172 | No Petroleum Refining Listed Waste Code Applies |

If no Petroleum Refining Listed Waste Code applies, please provide a detailed description of the process generating the waste/material.

## C. COMPOSITION

| PRIMARY COMPONENTS | TYPICAL % (Should total 100%) |
|---|---|
| Water | 28 |
| Solids (excluding Organics/Oil/TPH) | 70 |
| Organics /Oil/TPH | 2 |

**PROPERTIES (wet weight basis)**

| PHYSICAL STATE | | | | Heating Value Btu/Lb | |
|---|---|---|---|---|---|
| X Solid | Liquid | Single Phased | Multi-Phased | % of ASH | |

| Specific Constituents (ppm) | |
|---|---|
| Halogens* | |
| Mercury | |
| SVM (Pb, Cd) | |
| LVM (As, Be, Cr) | |
| Organic Chlorine from VOCs | 999 |
| Sulfides (total) | 0 |

**Reclamation Facility Coordination Questions**

| | | | |
|---|---|---|---|
| Yes | X No | Contains Non-Friable Debris Material > 2-inch size? If yes, | % vol |
| Yes | X No | If Catalyst, does material posses self heating properties? | |
| Yes | X No | Contains Bitumen / Asphalt / Tar > 1% (wt.)? If yes, | % vol |
| Yes | X No | Has the material been processed by a centrifuge prior to shipment? | |
| Yes | X No | Contains fuel oxygenates? MTBE Ethanol Other | ppm |
| Yes | X No | Does the waste contain any surfactants? | |

## D. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Printed Name | Signature | Title | Date |
|---|---|---|---|
| | | | |

*Halogens: Total Halogens includes Fluorine, Chlorine, Bromine and Iodine. Report weight (ppm) as Halogens.

(effective date 11/01/16)

U.S. ECOLOGY TEXAS, INC.

PROFILE # 090073834-0

**WASTE/MATERIAL PROFILE FORM**

BENZENE WASTE OPERATIONS SUPPLEMENT (BWON 40 CFR Part 61 Subpart FF)

This form must be completed for all hazardous waste/material containing benzene originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312).

## A. GENERATOR INFORMATION

Name of Originating Facility: [redacted] | EPA Generator #: [redacted]

Waste/Material Common Name: WASH PAD SLUDGE

Process generating the waste/material: WASH PAD SLUDGE

Type of Facility: ☐ Refinery (SIC 2911) ☐ Coke by-products recovery (SIC 3312) ☐ Chemical manufacturing (SIC 2800 thru 2899)

Facility Total Annual Benzene Status (TAB): [X] < 1 Megagram (2,204 lbs) ☐ ≥1 but <10 Megagram ☐ ≥10 Megagram

Is the waste/material being transferred to US Ecology for offsite treatment compliance with 40 CFR Part 61.342(f)? ☐ Yes ☐ No*

By indicating "Yes", notice is provided that the waste/material referenced in this profile is subject to 40 CFR Part 61 Subpart FF (National Emission Standards for Benzene Waste Operations). All shipments under this profile are being transferred to US Ecology for the destruction or removal of benzene in accordance with 40 CFR Part 61.342 (C)(1)(i).

## B. CHARACTERISTICS

The flow-weighted annual average benzene content by weight or process turnaround total concentration of this waste/material is: 9.9 ppmw

(Benzene concentration data must be total concentration by weight. DO NOT USE TCLP CONCENTRATIONS.)

The weighted average water content is? [X] ≤10% ☐ >10%

Is this Process Unit Turnaround waste/material? ☐ Yes [X] No

*Only if you answered "No" for offsite treatment compliance above, please supply the following:

Range of benzene total concentration: _____ to 100 ppmw

This waste/material is classified as: ☐ Process wastewater stream ☐ Product tank drawdown ☐ Landfill leachate ☐ None of the three

## C. CERTIFICATION

I certify under penalty of law that I am familiar with the waste/material stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that this form was completed in accordance with the instructions provided.

| Print Name | Signature | Title | Date |
|---|---|---|---|
| | | | 9/16/2011 |

Revised 1/2013