Screening Level Ecological Risk Assessment for the Radford Army Ammunition Plant Open Burning Grounds Permit, Radford, Virginia

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Section 1.0: Overview/Introduction

A Screening Level Ecological Risk Assessment (SLERA) has been performed as a requirement of the permitting application process for the Radford Army Ammunition Plant (RFAAP) Open Burning Grounds (OBG) under the Virginia Department of Environmental Quality's (DEQ) authority of the RCRA Omnibus provision granted by Title 40 Code of Federal Regulations (CFR) Part 270.32(b)(2). The SLERA will be used to inform and support risk management decisions regarding permitting limits associated with the amount of waste that can be treated at the OBG.

The SLERA is intended as a conservative evaluation of ecological risks resulting from the deposition of air emissions from facility operations. This SLERA relies on data and assumptions that have been updated since the previous permitting process to reflect additional investigations to collect site-specific data of the emissions from the RFAAP OBG. More information regarding these data collection efforts can be found in Section 3 of this report. Note, this evaluation does not include risks related to other facility operations, other fate and transport mechanisms that may be associated with the OBG, or risks related to other sources around the facility that may contribute to ecological risks.

Many descriptions, figures, and tables contained in this report are taken directly from the final Multi-pathway Risk Assessment Protocol (MRAP) for the Radford Army Ammunition Plant Open Burning Grounds produced by Coterie Environmental (2019).

Section 2.0: Conceptual Site Model

Section 2.1: Facility Overview

BAE Systems operates a munitions propellant manufacturing facility at the RFAAP in Radford, Virginia. The primary mission of the RFAAP is to supply solvent and solventless propellant and explosives to the United States Armed Forces. The RFAAP is a government-owned, contractor operated, military industrial installation under the jurisdiction of the United States Army. Manufacturing operations at the
RFAAP commenced in 1941 and have been in continuous operation ever since. Currently, the RFAAP is recognized as the largest supplier of ammunition propellant to the United States Department of Defense
(DOD) and as a major producer of medium caliber ammunition and commercial and military smokeless powder. The RFAP also hosts tenant companies at the facility which are involved in the production of propellant for commercial purposes. Tenant waste is also treated at the OBG under the RCRA permit.

The RFAAP is situated in hilly terrain in Pulaski and Montgomery Counties in southwest Virginia and is divided into two sections: the main plant, and the horseshoe area. The New River separates the two counties and these two portions of the facility. The OBG is located in the lower southeast portion of the horseshoe area. Surrounding land use is primarily a combination of deciduous forest and pasture land, intermingled with small residential areas. The main developed areas are Blacksburg to the northwest, Christiansburg to the east, and Radford to the southwest.

Various types of hazardous waste are generated as part of the RFAAP production operations. These wastes are managed via one of three mechanisms. The hazardous energetic wastes are treated onsite in either the hazardous waste incinerators or the OBG. Non-energetic hazardous wastes are generally sent offsite for treatment and/or disposal. The OBG receives those wastes that cannot otherwise be treated in the hazardous waste incinerators. This includes wastes containing foreign object debris such as screws, rocks, etc., that are collected in pits in the operating areas of the facility. In addition, wastes that are too large to process through the incinerators' waste preparation system are managed at the OBG. Combined, these wastes represent less than 40 percent of the total hazardous waste generated and managed onsite (Coterie, 2019).

Section 2.2: Release Profile

Releases from the OBG have been estimated using a combination of direct measurement through drone testing and data from the AP-42 bang box studies using items potentially contained in the RFAAP waste stream (Coterie, 2019). The MRAP developed a list of contaminants of potential concern (COPCs) based on these data along with corresponding estimates of emissions factors to be used in the dispersion modeling that media concentrations used in the SLERA were estimated from. Emissions from the OBG treatment facility include constituents composed of dioxins and furans, nitroaromatics, phthalates, semivolatile and volatile organic compounds, chlorine and perchlorates, and metals. A list of COPCs and the associated emissions factors are presented in Appendix C, Table 1. RFAAP treats 20 groups of waste streams at the OBG using either propellant or skid burns.

Propellant burns are composed almost entirely of energetic material which is laid directly on pans and ignited. Skid burns include much variable energetic waste and potentially includes soil and foreign object debris placed on wooden pallets along with cardboard and fuel oil meant to sustain the burns. Propellant burns are typically very short, lasting anywhere from 30 seconds to 5 minutes and quickly consume the energetic material treated. Skid burns last significantly longer, with the wood portions of the material treated potentially burning for up to seven hours. However, the OBODM model has a maximum burn time of 1 hour and this value was used in the dispersion modeling discussed elsewhere in this report. The OBG has a maximum daily treatment capacity of roughly 8,000 pounds, though typical operations treat significantly less waste and are constrained by meteorological considerations such as precipitation and wind. Over the past 3 years, the average amount of waste treated at the OBG was 374,000 pounds per year.

More information regarding the burn scenarios used in the dispersion modeling and the SLERA is contained in Appendix C, Table 2.

Section 2.3: Study Area

Preliminary consideration of the air modeling results provided with the initial MPRA suggests that the most significant locations for maximum ground level air concentrations or deposition rates for the OBG will occur to the southeast of the facility within the first three kilometers. Offsite exposures in this direction are mitigated by Price Mountain, which bounds the southeastern portion of the facility. For the MPRA, however, USEPA guidance indicates that a 10-kilometer (km) radius is usually more appropriate for air dispersion and deposition modeling (USEPA 2005). Figure 1 shows this larger area on a map along with the 3-km and 10-km markers (Coterie, 2019).

Section 2.4: Ecological Setting

Within the assessment area, RFAAP identified potential terrestrial habitats, including primarily forested and agricultural habitats, and potential aquatic habitats, including freshwater lakes, streams, marshes, and wetlands. Appendix C, Table 3 provides a distribution of the top 99 percent of the habitats within the assessment area. The remaining 13 habitats not shown on Appendix C, Table 3 represent less than 1 percent of the assessment area and do not contain any special ecological areas or endangered, threatened, and imperiled species that would warrant their unique attention. Of the eight habitats that make-up 99 percent of the assessment area, seven are terrestrial and one is aquatic. The eight habitats can be further consolidated into three main habitats as follows:

Section 2.5: Prairie-Like Habitat

The Prairie habitat is defined in this assessment as those areas shown as agricultural, developed, or shrubland/grassland area on the detailed habitat map in Figure 2. It represents approximately 49 percent of the study area. While not truly a prairie, these areas, like a prairie, often include temperate grasslands and a composition of grasses, herbs and shrubs as the dominant vegetation type. Trees and shrubs are largely absent. Grazing by large mammals and farming by local populations prevent woody shrubs and trees from becoming established. A few trees such as cottonwoods, oaks and willows grow in river valleys, and a few hundred species of flowers grow among the grasses. These grasses support numerous types of terrestrial insects, such as beetles and butterflies, as well as other terrestrial invertebrates such as ticks and snails. As would be expected, the clear open fields are ideally suited for predatory birds, and the vegetation and abundant insect life support a variety of insectivorous and herbivorous birds. Numerous reptiles, such as snakes and turtles, as well as small, insectivorous and herbivorous mammals like mice, moles, and rabbits, can be found hiding among the short grasses. In addition to the predatory birds, higher trophic level mammals such as coyotes, foxes, and weasels can be found in this

short-grass prairie habitat. Except for these large predatory species, this short-grass prairie habitat shares many of the same lower trophic level species as those found in the Forest habitat.

Two of the seven terrestrial habitats (agriculture and developed) have plant life comprised primarily of grasses and shrubs and have animal species common to open fields and grasslands. The plants and animal species found within this area are similar to those encountered in a prairie habitat. The prairie-like habitat is also home to one of the endangered species identified in Appendix C, Table 4.

Section 2.6: Forest Habitat

The Forest habitat is defined in this assessment as those areas classified as some type of forest on the detailed habitat map in Figure 2. It represents approximately 48 percent of the study area. The forest habitat consists of low to mid-elevations and low to moderate moisture dominated by hardwood trees. Shrub and herb layers are similarly rich, and a mixture of flowering plants and ferns can be found along the forest floor with a variety of insects and other invertebrates roaming through them. The forest is typical of sheltered, shady places in the Blue Ridge and Appalachian Mountains, forming large patches (tens to hundreds of acres) on concave slopes that accumulate nutrients and moisture. The moisture-rich environment works to support several amphibian populations, including various frogs and toads. The lush vegetation and rocky outcrops also serve as home to a diverse population of snakes, including both venomous and non-venomous varieties. Turtles can also be found along the many streams that wind down the hilly slopes. Numerous insectivorous and herbivorous birds also call the forest habitat home, with many varieties of sparrows, warblers, and wrens being reported.

Although not as numerous, predatory birds, including eagles, falcons, hawks, owls and turkeys, can also be found within the forest. The vast majority of mammals are from lower trophic levels, with numerous bats, rabbits, mice, shrews and squirrels being reported. Predatory mammals include bears, bobcats, coyotes, foxes, raccoons, and weasels. As noted above, except for the larger predators, many of the animal species found in the Forest habitat have also been reported in the nearby prairies. In fact, approximately half of the species identified in the animal surveys were found in both the forest and prairie habitat areas.

Both of the specifically protected ecological areas identified within the study area, the Jefferson National Forest and Wildwood Park, are located within this habitat. In addition, many of the flowering plants that have been listed as endangered and the endangered bat species can be found within this habitat. The Henslow's sparrow and the hellbender salamander, both of which are reported as near threatened, are also present within this habitat. In addition, several flowering plans, insects and other soil invertebrates, and one species of wren that is identified as imperiled or critically imperiled can be found in the forest. Therefore, inclusion of this habitat in the SLERA, helps ensure protection of these endangered and threatened endangered species.

The other five terrestrial habitats shown in Appendix C, Table 3 have plant life primarily comprised of forest plants and trees and animal species common to wooded environments. The habitats represent a combination of hardwood forests, with generally similar plant and animal life. Many of the invertebrates and flowering plants identified in Appendix C, Table 4 are located in the forest habitat. In addition, the bat species also finds its home among the trees and caves of the hardwood forest (Coterie, 2019).

Section 2.7: Freshwater Habitat

The remaining habitat that rounds out the top 99 percent of the area is what has been deemed the freshwater habitat. This area includes the various creeks, streams, and wetland areas that makeup the assessment area. Found within these waterbodies are the insects, crustaceans, mollusks, and fish identified in Appendix C, Table 4. The Freshwater habitat is defined in this assessment as those areas classified in Figure 3 as open water, ponds, swamps, marshes, and floodplain regions. It represents approximately 2 percent of the study area. The freshwater habitat includes main river channels and portions of lakes, ponds, and backwaters that remain permanently flooded all year and appear less than 10% vegetated. These freshwater areas and the adjacent riparian zones serve as home to a variety of plants and animals. Sedges and other plants that prefer moist soils can be found within the freshwater habitat, as can a variety of insects such as beetles, butterflies, flies, and moths. The aquatic crustaceans and mollusks, such as crayfish, mussels, and snails, serve as a ready food source for many of the animals within this habitat. As would be expected, many different amphibians can be found in the freshwater habitat, including toads, salamanders, and frogs. Reptiles, such as turtles and water snakes, can often be found basking on the edge of the waterbodies in this habitat. As with the other habitats, avian species include a combination of lower and higher trophic level species, such as the insectivorous woodcock, the herbivorous goose, and the predatory eagles, falcons, herons, and ospreys. The birds, as well as many of the mammals in the habitat, feed on the many fish species that are found here. Large fish such as bass, bluegills, catfish, darters, sculpin, and trout can be found throughout, as can a variety of feeder fish such as minnows and shiners. Mammals include bears, beavers and otters, lemmings, and raccoons.
The wetlands identified in the National Wetlands Inventory are included within the Freshwater habitat. Connelly's Run, as it flows through Wildwood Park, is also included in this habitat. In addition to these special ecological areas, the endangered Roanoke logperch and the James spiny mussel can be found in this habitat. Several near-threatened darter fish and dragonflies and imperiled crustaceans are also found here. Therefore, inclusion of this habitat in the SLERA, helps ensure protection of these endangered and threatened endangered species (Coterie, 2019).

Section 2.8: Food Webs

The prairie food web shown in Figure 4 consists of terrestrial plants that occupy Trophic Level 1 (TL1) and that serve as the source of food for the herbivorous birds and mammals of TL2 and the omnivorous members of TL3. Insects and other herbivorous invertebrates also occupy TL2 in

this food chain and serve as a feeding source for the insectivorous birds, amphibians, reptiles, and mammals of TL3. The TL4 families include carnivorous birds, reptiles, and mammals that feed on the lower trophic level plants and animals. In total nearly 1,100 different species of plants and animals were identified in the prairie habitat. These were distributed between the various trophic levels as follows:

- TL1 – 220 different species, consisting of over 100 different plants, 83 different birds, and various other invertebrates, amphibians, and mammals. These species are exposed to OBG emissions via uptake of deposited COPCs through the soil.

- TL2 – Nearly 290 different species, consisting largely of insects, butterflies, skippers, and other terrestrial invertebrates, as well as a limited number of birds and mammals. The TL2 members are assumed to be exposed to site contaminants via their ingestion of soil, plants, and drinking water.

- TL3 – Just over 20 different species, consisting largely of birds, as well as a limited number of reptiles and mammals. These species are exposed to OBG emissions via the consumption of lower trophic level species, as well as direct exposure via drinking water intake and incidental soil ingestion.

- TL4 – 50 different species, consisting of birds and reptiles, as well as a few predatory mammals. These species are exposed to OBG emissions via the consumption of lower trophic level species, as well as direct exposure via drinking water intake and incidental soil ingestion.

These 1,100 different species were reviewed and assessed in terms of their predominance within the habitat and their availability as a food source. Those families shown within each of the trophic level boxes on the food web represent the most predominant in the area, as identified in the Radford site surveys and other animal studies.

The forest food web shown in Figure 5 consists of terrestrial plants in TL1 that serve as the source of food for the herbivorous birds and mammals of TL2 and omnivorous members of TL3. Insects and other herbivorous invertebrates also occupy TL2 in this food chain and serve as a food source for the insectivorous birds, amphibians, reptiles, and mammals of TL3. The TL4 families include carnivorous birds, reptiles, and mammals that feed on the lower TL plants and animals.

In total nearly 560 different species of plants and animals were identified in the forest habitat. These were distributed between the various trophic levels as follows:

- TL1 – Approximately 170 different species, consisting of nearly 50 different plants, 103 different birds, and various other invertebrates, amphibians, and mammals. These species are exposed to OBG emissions via uptake of deposited COPCs through the soil.

- TL2 – Approximately 320 different species, consisting of approximately 250 insects, butterflies, skippers, and other terrestrial invertebrates, as well as approximately 20 birds and 44 mammals. The TL2 members are assumed to be exposed to site contaminants via their ingestion of soil, plants, and drinking water.

- TL3 – 20 different species, consisting largely of birds, as well as a limited number of reptiles and mammals. These species are exposed to OBG emissions via the consumption of lower trophic level species, as well as direct exposure via drinking water intake and incidental soil ingestion.

- TL4 – Nearly 50 different species, consisting of approximately equal numbers of birds and reptiles, as well as a few predatory mammals. These species are exposed to OBG emissions via the consumption of lower trophic level species, as well as direct exposure via drinking water intake and incidental soil ingestion.

These 560 different species were reviewed and assessed in terms of their predominance within the habitat and their availability as a food source. Those families shown within each of the trophic level boxes on the food web represent the most predominant in the area, as identified in the Radford site surveys and other animal studies.

The freshwater food web shown in Figure 6 is much more complex than those of the prairie and forest. TL1 of this food web includes aquatic vegetation and phytoplankton, which will be evaluated as a single community and that serve as a food source for the herbivorous fish, birds, and mammals occupying TL2 and the omnivorous fish, birds, reptiles, and mammals occupying TL3. Insects, herbivorous invertebrates, and benthic invertebrates also occupy TL2 in this food chain and serve as a food source for the insectivorous fish, birds, amphibians, reptiles, and mammals of TL3. The TL4 families includes carnivorous fish, shore birds, reptiles, and mammals that feed on the lower TL plants and animals.

In total nearly 550 different species of plants and animals were identified in the freshwater habitat. These were distributed between the various trophic levels as follows:

- TL1 – Nearly 120 different species, consisting of over 40 different amphibians, nearly 40 different fish, 20 different plants, and a few birds. These species are exposed to OBG emissions via uptake of deposited COPCs through the soil.

- TL2 – Over 300 different species, consisting largely of insects, aquatic crustaceans and mollusks, as well as approximately 30 different fish species, and a limited number of birds

and small mammals. The TL2 members are assumed to be exposed to site contaminants via their ingestion of soil and plants.

- TL3 – Over 100 different species, consisting primarily of fish and birds, as well as a limited number of reptiles and mammals. These species are exposed to OBG emissions via the consumption of lower trophic level species, as well as direct exposure via drinking water intake and incidental soil ingestion.
- TL4 – 13 different species, consisting of approximately equal numbers of birds, reptiles, fish, and mammals. These species are exposed to OBG emissions via the consumption of lower trophic level species, as well as direct exposure via drinking water intake and incidental soil ingestion.

As with the other habitats, these different species were reviewed and assessed in terms of their predominance within the habitat and their availability as a food source. Those families shown within each of the trophic level boxes on the food web represent the most predominant in the area, as identified in the Radford site surveys and other animal studies.

When reviewing the food webs above, the commonalities between the prairie and forest food webs are evident. The most representative communities and guilds found in each web's trophic level are largely similar, and the overall layout of each food web is identical. Specific similarities include:

- Of the nearly 1,100 species identified for this SLERA, approximately half (439) are found in both the forest and prairie habitats.

- TL1 includes a variety of terrestrial plants and animals in both food webs, with approximately 100 of the 250 different TL1 species associated with these habitats being found in both the forest and prairie regions.

- In both food webs, TL2 includes herbivorous mammals, birds, and invertebrates. TL2 differences are minor, such as the specific families of small rodents selected for the herbivorous mammals, and the selection of additional herbivorous birds for each habitat. Of the 359 TL2 species identified for either habitat, 279 were found in both the forest and prairie regions.

- In both food webs, TL3 includes omnivorous mammals, insectivorous mammals, omnivorous reptiles, insectivorous amphibians and reptiles, insectivorous birds, and omnivorous birds. TL3 differences are also minor, as the specific families of small rodents selected for the insectivorous mammals varied, and the additional selection of a few insectivorous amphibians, insectivorous birds, and omnivorous birds for each habitat. In total, 44 different TL3 species were identified for the prairie and/or forest habitats. Of these, 16 were identified as being present in both, making identification of a common measurement receptor possible.

- In both food webs, TL4 includes carnivorous mammals, birds, and reptiles. The only TL4 differences are the selection of a few additional carnivorous mammals (bobcats vs. coyotes) and carnivorous birds (shrikes vs. eagles). Of the 48 different TL4 species identified for either habitat, 46 were determined to be common to both.

- The food chain mechanisms for both the prairie and forest habitats are very similar and involve many of the same predominant species. The transport mechanisms to these food chain receptors will also be the same, with COPCs entering plants via root uptake and passing into the food chain receptors via both plant uptake, as well as direct ingestion of soil and water.

- Prairie habitats may have increased runoff from soils into water bodies compared to forest habitats if riparian zones do not contain adequate vegetation. However, this would not directly impact calculations of risk in either the prairie or forest habitats and these factors are accounted elsewhere in the evaluation of contaminant concentrations in surface water.

One consideration in combining the two habitats is whether they function similarly enough to evaluate them together. Some significant differences exist, primarily in the plant species that dominate within the two areas (trees in forests, grasses in prairie habitats). Forested habitats provide significantly more cover and shade than the prairie-like habitats, which impacts the composition of species that reside there. In particular, forested habitats support more amphibian species than prairie-like habitats, including various species of tree frogs and hellbenders. All of the endangered or threatened plant species identified in Appendix C, Table 4 are found in the forest habitat, while none were identified for the prairie-like habitats. These factors point to plant receptors being more important to the forest habitats around RFAAP. However, the same representative species and standards are applicable to both habitats during the risk assessment. Therefore, combining the risk assessment calculations for the two habitats is a reasonable approach (Coterie, 2019)..

Section 2.9: Ecological Guilds

Appendix C, Tables 5 through 8 present the typical species, trophic level, community receptors, and critical ecological attributes for each guild in the habitats evaluated. This information was developed in the Risk Assessment Protocol (RAP) and is presented in the SLERA for completeness.

Section 2.10: Endangered Species and Sensitive Ecological Habitats

Endangered, threatened, and imperiled species are distributed throughout habitats within the study area. The majority of these species are found in the forested and freshwater areas, making these habitats of specific ecological importance. One identified species, *Neonympha mitchellii*

mitchellii, is also found in prairie-like habitats, potentially classifying these habitats as having special ecological importance as well. A full list of threatened and endangered species potentially found within the study area is provided in Appendix C, Table 4.

Within these habitats, only two specifically protected ecological areas were identified. These include:

- The Jefferson National Forest (JNF) – The JNF is a forested region located to the north and west of the OBG operations, away from the prevailing wind direction. The JNF is, according to the Virginia State Parks, home to some of the highest populations of wild turkey, white-tail deer, black bear, squirrel, and ruffed grouse. The JNF also provides excellent fishing opportunities for both native and stocked trout, bass, bluegill, and channel catfish. The receptor grid provided for this assessment covers the entire breadth of the JNF within the assessment area.

- Wildwood Park – Wildwood Park is located in the City of Radford, south and west of the OBG operations, away from the prevailing wind direction. Wildwood Park is a city greenway provided for nature studies and community recreation. The primary ecological feature within the park is Connelly's Run, which runs through the center of the surrounding wooded area. Both Wildwood Park and Connelly's Run are covered by the receptor grid provided for this assessment.

In addition, most of the small tributaries stemming from the major creeks and streams are identified as wetlands in the National Wetland inventory (Coterie, 2019).

Section 2.11: Contaminant Fate and Transport

This section evaluates the release mechanisms associated with the RFAAP OBG and how contaminants contained in these releases move through the environment. This section focuses on off-site releases, as on-site releases from the OBG are evaluated through a soil monitoring program implemented as an ongoing condition to the OBG permit. Therefore those releases are not included in this is risk assessment and their fate and transport are not evaluated.

Section 2.12: Air Transport

The primary pathway for the off-site release of COPCs from the OBG is via air transport and deposition. The combustion of wastes at the OBG releases contaminants both in the form of particulates and as volatile gases into the atmosphere where they are deposited in the surrounding areas. Chemical and climate specific factors influence the location and rate of this dispersion and deposition. These emissions and the resulting deposition have been modeled through site-specific modeling based on both measured and estimated emission factors (Coterie, 2019).

Section 2.13: Erosion, Runoff, and Other Natural Processes

Contaminants deposited via airborne deposition are subject to natural processes that redistribute particles over time through erosion and overland runoff into water bodies. The rate of this transport is broadly dictated by topography, vegetation cover, and annual precipitation rates. Contamination bound to particles eventually travels down gradient into surface water bodies. These impacts were modeled as per EPA SLERA guidance to estimate impacts to surface water bodies. Infiltration through soils into groundwater is another potential transport pathway, though it is comparatively negligible to overland processes (Coterie, 2019).

Natural processes may also break down or transform organic contaminants over time. Decreases in soil concentrations were calculated as per the EPA SLERA guidance to account for these losses.

Section 2.14: Bioaccumulation and Food Chain Transport

Ecological receptors exposed to COPCs through root uptake, ingestion of water and soil, and other exposed receptors can move COPCs through the food webs of an ecosystem. Some contaminants such as dioxins are bioaccumulative, meaning they concentrate in the tissues of organisms in higher trophic levels. The bioconcentration of these contaminants increases the effective dose to these organisms as well as exposures to the organisms that consume them. The Bioaccumulation Factors (BAFs) and Trophic Level Multipliers (TLMs) used in this SLERA are presented in Appendix C, Tables 9 and 10 respectively.

Section 3.0: Methodology

The SLERA was performed as per EPA guidance (EPA, 2005) and the agreed on MRAP (Coterie, 2019) with minor deviations. Using media concentrations developed through air dispersion modeling, exposures to communities and species representative of the guilds outlined in Section 2, ecological risks were estimated utilizing accepted toxicity data. Additional information on the process used in the SLERA is outlined below.

Section 3.1: Data Inputs

The SLERA is focused on the COPCs identified per the process described in the MRAP (Coterie, 2019) and listed in Appendix C, Table 1. Media concentrations derived from air dispersion modeling of the propellant and skid burn scenarios were utilized in the SLERA. Soil concentrations from the maximum deposition farmer scenarios utilized in the HHRA were used for terrestrial receptors. Sediment and surface water concentrations were taken from the location of maximum deposition for the fisherman scenario for the propellant and skid burn scenarios. Concentrations of each COPC for each scenario are provided in Appendix C, Tables 11 through

14. Scenario specific constants utilized in the risk assessment are provided in Appendix C, Table 15. Additional chemical specific information for each COPC is presented in Appendix C.

Representative receptor species for use in the SLERA were identified in the Multipathway Risk Assessment Protocol (MRAP) based off of the conceptual site model. Receptor specific information on body weights, ingestion rates, and diet was obtained from EPA's Wildlife Exposure Handbook (EPA, 1993). Receptors were conservatively assumed to obtain 100% of their food items from the areas of greatest deposition within the study area.

Receptors were assumed to feed on prey items in proportions based on the EPA Wildlife Exposure Factors Handbook (USEPA 1993). For carnivores, unless source data indicated otherwise the SLERA assumes that they were consuming the highest trophic level of prey species (i.e., insectivores were preferred over herbivores). A summary of this information is provided in Appendix C, Tables 16 and 17. Community and receptor specific toxicity values were obtained from the following hierarchy of sources agreed to in the MRAP, with the addition of EPA Region 5 RCRA data (see Section 4):

- USEPA Region 3's Biological Technical Assistance Group (BTAG) Toxicity Reference Vales (TRVs) for fresh and marine waters and sediments;
- Oak Ridge National Laboratory's (ORNL's) Toxicological Benchmarks for Wildlife;
- National Oceanic and Atmospheric Association (NOAA) Screening Quick Reference Tables (SQuiRTs);
- USEPA's Interim Ecological Soil Screening Level (ECO-SSL);
- USEPA's ECOTOXicology Knowledgebase (ECOTOX) ; and
- USEPA Region 5 Ecological Screening Values (2003).

TRVs used in the risk assessment are provided in Appendix C, Table 18.

Section 3.2: Selection of Receptor Species

Due to the number, diversity, and lack of data on many of the species in the food webs described in Section 2.8, EPA guidance recommends the selection of representative species and communities to estimate risks to specific ecological guilds. Measurement receptor species for each guild evaluated in the SLERA were selected based on ecological relevance, potential and sensitivity to exposure, availability of data, and their social or ecological importance. Selected measurement receptors for the SLERA are presented in Appendix C, Tables 7 and 8. For more

information on the rationale behind the selection of these receptors see the MRAP (Coterie, 2019).

Section 3.3: Exposure Assessment

Ecological receptors have the potential to be exposed to releases from the RFAAP OBG through several pathways: direct exposure to soils through the incidental ingestion and inhalation of contaminated soil particles, ingestion of impacted surface water, and exposures through the food chain. Data are limited on inhalation exposures to wildlife receptors, so this pathway was not evaluated in the SLERA. A breakdown of community based endpoints and pathways is provided in Appendix C, Table 19. Endpoints, measurement receptors, and exposure pathways for guild-specific receptors are presented in Appendix C, Table 20.

Section 3.4: COPC Concentrations in Food Items

Food chain exposures to receptors are dependent on the concentrations of COPCs in the food items they consume. These concentrations were calculated as per Equation 5-1 in the EPA SLERA guidance (2005). Specific aspects and inputs to the equation vary depending on the particular guild and food item evaluated as per Appendix F of the guidance. Concentrations for insectivorous food items were calculated using the equations for omnivores but assuming no consumption of food items other than invertebrates. Concentrations of invertebrates in all habitats were calculated as per guidance using COPC specific bioconcentration factors (BCFs) and site specific media concentrations. Concentrations in fish were calculated using COPC specific BCFs and food chain multipliers (FCMs). COPC specific BCFs and FCMs are provided in Appendix C, Tables 9 and 10. Summaries of calculated food item concentrations are presented in Appendix C, Tables 21-28.

Section 3.5: Estimated Doses to Representative Guild Species

Exposures to representative species evaluated during the SLERA were estimated by modeling the estimated daily dose of COPCs to receptors from identified exposure pathways. These exposures were estimated as per the equations presented in Appendix F of the EPA SLERA Guidance. Calculated doses to representative species are presented in Appendix C, Tables 29 through 36. Biomagnification through the food chain is factored into the equations through the use of FCMs. Dioxins were handled as per SLERA guidance using Toxicity Equivalency Factor (TEF) values updated by EPA in subsequent guidance (EPA, 2008). Summaries of the estimated daily doses to receptors for facility COPCs are presented in Appendix C.

Section 3.6: Toxicity Assessment and Risk Characterization

Toxicity of facility COPCs are characterized through the use of the toxicity reference values described in in Section 3.1 and Appendix C, Table 18. To characterize risks to ecological receptors, estimated exposure levels for ecological receptors were compared to TRVs as per

SLERA guidance. Media concentrations were used as the estimated exposure levels (EELs) for community receptors. Estimated daily doses were used as the EELs for representative guild species.

Risks were characterized by calculating the ratio of the EEL to TRVs. This ratio, the environmental screening quotient (ESQ), represents the estimate of risks from a specific COPC to ecological receptors. An ESQ greater than 1 indicates a potential risk to the target receptor. ESQs for receptors are presented by exposure scenario in Appendix C, Tables 37-60 and discussed further in Section 5.

Section 4.0: Deviations from the Protocol

Section 4.1: Receptors and Communities Evaluated

Toxicity data for reptile and amphibian receptors were generally not available. As a result they were not quantitatively evaluated in the SLERA. Risks to these receptors were qualitatively evaluated instead (see Section 7.0). Risks were also not quantified for aquatic insectivorous birds, as benthic invertebrates were considered a more significant driver to avian species and is not a major component of the representative species' diet. Risks to algal communities were also not evaluated, as none of the receptor species utilized this community as a significant food source.

Section 4.2: COPC Specific Data

A review of COPC specific data presented in the MRAP identified minor inconsistencies in CAS numbers, nomenclature, and chemical-specific physical properties in comparison with data presented in the most recent version EPA's Risk Screening Level (RSL) Table (November, 2019). The CAS numbers and naming conventions used in the RSL were used over those presented in the MRAP.

Section 4.3: Toxicity Data

A review of the TRVs originally proposed in the MRAP found minor inconsistencies with published data and subsequently updated. An additional source of TRVs was also incorporated into the selection hierarchy, EPA's Region 5 RCRA Ecological Screening Values (2003), as a means of filling data gaps for toxicity information regarding certain COPCs.

Across sources and receptors, incomplete data for the different congeners of xylenes was encountered. To close this data gap, data for total xylenes were applied to the various congener mixtures identified as COPCs. For human health risk assessments, this approach is used for xylenes in the development of alternative contaminant limits (ACLs) by DEQ and was therefore deemed acceptable for use in the SLERA.

Section 5.0: Results

Section 5.1: Propellant Burns

Section 5.1.1: Prairie/Forest

Summed ESQs for community receptors in the prairie and forest habitats ranged from 0.0027 (terrestrial plants in the 183 day scenario) to 0.0125 (soil invertebrates, 8000lbs scenario), with the highest risks being present for the soil invertebrate community under both scenarios. Risks to invertebrates were primarily driven by chromium VI for both invertebrates and plants in both the 183 day and 8000lb scenarios. Cumulative risks for both communities were well below the risk threshold of 1.0. Community receptor ESQs for both scenarios are presented in Appendix C, Tables 37 and 38.

Risks to receptor species were within a similar range as community receptors. The lowest risks were observed in carnivorous birds under the 183 day scenario (ESQ = 7.89E-08) and the highest risks were observed in omnivorous mammals in the 8000 lbs scenario. (ESQ =0.029). Lead was the biggest risk driver, primarily from direct contact with contaminated soils. Cumulative ESQs did not exceed thresholds for any receptor. ESQs for receptor species are presented in Appendix C, Tables 39 through 42.

Section 5.1.2: Aquatic Environment

Summed ESQs for community receptors in the aquatic habitat ranged from 3.1592E-06 (fish in the 183 day scenario) to 0.027 (benthic invertebrates, 8000lbs scenario), with the highest risks being present for the benthic invertebrate communities under both scenarios. Risks to benthic invertebrates were primarily driven by indeno(1,2,3-cd)pyrene and bis(2-ethylhexyl)phthalate for invertebrates in both the 183 day and 8000lb scenarios. Cumulative risks for all communities were well below the risk threshold of 1.0. Community receptor ESQs for aquatic scenarios are presented in Appendix C, Tables 43 and 44.

Risks to receptor species were also well below thresholds. The greatest risks were identified to omnivorous mammals (ESQ = 3.23E-02) primarily via exposures to lead and bis(2-ethylhexyl)phthalate. The lowest risks were observed in herbivorous birds under the Propellant 183 Day Scenario. Risks to aquatic receptor species are summarized in Appendix C, Tables 45 through 48

Section 5.2: Skid Burns

Section 5.2.1: Prairie/Forest

Summed ESQs for community receptors in the prairie/forest skid burn scenarios ranged from 1.44E-05 (plant communities, standard skid scenario) to 0.0039 (soil invertebrates, 183 day scenario). Risks to soil invertebrates were driven by soil exposures to chromium VI in both scenarios. Risks to all communities were several orders of magnitude below thresholds under both scenarios. Community receptor ESQs are presented in Appendix C, Tables 49 and 50.

Risks to receptor species were also well below thresholds, with cumulative ESQs ranging from 9.16E-10 (carnivorous birds, standard scenario) to 0.006 (omnivorous mammals, 183 day scenario). The highest risks to omnivorous mammals were from exposures to lead and arsenic. Cumulative risks did not exceed thresholds for any terrestrial receptor under either scenario. ESQs for all representative species are presented in Appendix C, Tables 51 through 54.

Section 5.2.2: Aquatic Environment

Cumulative ESQs for aquatic communities ranged from 3.87E-07 (fish communities, 183 day scenario) to 0.00078 (benthic invertebrates, standard scenario). Risks to benthic invertebrates were driven by exposures to indeno(1,2,3-cd)pyrene and bis(2-ethylhexyl)phthalate. Risks to all aquatic communities were minimal and well below risk thresholds. ESQs for aquatic communities are presented in Appendix C, Table 55 and 56.

Cumulative risks to receptor species ranged from 1.32E-09 (carnivorous birds, 183 day scenario) to 0.00039 (omnivorous mammals, 183 day scenario). Risks to omnivorous mammals were driven primarily by exposures to lead and bis(2-ethylhexyl)phthalate. Cumulative risks were several orders of magnitude below thresholds for all representative species. ESQs for all aquatic receptor species are presented in Appendix C, Tables 57-60.

Section 6.0: Risk Summary

None of the scenarios evaluated in this SLERA were found to present a significant risk to ecological receptors or communities. The highest risks were to omnivorous mammals over all scenarios, represented by raccoons in the SLERA calculations. Risks were driven by lead, but were two to three orders of magnitude below thresholds. Outside of lead, risks to these receptors were primarily driven by bis(2-ethylhexyl)phthalate. Risks from other COPCs were generally an order of magnitude or more less than those from these two compounds. Direct exposures from soil and sediment provided the highest doses of these COPCs to these receptors. Based on these results, risks appear to be minimal to sensitive ecological areas or threatened or endangered species.

Section 7.0: Uncertainties

Risk assessments use a variety of assumptions in their evaluations and data inputs can have varying degrees of confidence. These can introduce uncertainties into the risk assessment and its

subsequent findings. This section qualitatively evaluates the sources and the degree of these uncertainties on the risk assessment.

The COPCs profile and the concentrations of their emissions can be variable depending on the exact composition of the waste treated at the OBG and the conditions that the burns take place under. Emissions of some COPCs were directly measured through drone testing. These data were considered to be of high quality, but still subject to standard limitations associated with analytical sampling but different burn conditions and waste compositions could change the emissions profile. These variations could result in the risk assessment either over or underestimating risk. Emissions from other COPCs were estimated through the use of AP-42 bang box data, but confidence in these data is significantly lower than those collected during the drone sampling effort. The AP-42 data were collected under conditions not representative of open burning, but also include COPCs not detected during the drone sampling and included as a conservative measure. The use of these data likely has led to overestimations of emissions and subsequent risks.

Soil and water calculations were estimated through the use of the OBODM modeling software and equations presented in the SLERA guidance. The OBODM software is an older program, and may not provide as much accuracy as other, more new software. The OBODM model relies on surrogate compounds to estimate the dispersion and deposition of the full suite of COPCs. This approach may over or underestimate media concentrations of COPCs in some areas. The SLERA utilized deposition and media concentrations from the areas of maximum deposition for the farmer and fishermen scenarios used in the human health risk assessment. The use of these locations may over or underestimate risk based on the deposition rates and use of receptors of these areas. However, media concentrations estimated for these locations were deemed to be appropriately representative for use in the SLERA.

The SLERA presented in this document utilizes surrogate receptors to evaluate the impacts to ecological systems potentially impacted by the treatment of waste at RFAAP's OBG. The species evaluated are intended to broadly represent various ecological guilds. The actual species in these guilds can be highly variable, and COPCs can exhibit differing levels of toxicity or bioaccumulation across these species. Risks to individual species in the study area may be over or underestimated because of these differences in toxicity and bioconcentration. Reptiles and amphibians were not evaluated as per the protocol due to a lack of available toxicity data. Exposures through the food chain to higher trophic levels were evaluated by assuming the consumption of other species. Risks to carnivorous reptiles remains a data gap, but risks to other high trophic level receptors may provide insight into potential risks to these receptors.

Other species specific data used in the risk assessment have uncertainties associated with them. Data related to ingestion rates, body weights, etc. were obtained from studies in EPA's Wildlife Exposure Factors Handbook (WEFH). These studies were not specific to the RFAAP study area, where site specific conditions could influence these risk assessment inputs. These differences could over or underestimate risk for certain species. The SLERA made conservative assumptions

regarding the diet of target receptors. Carnivores were assumed to get 100% of their food from prey items, but their actual diet is significantly more diverse than assumed in the SLERA. This likely resulted in an overestimation of risks to target receptors. The SLERA also assumed that maximum concentrations of COPCs in the study area would be representative of the entire home range of target species. This assumption likely overestimates exposures to target species along with the resulting risks.

Toxicity data used to evaluate risks to target species are another source of uncertainty within the risk assessment. These data were collected through controlled studies that do not reflect the specific conditions present at RFAAP. These studies did not consider the potential differences in toxicity that may result from the exposure of target species to mixtures of contaminants. Conditions in the RFAAP study area may also result in varying degrees of bioavailability and toxicity of certain COPCs. Toxicity studies typically utilize and control conditions to evaluate the most bioavailable forms of contaminants. The SLERA also utilized TRVs based on no observable adverse effect levels (NOAELs) rather than lowest observable adverse effect levels (LOAELs). These factors likely resulted in overestimations of risk to target receptors.

Section 8.0: Conclusions

No scenarios drove significant risks to ecological communities, sensitive ecological areas, ecological receptors, or threatened and endangered species. Omnivorous mammals were found to have the greatest risks, but these risks were still an order of magnitude or more less than established risk thresholds. No receptors were found to exceed target risk thresholds, therefore risks to special ecological areas as well as threatened or endangered species are considered acceptable. Some uncertainties surround this conclusion, particularly the large number of COPCs with no ecological toxicity data. Inhalation exposures were not evaluated in the SLERA, and could be a significant driver for some receptors. However, given the conservative nature of the SLERA's assumptions and the relatively low risks observed, it is unlikely these uncertainties would result in a scenario with significant risks to the environment or ecological receptors. Therefore, there does not appear to be a need to modify the proposed throughputs at the RFAAP OBG to protect ecological communities or receptors.

Section 9.0: References

Coterie Environmental, 2017. Air Modeling Report for the Radford Army Ammunition Plant Open Burning Grounds. King of Prussia, PA.

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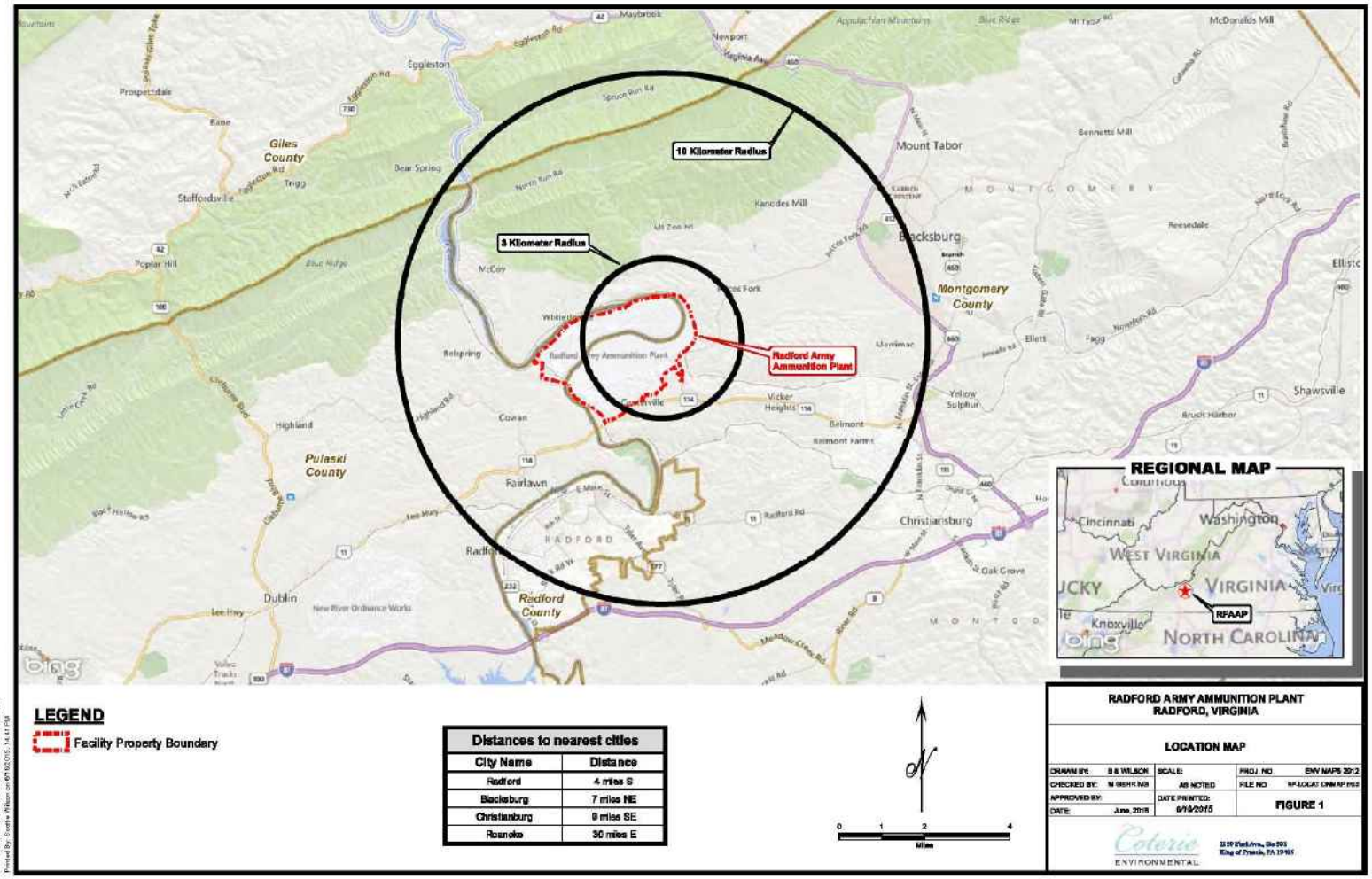
Appendix A – Figures

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY



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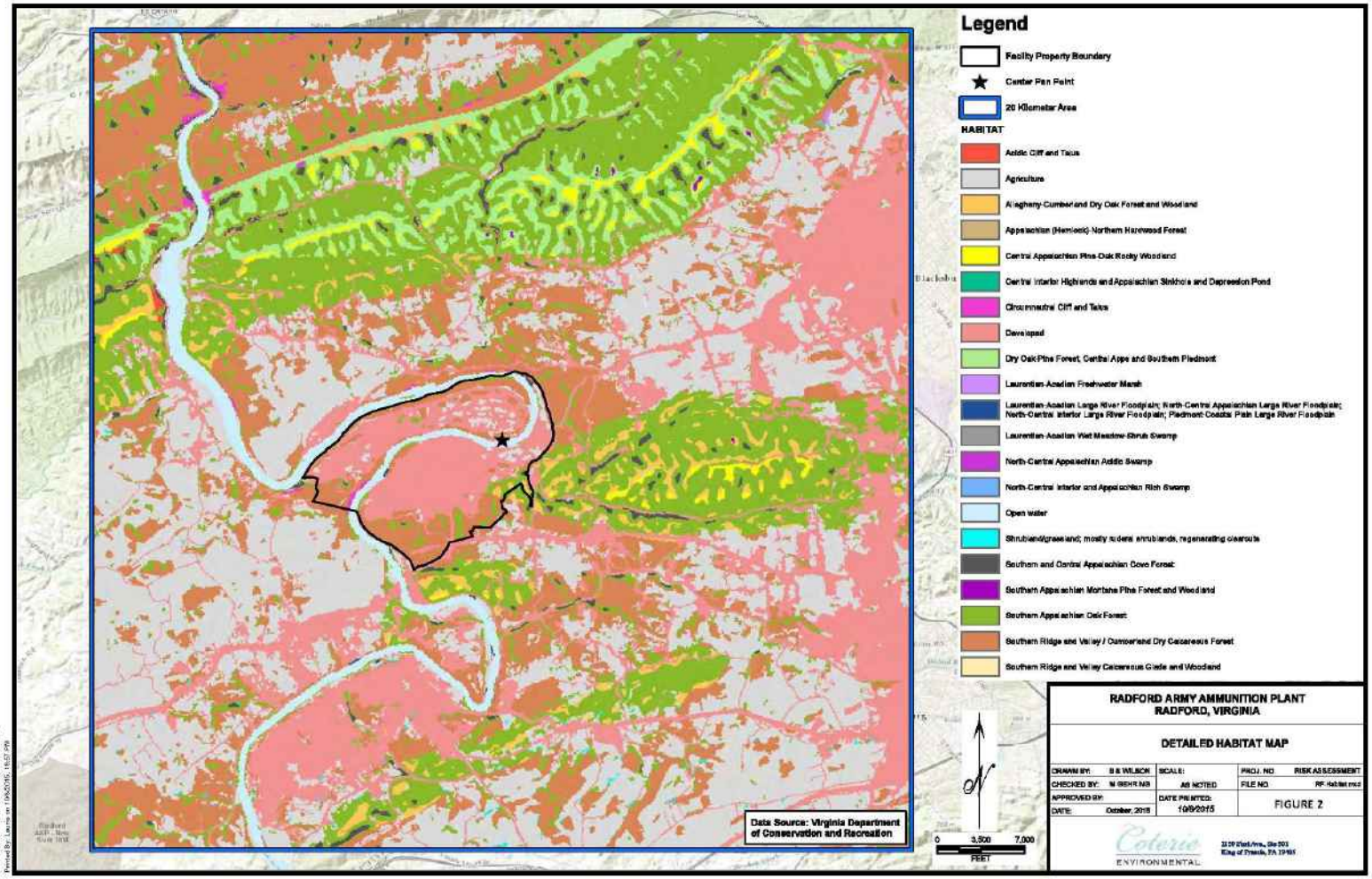
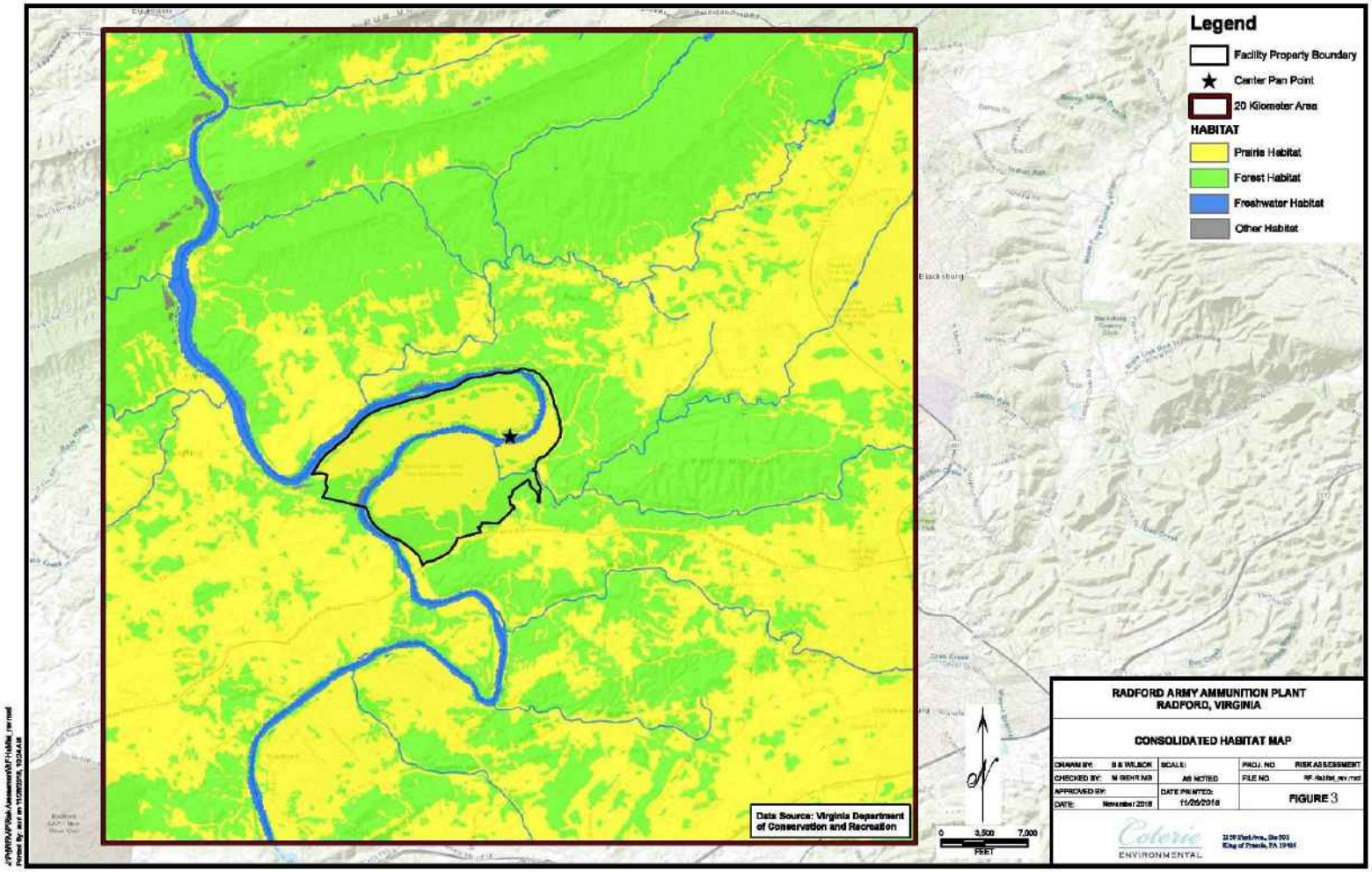
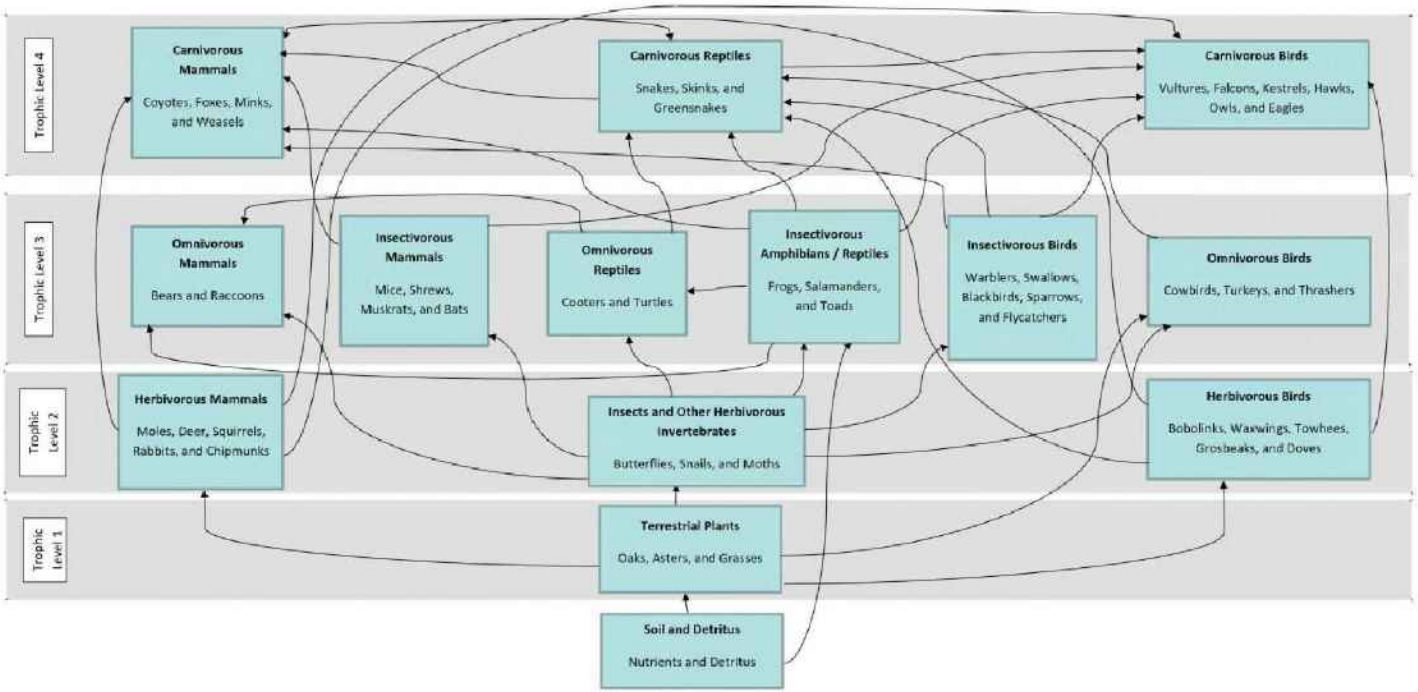

Legend
Facility Property Boundary
Center Pan Point
20 Kilometer Area
HABITAT
Acidic Cliff and Talus
Agriculture
Allegheny-Cumberland Dry Oak Forest and Woodland
Appalachian (Hemlock)-Northern Hardwood Forest
Central Appalachian Pine-Oak Rocky Woodland
Central Interior Highlands and Appalachian Sinkhole and Depression Pond
Circumneutral Cliff and Talus
Developed
Dry Oak-Pine Forest, Central Appa and Southern Piedmont
Laurentian-Acadian Freshwater Marsh
Laurentian-Acadian Large River Floodplain; North-Central Appalachian Large River Floodplain; North-Central Interior Large River Floodplain; Piedmont-Coastal Plain Large River Floodplain
Laurentian-Acadian Wet Meadow-Shrub Swamp
North-Central Appalachian Acidic Swamp
North-Central Interior and Appalachian Rich Swamp
Open water
Shrubland/grassland; mostly suderal shrublands, regenerating clearcuts
Southern and Central Appalachian Cove Forest
Southern Appalachian Montane Pine Forest and Woodland
Southern Appalachian Oak Forest
Southern Ridge and Valley / Cumberland Dry Calcareous Forest
Southern Ridge and Valley Calcareous Glade and Woodland
Data Source: Virginia Department of Conservation and Recreation
0 3,500 7,000
FEET
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA
DETAILED HABITAT MAP
DRAWN BY: B & WILSON
CHECKED BY: M GEHR MB
APPROVED BY:
DATE: October, 2015
SCALE: AS NOTED
DATE PRINTED: 10/6/2015
PROJ. NO. RISK ASSESSMENT
FILE NO. RF-Habitat.mxd
FIGURE 2
Coterie ENVIRONMENTAL


Legend
Facility Property Boundary
Center Pan Point
20 Kilometer Area
HABITAT
Prairie Habitat
Forest Habitat
Freshwater Habitat
Other Habitat
Data Source: Virginia Department of Conservation and Recreation
0
3,500
7,000
FEET
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA
CONSOLIDATED HABITAT MAP
DRAWN BY: B & WILSON
CHECKED BY: M GEHR MB
APPROVED BY:
DATE: November 2018
SCALE: AS NOTED
DATE PRINTED: 11/26/2018
PROJ. NO. RISK ASSESSMENT
FILE NO. RF-Habitat_rev.mxd
FIGURE 3
Coterie
ENVIRONMENTAL

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

FIGURE 4
PRAIRIE HABITAT FOOD WEB



Note: The relationships shown in this food web represent general relationships within the habitat. Not all species within a specific guild will consume any or all of the species in the related guilds. This food web should serve as a general guide to how the various components of the ecosystem are interelated and demonstrate how a risk to one can impact many within the habitat.

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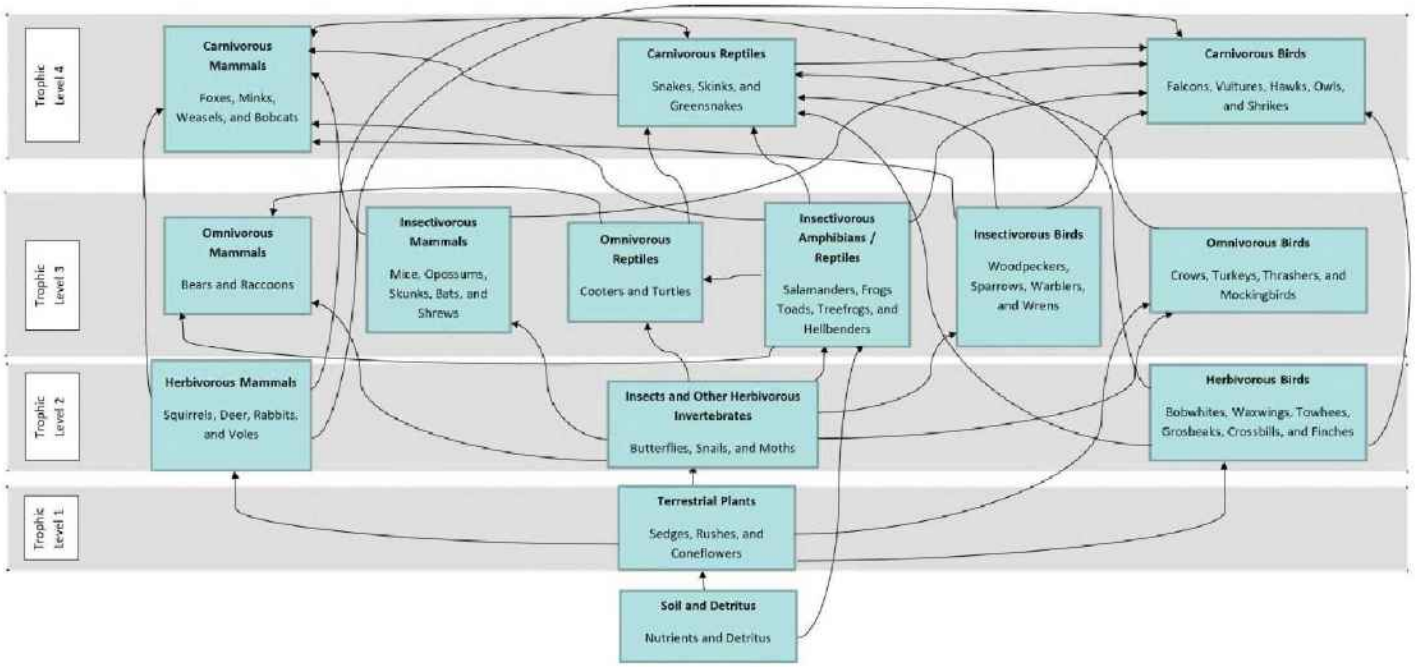
FIGURE 5
FOREST HABITAT FOOD WEB



Note: The relationships shown in this food web represent general relationships within the habitat. Not all species within a specific guild will consume any or all of the species in the related guilds. This food web should serve as a general guide to how the various components of the ecosystem are interelated and demonstrate how a risk to one can impact many within the habitat.

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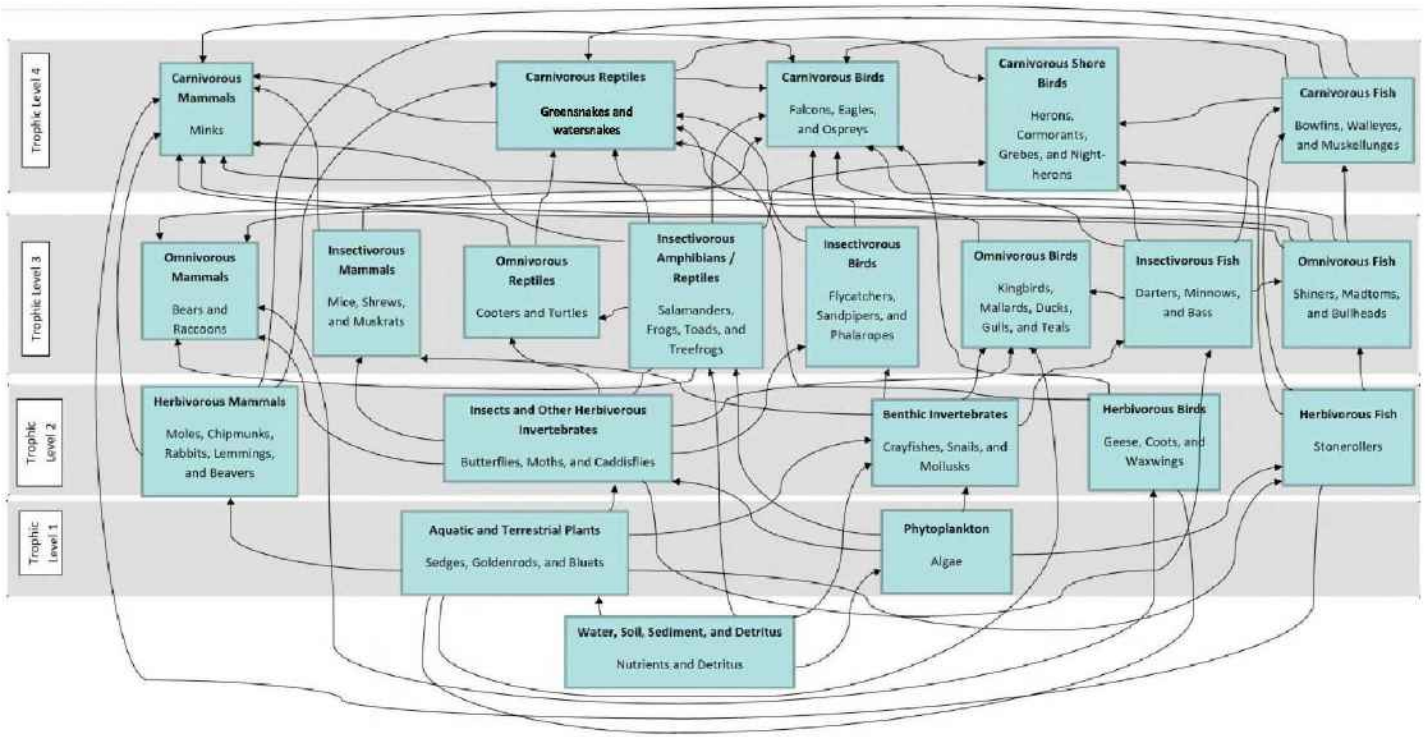
FIGURE 6
FRESHWATER HABITAT FOOD WEB



Note: The relationships shown in this food web represent general relationships within the habitat. Not all species within a specific guild will consume any or all of the species in the related guilds. This food web should serve as a general guide to how the various components of the ecosystem are interelated and demonstrate how a risk to one can impact many within the habitat.

Appendix B - Dioxin Toxicity Equivalency Calculation Scenarios

Table 1 - Propellant Burn 183 Day Scenario Dioxin Toxicity Equivalency Calculation				
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Propellant Burn 183 Day Scenario - Canada Goose				
Constituent	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.13303E-18	0.1	2.13303E-19
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.6746E-15	1	1.6746E-15
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Propellant Burn 183 Day Scenario - Great Blue Heron				
Constituent	CAS	DCB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.37763E-15	0.1	1.37763E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.64268E-13	1	1.64268E-13
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Propellant Burn 183 Day Scenario - Mallard Duck				
Constituent	CAS	DOB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.12398E-10	0.1	1.12398E-11
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.49665E-10	1	1.49665E-10
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Northern Bobwhite				
COPC	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.06148E-16	0.1	5.06148E-17
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	9.07921E-15	1	9.07921E-15

Table 1 - Propellant Burn 183 Day Scenario Dioxin Toxicity Equivalency Calculation				
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario -Redtail Hawk				
Constituent	CAS	DCB	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.83519E-15	0.03	3.83519E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.40529E-13	0.3	3.40529E-13
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - American Robin				
Constituent	CAS	DOB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	9.53729E-14	0.1	9.53729E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.78433E-12	1	7.78433E-12
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - American Woodcock				
Constituent	CAS	DIB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.18115E-12	0.1	2.18115E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.78919E-11	1	2.78919E-11
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.97735E-14	0.03	8.93206E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.53678E-13	0.3	7.61033E-14

Table 1 - Propellant Burn 183 Day Scenario Dioxin Toxicity Equivalency Calculation				
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Raccoon				
Constituent	CAS	DOM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.02417E-09	0.03	1.50725E-10
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.03072E-10	0.3	6.09215E-11
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.83831E-13	0.03	5.51492E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.13031E-13	0.3	2.13909E-13
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	7.79423E-11	0.03	2.33827E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	9.67527E-13	0.3	2.90258E-13
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Raccoon				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6			4.09907E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4			4.86516E-10

Table 1 - Propellant Burn 183 Day Scenario Dioxin Toxicity Equivalency Calculation				
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.09287E-13	0.03	3.27862E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.57951E-12	0.3	4.73852E-13
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.30395E-13	0.03	1.29118E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.28191E-12	0.3	2.18457E-12
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 183 Day Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.92315E-13	0.03	5.76945E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.04221E-12	0.3	6.12663E-13

Table 2 - Skid Burn 183 Day Scenario Dioxin Toxicity Equivalency Calculation				
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Skid Burn 183 Day Scenario - Canada Goose				
Constituent	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	6.88693E-20	0.1	6.88693E-21
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.39094E-20	1	2.39094E-20
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Skid Burn 183 Day Scenario - Great Blue Heron				
Constituent	CAS	DCB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.49012E-17	0.1	5.49012E-18
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	6.03905E-15	1	6.03905E-15
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Skid Burn 183 Day Scenario - Mallard Duck				
Constituent	CAS	DOB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.01418E-12	0.1	5.01418E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	6.23918E-12	1	6.23918E-12
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Northern Bobwhite				
Constituent	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.4379E-16	0.1	1.4379E-17
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.29932E-15	1	1.29932E-15
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario -Redtail Hawk				
Constituent	CAS	DCB	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.39624E-15	0.03	2.39624E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.01476E-13	0.3	2.01476E-13
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - American Robin				

Table 2 - Skid Burn 183 Day Scenario Dioxin Toxicity Equivalency Calculation				
Constituent	CAS	DOB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.8602E-14	0.1	5.8602E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.85841E-12	1	4.85841E-12
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - American Woodcock				
Constituent	CAS	DIB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.36533E-12	0.1	1.36533E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.74575E-11	1	1.74575E-11
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.32812E-15	0.03	3.98437E-17
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.02988E-14	0.3	3.08965E-15
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Raccoon				
Constituent	CAS	DOM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.24133E-10	0.03	6.72399E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	8.46557E-12	0.3	2.53967E-12
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	8.20083E-15	0.03	2.46025E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.96114E-14	0.3	8.88343E-15
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.47708E-12	0.03	1.04312E-13

Table 2 - Skid Burn 183 Day Scenario Dioxin Toxicity Equivalency Calculation				
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.00408E-14	0.3	1.20122E-14
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Raccoon				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6			2.56452E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4			3.044E-10
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	6.84096E-14	0.03	2.05229E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	9.87017E-13	0.3	2.96105E-13
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.69329E-13	0.03	8.07986E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.55296E-12	0.3	1.36589E-12
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn 183 Day Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.19679E-13	0.03	3.59037E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.26681E-12	0.3	3.80042E-13

Table 3 - Propellant Burn 8,000 lbs Scenario Dioxin Toxicity Equivalency Calculation				
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Propellant Burn 8,000 lbs Scenario - Canada Goose				
Constituent	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.44557E-18	0.1	3.44557E-19
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.28594E-18	1	1.28594E-18
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Propellant Burn 8,000 lbs Scenario - Great Blue Heron				
Constituent	CAS	DCB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.74674E-15	0.1	2.74674E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.24804E-13	1	3.24804E-13
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Propellant Burn 8,000 lbs Scenario - Mallard Duck				
Constituent	CAS	DOB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.50862E-10	0.1	2.50862E-11
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.35568E-10	1	3.35568E-10
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Northern Bobwhite				
Constituent	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.33705E-14	0.1	3.33705E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.3059E-14	1	3.3059E-14
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario -Redtail Hawk				
Constituent	CAS	DCB	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	7.66627E-15	0.03	7.66627E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	6.44586E-13	0.3	6.44586E-13
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - American Robin				
Constituent	CAS	DOB	BirdTEF	TEC

Table 3 - Propellant Burn 8,000 lbs Scenario Dioxin Toxicity Equivalency Calculation				
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.97318E-13	0.1	3.97318E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.57251E-11	1	1.57251E-11
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - American Woodcock				
Constituent	CAS	DIB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.36735E-12	0.1	4.36735E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.58421E-11	1	5.58421E-11
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	6.64467E-14	0.03	1.9934E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.53913E-13	0.3	1.66174E-13
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Raccoon				
Constituent	CAS	DOM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.12135E-08	0.03	3.36405E-10
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.55313E-10	0.3	1.36594E-10
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.10292E-13	0.03	1.23088E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.59262E-12	0.3	4.77787E-13
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.7396E-10	0.03	5.21881E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.15355E-12	0.3	6.46066E-13

Table 3 - Propellant Burn 8,000 lbs Scenario Dioxin Toxicity Equivalency Calculation				
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Raccoon				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6			8.46283E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4			9.7598E-10
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.18826E-13	0.03	6.56477E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.15724E-12	0.3	9.47173E-13
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	8.77293E-13	0.03	2.63188E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.45777E-11	0.3	4.3733E-12
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Propellant Burn 8,000 lbs Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.17123E-13	0.03	1.55137E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.17014E-12	0.3	1.25104E-12

Table 4 - Skid Burn Max Scenario Dioxin Toxicity Equivalency Calculation				
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Skid Burn Scenario - Canada Goose				
Constituent	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.37362E-19	0.1	1.37362E-20
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.76881E-20	1	4.76881E-20
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Skid Burn Scenario - Great Blue Heron				
Constituent	CAS	DCB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.09502E-16	0.1	1.09502E-17
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.20451E-14	1	1.20451E-14
Aquatic Avian Receptor Dioxin Toxicity Equivalency Calculation: Skid Burn Scenario - Mallard Duck				
Constituent	CAS	DOB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.0001E-11	0.1	1.0001E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.24443E-11	1	1.24443E-11
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Northern Bobwhite				
Constituent	CAS	DHB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.1463E-15	0.1	1.1463E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.0466E-14	1	1.0466E-14
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario -Redtail Hawk				
Constituent	CAS	DCB	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.495E-20	0.03	5.495E-21
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.62634E-17	0.3	3.62634E-17
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - American Robin				
Constituent	CAS	DOB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	7.30972E-15	0.1	7.30972E-16

Table 4 - Skid Burn Max Scenario Dioxin Toxicity Equivalency Calculation				
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	6.67397E-14	1	6.67397E-14
Terrestrial Avian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - American Woodcock				
Constituent	CAS	DIB	BirdTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	9.31356E-21	0.1	9.31356E-22
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	8.99776E-20	1	8.99776E-20
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.64899E-15	0.03	7.94696E-17
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.05414E-14	0.3	6.16242E-15
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Raccoon				
Constituent	CAS	DOM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.47041E-10	0.03	1.34112E-11
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.68849E-11	0.3	5.06547E-12
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.63568E-14	0.03	4.90705E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.90611E-14	0.3	1.77183E-14
Aquatic Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	6.93516E-12	0.03	2.08055E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.98628E-14	0.3	2.39588E-14
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Raccoon				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6			9.04029E-15

Table 4 - Skid Burn Max Scenario Dioxin Toxicity Equivalency Calculation				
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4			8.25403E-13
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Red Fox				
Constituent	CAS	DCM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	8.00967E-21	0.03	2.4029E-22
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.87504E-18	0.3	1.76251E-18
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Short Tailed Shrew				
Constituent	CAS	DIM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.49529E-16	0.03	1.64859E-17
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.01736E-15	0.3	1.50521E-15
Terrestrial Mammalian Receptor Dioxin Toxicity Equivalency: Skid Burn Scenario - Meadow Vole				
Constituent	CAS	DHM	MammalTEF	TEC
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.67773E-15	0.03	1.40332E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.2709E-14	0.3	1.28127E-14

Appendix C – SLERA Calculation Input and Output Tables

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
Dioxins and Furans			
2,3,4,7,8-PCDD	AP-42	0.0E+00	AP-42 EF A171
1,2,3,7,8-PeCDF	Detected in flyer test	0.00E+00	Flyer test
2,3,4,7,8-PeCDF	Detected in flyer test	0.00E+00	Flyer test
Polynuclear Aromatic Hydrocarbons			
Benzo(a)pyrene	AP-42	0.0E+00	AP-42 EF D540
Benz(a)anthracene	AP-42	0.0E+00	AP-42 EF A363
Benzo(b)fluoranthene	AP-42	0.0E+00	AP-42 EF A363
Benzo(e)pyrene	AP-42	Assess qualitatively 1	
Benzo(g,h,i)perylene	AP-42	2.0E-06	AP-42 EF H459
Benzo(k)fluoranthene	AP-42	0.0E+00	AP-42 EF D540
Chrysene	AP-42	0.0E+00	AP-42 EF H459
Dibenz(a,h)anthracene	AP-42	0.0E+00	AP-42 EF A080
Indeno(1,2,3-cd)pyrene	AP-42	1.0E-06	AP-42 EF D540
Nitroaromatics			
2-Nitrophenol	AP-42	1.0E-06	AP-42 EF C870
3-Methyl-1,1-diphenylurea	RFAAP Chemical	Assess qualitatively 2	
Ethyl centralite	RFAAP Chemical	Assess qualitatively 2	
Methyl centralite	RFAAP Chemical	Assess qualitatively 2	
Pyridine	AP-42	1.0E-06	AP-42 EF B627
Rhodamine	RFAAP Chemical	Assess qualitatively 2	
Phthalates			
Bis-2-Ethylhexyl phthalate	AP-42	6.0E-03	AP-42 EF D540
Butyl benzyl phthalate	AP-42	3.0E-06	AP-42 EF B571
Dibutyl phthalate	AP-42	2.9E-05	AP-42 EF A403
Diethyl phthalate	RFAAP Chemical	3.0E-06	EF Butyl benzyl phthalate

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
			(similar TSI ranking) 3
Dimethyl phthalate	RFAAP Chemical	3.0E-06	EF Diethyl phthalate (Chemically similar) 3
Dioctyl phthalate	RFAAP Chemical	2.9E-05	EF Dibutyl phthalate (similar TSI ranking) 3
Other Semivolatile and Volatile Organics			
1,2,4-Trimethylbenzene	Detected in flyer test	2.70E-05	Flyer test
1,2-Dichloro-1,1,2,2- tetrafluoroethane	Detected in flyer test	Assess qualitatively 2	
1,3,5-Trimethylbenzene	Detected in flyer test	7.00E-06	Flyer test
1,3-Butadiene	Detected in flyer test	2.00E-05	Flyer test
1,4-Dioxane	Detected in flyer test	1.00E-06	Flyer test
2,2,4-Trimethylpentane	Detected in flyer test	Assess qualitatively 2	
2-Butanone	Detected in flyer test	1.00E-05	Flyer test
2-Methylnaphthalene	AP-42	2.0E-06	AP-42 EF B535
4-Methyl-2-pentanone	Detected in flyer test	1.00E-06	Flyer test
Acenaphthene	AP-42	1.9E-04	AP-42 EF D540
Acenaphthylene	AP-42	5.0E-06	AP-42 EF H459
Acetaldehyde	AP-42	4.6E-03	AP-42 EF D540
Acetone	Detected in flyer test	4.50E-05	Flyer test
Acetonitrile	Detected in flyer test	2.70E-05	Flyer test

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
Acetylene black	RFAAP Chemical	Assess qualitatively 2	
Acrolein	AP-42	5.9E-05	AP-42 EF A065
Acrylonitrile	AP-42	1.3E-04	AP-42 EF D540
Anthracene	AP-42	0.0E+00	AP-42 EF D540, H459
Benzene	Detected in flyer test	3.11E-04	Flyer test
Benzyl chloride	AP-42	0.0E+00	AP-42 EF C511
Butyl acetate	RFAAP Chemical	Assess qualitatively 2	
Butyraldehyde	AP-42	1.4E-05	AP-42 EF A086
Candelilla wax	RFAAP Chemical	Assess qualitatively 2	
Carbon tetrachloride	Detected in flyer test	1.09E-06	Flyer test
Cellulose	RFAAP Chemical	Assess qualitatively 2	
Cellulose acetate	RFAAP Chemical	Assess qualitatively 2	
Chloroethane	Detected in flyer test	2.00E-06	Flyer test
Chloroform	Detected in flyer test	0.00E+00	Flyer test
Chloromethane	Detected in flyer test	8.00E-06	Flyer test
Crotonaldehyde	AP-42	7.0E-06	AP-42 EF B627
Cumene	Detected in flyer test	4.00E-06	Flyer test
Dichlorodifluoromethane	Detected in flyer test	7.00E-06	Flyer test
Diethylene glycol	RFAAP Chemical	Assess qualitatively 2	
Diethylene glycol dinitrate	RFAAP Chemical	Assess qualitatively 2	

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
Diethylene glycol monomethyl ether	RFAAP Chemical	Assess qualitatively 2	
Di-n-propyl adipate	RFAAP Chemical	Assess qualitatively 2	
Ethanol	Detected in flyer test	1.06E-05	Flyer test
Ethyl acetate	RFAAP Chemical	Assess qualitatively 2	
Ethyl acrylate	AP-42	1.2E-08	AP-42 EF C511
Ethyl cellulose	RFAAP Chemical	Assess qualitatively 2	
Ethylbenzene	Detected in flyer test	2.10E-05	Flyer test
Ethylene	AP-42	1.6E-01	AP-42 EF D540
Fluoranthene	AP-42	1.0E-06	AP-42 EF H974
Fluorene	AP-42	Assess qualitatively 2	
Formaldehyde	AP-42	3.1E-03	AP-42 EF D540
Glycollate	RFAAP Chemical	Assess qualitatively 2	
Hexachlorobenzene	AP-42	2.7E-03	AP-42 EF K867
Lead carbonate	RFAAP Chemical	Assess qualitatively 2	
Lead resorcylate	RFAAP Chemical	Assess qualitatively 2	
Lead salicylate	RFAAP Chemical	Assess qualitatively 2	
Lead stearate	RFAAP Chemical	Assess qualitatively 2	
m,p-Xylenes	Detected in flyer test	4.11E-05	Flyer test
Magnesium stearate	RFAAP Chemical	Assess qualitatively 2	
Methane	AP-42	4.6E-03	AP-42 EF B519
Methyl bromide	AP-42	0.0E+00	AP-42 EF C511
Methylene chloride	Detected in flyer test	1.26E-04	Flyer test

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
Methyl methacrylate	AP-42	Assess qualitatively 2	
Metriol trinitrate	RFAAP Chemical	Assess qualitatively 2	
Naphthalene	Detected in flyer test	1.45E-04	Flyer test
n-Butyl stearate	RFAAP Chemical	Assess qualitatively 2	
n-Heptane	Detected in flyer test	Assess qualitatively 2	
n-Hexane	Detected in flyer test	1.63E-05	Flyer test
Nitromethane	RFAAP Chemical	Assess qualitatively 2	
Octabenzone	AP-42	Assess qualitatively 2	
n-Octane	Detected in flyer test	Assess qualitatively 2	
o-Xylene	Detected in flyer test	1.60E-05	Flyer test
Phenanthrene	AP-42	2.0E-06	AP-42 EF H459
Phenol	AP-42	1.8E-05	AP-42 EF D540
Propionaldehyde	AP-42	8.0E-06	AP-42 EF B627
Propylene	AP-42	Assess qualitatively 2	
Pyrene	AP-42	4.6E-06	AP-42 EF H459
Rosolic acid	RFAAP Chemical	Assess qualitatively 2	
Styrene	Detected in flyer test	5.07E-05	Flyer test
Tetrachloroethene	Detected in flyer test	1.00E-06	Flyer test
Tetrahydrofuran	Detected in flyer test	1.00E-06	Flyer test
Toluene	Detected in flyer test	3.26E-04	Flyer test
Triacetin	RFAAP Chemical	Assess qualitatively 2	
Trichloroethylene	AP-42	1.3E-05	AP-42 EF K867

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
Trichlorofluoromethane	Detected in flyer test	2.00E-06	Flyer test
Trichlortrifluoroethane	Detected in flyer test	Assess qualitatively 2	
Triethylene glycol	RFAAP Chemical	Assess qualitatively 2	
Triethylene glycol dinitrate	RFAAP Chemical	Assess qualitatively 2	
Xylenes	Detected in flyer test	5.70E-05	Flyer test
Metals and Metallic Compounds			
Aluminum	Detected in flyer test	7.00E-06	Flyer test
Antimony	Detected in flyer test	2.00E-06	Flyer test
Antimony sulfide	RFAAP Chemical	Assess qualitatively 2	
Arsenic	Detected in flyer test	2.10E-05	Flyer test
Barium	Detected in flyer test	6.00E-06	Flyer test
Barium nitrate	RFAAP Chemical	Assess qualitatively 2	
Barium sulfate	RFAAP Chemical	Assess qualitatively 2	
Beryllium	AP-42	0.0E+00	AP-42 EF B627
Bromide	Detected in flyer test	Assess qualitatively 2	
Cadmium	Detected in flyer test	2.00E-06	Flyer test
Calcium	Detected in flyer test	2.80E-05	Flyer test
Chloride	Detected in flyer test	Assess qualitatively 2	
Chromium	Detected in flyer test	1.00E-06	Flyer test

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
Chromium nitrate	RFAAP Chemical	Assess qualitatively 2	
Copper	Detected in flyer test	3.07E-03	Flyer test
Cryolite	RFAAP Chemical	Assess qualitatively 2	
Gallium	Detected in flyer test	Assess qualitatively 2	
Germanium	Detected in flyer test	Assess qualitatively 2	
Hexavalent chromium	Detected in flyer test	0.00E+00	Flyer test
Indium	Detected in flyer test	Assess qualitatively 2	
Iron	Detected in flyer test	Assess qualitatively 2	
Lanthanum	Detected in flyer test	Assess qualitatively 2	
Lead	Detected in flyer test	1.02E-02	Flyer test
Magnesium	Detected in flyer test	1.63E-04	Flyer test
Magnesium oxide	RFAAP Chemical	Assess qualitatively 2	
Manganese	Detected in flyer test	0.00E+00	Flyer test
Molybdenum	Detected in flyer test	1.0E-06	Flyer test
Palladium	Detected in flyer test	Assess qualitatively 2	
Phosphorous	Detected in flyer test	4.00E-06	Flyer test
Potassium	Detected in flyer test	2.50E-05	Flyer test
Potassium cryolite	RFAAP Chemical	Assess qualitatively 2	

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR[1]**	**BASIS FOR EMISSION FACTOR**
Potassium nitrate	RFAAP Chemical	Assess qualitatively 2	
Potassium perchlorate	RFAAP Chemical	Assess qualitatively 2	
Potassium sulfate	RFAAP Chemical	Assess qualitatively 2	
Rubidium	Detected in flyer test	Assess qualitatively 2	
Silicon	Detected in flyer test	1.51E-04	Flyer test
Silver	Detected in flyer test	1.00E-06	Flyer test
Sodium	Detected in flyer test	9.12E-04	Flyer test
Strontium	Detected in flyer test	2.00E-06	Flyer test
Thallium	AP-42	4.00E-06	AP-42 EF A068
Tin	Detected in flyer test	1.00E-06	Flyer test
Titanium	Detected in flyer test	2.00E-06	Flyer test
Yttrium	Detected in flyer test	Assess qualitatively 2	
Zinc	Detected in flyer test	7.6E-06 Flyer test	
Zirconium carbide	RFAAP Chemical	Assess qualitatively 2	
Zirconium hydride	RFAAP Chemical	Assess qualitatively 2	
Zirconium silicate	RFAAP Chemical	Assess qualitatively 2	
Other Inorganics			
Ammonia	AP-42	1.3E-02 AP-42 EF D540	
Ammonium nitrate	RFAAP Chemical	Assess qualitatively 2	

Table 1 - Proposed COPCs, Emission Factors, and Rationale For Inclusion			
COMPOUND	**REASON FOR INCLUSION**	**PROPOSED EMISSION FACTOR1**	**BASIS FOR EMISSION FACTOR**
Ammonium perchlorate	RFAAP Chemical	Assess qualitatively 2	
Cyanide	AP-42	2.9E-04	AP-42 EF D541
Hydrogen chloride	Detected in flyer test	4.59E-04	Flyer test
Hydrogen cyanide	AP-42	5.8E-03	AP-42 EF A066
Hydrogen fluoride	AP-42	4.8E-05	AP-42 EF B642
Nitramine	RFAAP Chemical	Assess qualitatively 2	
Nitric acid	AP-42	1.2E-02	AP-42 EF D540
Sulfuric acid	AP-42	1.2E-02	AP-42 EF D540

1 All emission factors provided from the RFAAP flyer testing are presented in terms of pounds of pollutant emitted per pound of waste burned. All AP-42 emission factors are in terms of pounds of pollutant emitted per pound of energetic.
1 The impacts from this COPC will be evaluated qualitatively in the MPRA, as either USEPA does not provide the necessary combination of fate, transport, and toxicity data to permit a quantitative analysis of this compound or no emission factor was available for this compound or a chemically and/or thermally similar compound.
3 The emission factor for this compound has been set equal to the emission factor for a chemically similar compound or a compound with a similar thermal stability (TSI) ranking.
From Coterie Environmental, 2019.

Table 2 - Summary of Emission Scenarios.		
SOURCE PARAMETER	**SKID BURN**	**PROPELLANT BURN**
Maximum amount of waste (total)	2,000 pounds	8,000 pounds
Maximum amount of waste (per pan)	1,000 pounds	1,000 pounds
Number of pans	8	8
Volume of each pan	18 ft x 6 ft x 0.5 ft	18 ft x 6 ft x 0.5 ft
Effective height of release	1.25 ft (top of pan)	1.25 ft (top of pan)
Duration of burn	1 hour	5 minutes
Hours for burn	0800 - 1700 hours	0800 - 1700 hours
Conditions for burn Wind speed Precipitation	 3 mph - 15 mph No precipitation occurring	 3 mph - 15 mph No precipitation occurring
From Coterie Environmental, 2019.		

Table 3 - Study Area Habitat Distribution			
HABITAT TYPE	**CATEGORY**	**PERCENTAGE**	**HABITAT GROUPING**
Agriculture	Terrestrial	29.3%	Prairie
Developed	Terrestrial	20.0%	
Southern Appalachian Oak Forest	Terrestrial	21.7%	Forest
Southern Ridge and Valley/ Cumberland Dry Calcareous Forest	Terrestrial	18.6%	
Dry Oak-Pine Forest, Central Appalachians and Southern Piedmont	Terrestrial	3.91%	
Allegheny-Cumberland Dry Oak Forest and Woodland	Terrestrial	1.94%	
Southern and Central Appalachian Cover Forest	Terrestrial	1.12%	
Open Water	Aquatic	2.31%	Freshwater
From Coterie Environmental, 2019.			

Table 4 -Endangered, Threatened, and Imperiled Species					
SCIENTIFIC NAME	**SPECIES GROUP**	**FOOD WEB CLASSIFICATION**	**STATUS**	**LOCATION (COUNTY)**	**HABITAT**
Pseudanophthalmus sp. 7	Insects	Invertebrates	Critically imperiled	Pulaski	Freshwater soils
Litocampa sp. 1	Diplurans, springtails, and proturans	Invertebrates	Critically imperiled	Giles	Forest soils
Pygmarrhopalites commorus	Diplurans, springtails, and proturans	Invertebrates	Imperiled	Giles	Forest soils
Litocampa hoffmani	Diplurans, springtails, and proturans	Invertebrates	Imperiled	Montgomery, Pulaski	Forest soils
Pseudanophthalmus pusio	Insects	Invertebrates	Imperiled	Montgomery	Freshwater soils
Pseudotremia cavernarum	Millipedes and centipedes	Invertebrates	Imperiled	Giles, Montgomery	Freshwater soils
Pseudotremia cavernarum	Flowering plants	Plants	Critically imperiled	Montgomery	Forest
Pyrgus wyandot	Butterflies and skippers	Invertebrates	Critically imperiled	Montgomery	Forest
Corallorhiza bentleyi	Flowering plants	Plants	Imperiled	Giles	Forest

Table 4 -Endangered, Threatened, and Imperiled Species					
SCIENTIFIC NAME	**SPECIES GROUP**	**FOOD WEB CLASSIFICATION**	**STATUS**	**LOCATION (COUNTY)**	**HABITAT**
Cambarus callianus	Aquatic crustaceans	Invertebrates	Imperiled	Giles	Freshwater
Paxistima canbyi	Flowering plants	Plants	Imperiled	Giles, Montgomery, Pulaski	Forest
Stygobromus ephemerus	Aquatic crustaceans	Invertebrates	Critically imperiled	Giles	Freshwater
Caecidotea henroti	Aquatic crustaceans	Invertebrates	Imperiled	Giles, Pulaski	Freshwater
Myotis sodalis	Bats	Mammals	Listed endangered	Giles, Montgomery	Forest
Stygobromus abditus	Aquatic crustaceans	Invertebrates	Imperiled	Giles, Pulaski	Freshwater
Pleurobema collina	Aquatic mollusks	Invertebrates	Listed endangered	Giles	Freshwater
Brachypanorpa jeffersoni	Insects	Invertebrates	Imperiled	Giles	Forest
Neonympha mitchellii mitchellii	Butterflies and skippers	Invertebrates	Listed endangered	Pulaski	Prairie and forest
Noturus gilberti	Fish	Fish	Imperiled	Montgomery	Freshwater

Table 4 -Endangered, Threatened, and Imperiled Species					
SCIENTIFIC NAME	**SPECIES GROUP**	**FOOD WEB CLASSIFICATION**	**STATUS**	**LOCATION (COUNTY)**	**HABITAT**
Iliamna corei	Flowering plants	Plants	Listed endangered	Giles	Forest
Percina rex	Fish	Fish	Listed endangered	Montgomery	Freshwater
Echinacea laevigata	Flowering plants	Plants	Listed endangered	Montgomery, Pulaski	Forest
Pseudanophthalmus punctatus	Insects	Invertebrates	Imperiled	Giles	Freshwater
Pseudanophthalmus quadratus	Insects	Invertebrates	Critically imperiled	Giles	Freshwater soils
Phlox buckleyi	Flowering plants	Plants	Imperiled	Montgomery, Pulaski	Forest
Pycnanthemum torrei	Flowering plants	Plants	Imperiled	Giles	Forest
Polygyriscus virginianus	Aquatic mollusks	Invertebrates	Listed endangered	Pulaski	Freshwater
From Coterie Environmental, 2019.					

Table 5 -Proposed Community Measurement Receptors, Prairie and Forest Food Web					
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**		**COMMUNITY MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
		FOREST	**PRAIRIE**		
Terrestrial Plants	1	Sedges Rushes Coneflowers	Oaks Asters Grasses	Terrestrial Plants	Primary producers provide a critical food source and are the first link in the terrestrial food chain for higher trophic level consumers. In addition, vegetation provides critical habitat for wildlife.
Invertebrates and Other Herbivorous Invertebrates	2	Butterflies Snails Moths		Soil invertebrates	Soil invertebrates provide an important food source for many higher trophic level species. As decomposers/ detritovores they play a critical role in nutrient cycling. They also aid in soil aeration and infiltration by increasing macro and micro porosity. When in adult stages, many are essential to plant pollination.
From Coterie Environmental, 2019.					

Table 6 - Proposed Community Measurement Receptors, Freshwater Food Web				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**COMMUNITY MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Aquatic and Terrestrial Plants	1	Sedges Goldenrods Bluets	Terrestrial plants	Primary producers convert light energy into biomass and are the first link in aquatic food chains supporting higher trophic level aquatic and terrestrial consumers and wildlife. Rooted aquatic vegetation also provides habitat and bottom stability. Terrestrial vegetation provides critical habitat for wildlife.
Phytoplankton		Algae	Fresh water	Primary producers convert light energy into biomass and are the first link in aquatic food chains supporting higher trophic level aquatic and terrestrial consumers and wildlife.
Benthic Invertebrates	2	Crayfishes Snails Mussels	Freshwater sediment	Benthic invertebrates are an important food source for many higher trophic level consumers. Zooplankton and other small aqueous invertebrates regulate phytoplankton populations and are a critical link in energy transfer to higher trophic levels in aquatic ecosystems.

Table 6 - Proposed Community Measurement Receptors, Freshwater Food Web				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**COMMUNITY MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Insects and Other Herbivorous Invertebrates		Butterflies Moths Caddisflies	Soil invertebrates	Soil invertebrates provide an important food source for many higher trophic level species. As decomposers/detritovores they play a critical role in nutrient cycling. They also aid in soil aeration and infiltration by increasing macro and micro porosity. When in adult stages, many are essential to plant pollination.
Herbivorous Fish		Stonerollers	Fresh water	Herbivorous fish are an important prey species for higher trophic level predators in the aquatic and terrestrial ecosystems and provide a critical link for energy transfer from primary producers to higher trophic level consumers. They generally comprise the majority of tissue biomass in aquatic ecosystems and provide an important role to the ecosystem through regulating algae and plankton biomass.
From Coterie Environmental, 2019.				

Table 7 - Proposed Measurement Receptors: Combined Prairie/Forest Habitat					
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**		**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
		FOREST	**PRAIRIE**		
Herbivorous birds	2	Waxwings, Towhees, Grosbeaks, Bobwhites		Northern bobwhite	Herbivorous birds are an important prey item for many higher trophic level predators. They are also important in seed dispersal for many plants in both terrestrial and aquatic ecosystems.
		Crossbills Finches	Bobolinks Doves		
Herbivorous mammals		Squirrels, Deer, Rabbits, Voles		Meadow vole	Herbivorous mammals are an important prey item for many higher trophic level predators. They provide an important link for energy transfer between primary producers and higher trophic level consumers. In addition, these organisms generally comprise the majority of the terrestrial tissue biomass and are important in seed dispersal and pollination for many plant species.
Insectivorous birds	3	Warblers Sparrows		American woodcock	Insectivorous birds are an important prey item for higher trophic level

Table 7 - Proposed Measurement Receptors: Combined Prairie/Forest Habitat					
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**		**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
		FOREST	**PRAIRIE**		
		Woodpeckers Wrens	Swallows Flycatchers		predators and influence lower level trophic populations through predation.
Insectivorous mammals		Mice, Bats, Shrews		Short-tailed shrew	Insectivorous mammals are an important prey item for higher trophic level predators and influence lower level trophic populations through predation.
		Opossums Skunks	Muskrats		
Insectivorous amphibians / reptiles		Salamanders Frogs Toads		Green frog	Insectivorous amphibians and reptiles are an important prey item for higher trophic level predators and influence lower level trophic populations through predation.
Omnivorous birds		Turkeys Thrashers Robins		American robin	Omnivorous birds are an important prey item for higher trophic level predators. They also play an

Table 7 - Proposed Measurement Receptors: Combined Prairie/Forest Habitat					
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**		**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
		FOREST	**PRAIRIE**		
		Mockingbirds	Cowbirds		important role in seed dispersal and pollination for many types of terrestrial vegetation.
Omnivorous mammals	3	Bears Raccoons	Raccoon	Raccoon	Omnivorous mammals may be a prey item for higher trophic level predators and influence lower level trophic populations through predation. They also play an important role in seed dispersal for many types of terrestrial vegetation and aquatic plants.
Omnivorous reptiles		Cooters Turtles	Painted turtle	Painted Turtle	Omnivorous reptiles are an important food source for predators. They also provide seed dispersal for many plants and regulate lower trophic level populations through predation.

Table 7 - Proposed Measurement Receptors: Combined Prairie/Forest Habitat					
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**		**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
		FOREST	**PRAIRIE**		
Carnivorous birds	4	Falcons Vultures Hawks Owls	Red-tailed hawk	Red-tailed hawk	Carnivorous birds provide an important functional role to the environment by regulating lower trophic level prey populations.
Carnivorous mammals		FoxesMinksWeasels	Red fox	Red fox	Carnivorous mammals provide animportant functional role to theenvironment by regulating lowertrophic level prey populations.
Carnivorous reptiles		Snakes Skinks	Northern water snake	Northern water snake	Carnivorous reptiles provide an important functional role to the environment by regulating lower trophic level prey populations and are an important prey item for other upper trophic level predators.

Table 7 - Proposed Measurement Receptors: Combined Prairie/Forest Habitat					
COMMUNITY OR GUILD	TROPHIC LEVEL	PRIMARY SPECIES		MEASUREMENT RECEPTOR	CRITICAL ECOLOGICAL ATTRIBUTES
		FOREST	PRAIRIE		
From Coterie Environmental, 2019.					

Table 8 - Proposed Measurement Receptors: Freshwater Habitat				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Herbivorous birds	2	Geese Coots Waxwings	Canada goose	Herbivorous birds are an important prey item for many higher trophic level predators. They are important in seed dispersal for many plants in both terrestrial and aquatic ecosystems. Aquatic herbivorous birds may also play an important role in egg dispersion for fish and invertebrate species.

Table 8 - Proposed Measurement Receptors: Freshwater Habitat				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Herbivorous mammals		Moles Chipmunks Rabbits Lemmings Beavers	Meadow vole	Herbivorous mammals are an important prey item for many higher trophic level predators. They provide an important link for energy transfer between primary producers and higher trophic level consumers. In addition, these organisms generally comprise the majority of the terrestrial tissue biomass and are important in seed dispersal and pollination for many plant species.

Table 8 - Proposed Measurement Receptors: Freshwater Habitat				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Insectivorous birds	3	Flycatchers Sandpipers Phalaropes	American woodcock	Insectivorous birds are an important prey item for higher trophic level predators and influence lower level trophic populations through predation.
Insectivorous mammals		Mice Shrews Muskrats	Short-tailed shrew	Insectivorous mammals are an important prey item for higher trophic level predators and influence lower level trophic populations through predation.

Table 8 - Proposed Measurement Receptors: Freshwater Habitat				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Insectivorous amphibians / reptiles		Frogs Salamanders Toads	Green frog	Insectivorous amphibians and reptiles are an important prey item for higher trophic level predators and influence lower level trophic populations through predation.
Omnivorous birds		KingbirdsMallardsDucksGullsTeals	Mallard	Omnivorous birds are an important prey item for higher trophic level predators. They also play an important role in seed dispersal and pollination for many types of terrestrial vegetation and aquatic plants.

Table 8 - Proposed Measurement Receptors: Freshwater Habitat				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Omnivorous mammals		Bears Raccoons	Raccoon	Omnivorous mammals may be a prey item for higher trophic level predators and influence lower level trophic populations through predation. They also play an important role in seed dispersal for many types of terrestrial vegetation and aquatic plants.
Omnivorous reptiles	3	Cooters Turtles	Painted turtle	Omnivorous reptiles are an important food source for predators. They also provide seed dispersal for many plants and regulate lower trophic level populations through predation.

Table 8 - Proposed Measurement Receptors: Freshwater Habitat				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Carnivorous mammals	4	Minks	Red fox	Carnivorous mammals provide an important functional role to the environment by regulating lower trophic level prey populations.
Carnivorous reptiles		Snakes	Northern water snake	Carnivorous reptiles provide an important functional role to the environment by regulating lower trophic level prey populations and are an important prey item for other upper trophic level predators.

Table 8 - Proposed Measurement Receptors: Freshwater Habitat				
COMMUNITY OR GUILD	**TROPHIC LEVEL**	**PRIMARY SPECIES**	**MEASUREMENT RECEPTOR**	**CRITICAL ECOLOGICAL ATTRIBUTES**
Carnivorous shore birds		Herons Cormorants Grebes	Great blue heron	Carnivorous shore birds provide an important functional role to the environment by regulating lower trophic level prey populations and influencing species composition in terrestrial and aquatic ecosystems. They also provide egg dispersal for some fish and aquatic invertebrates.
From Coterie Environmental, 2019.				

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	0.0011	SLERA	0.32	SLERA	4311	SLERA	726.4	SLERA	931.7	SLERA	343.2	SLERA
1,2,4-TRIMETHYLBENZENE	95-63-6	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
1,3,5-TRIMETHYLBENZENE	108-67-8	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
1,3-BUTADIENE	106-99-0	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
1,4-Dioxane	123-91-1	55.32	SLERA	0.04	SLERA	0.04	SLERA	0.04	SLERA	0	Null	0.04	SLERA
2,3,4,7,8-PeCDF	57117-31-4	0	ORNL	2.54	SLERA	3	USACoE	5283	EcoRisk	6776	Eco Risk	2496	SLERA

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
2-Butanone	78-93-3	26.1	ORNL	0.55	LANL	0.55	LANL	0.12	EquationWA	3.16	ORNL	0.12	EquationWI
2-NITROPHENOL	88-75-5	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
4-Methyl-2-pentanone	108-10-1	6.69	ORNL	1.32	LANL	1.32	LANL	0.69	EquationWA	3.4	ORNL	0.69	EquationWI
ACENAPHTHENE	83-32-9	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
ACETALDEHYDE	75-07-0	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Acetone	67-64-1	53	ORNL	0.53	LANL	0.53	LANL	0.05	EcoRisk	0.1	Eco Risk	0.05	EcoRisk
ACETONITRILE	75-05-8	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
ACROLEIN	107-02-8	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
ACRYLONITRILE	107-13-1	27.77	SLERA	0.11	SLERA	0.11	SLERA	0.11	SLERA	48	SLERA	0.11	SLERA
Aluminum	7429-90-5	0	ORNL	0.01	LANL	0.01	LANL	833	EcoRisk	2.7	Eco Risk	4066	EcoRisk
Ammonia	7664-41-7	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
ANTHRACENE	120-12-7	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Antimony	7440-	0.2	ORNL	0.17	EcoSSL	0	LANL	1475	EcoRisk	40	Eco Risk	7	EcoRisk

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
	36-0												
Arsenic	7440-38-2	0.04	SLERA	0.11	SLERA	0.9	SLERA	293	SLERA	114	SLERA	73	SLERA
Barium	7440-39-3	0.16	EcoSSL	0.02	EcoSSL	0.02	LANL	260	EcoRisk	633	Eco Risk	200	EcoRisk
BENZ(A)ANTHRACENE	56-55-3	0.0202	SLERA	0.03	SLERA	1.45	SLERA	5258	SLERA	500	SLERA	12299	SLERA
Benzene	71-43-2	2.24	ORNL	0.45	LANL	0.45	LANL	3.75	EquationWA	0	Null	3.75	EquationWI
Benzo(a)pyrene	50-32-8	0.01	ORNL	0.22	EcoSSL	0.07	LANL	5258	EcoRisk	500	SLERA	4697	EcoRisk
BENZO(B)FLUORANTHENE	205-99-2	0.0101	SLERA	0.07	SLERA	1.61	SLERA	5258	SLERA	500	SLERA	4697	SLERA

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
BENZO(K)FLUORANTHENE	207-08-9	0.0101	SLERA	0.08	SLERA	1.61	SLERA	5258	SLERA	500	SLERA	13225	SLERA
BENZYL CHLORIDE	100-44-7	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Beryllium	7440-41-7	0.01	SLERA	0.22	SLERA	0.9	SLERA	141	SLERA	62	SLERA	45	SLERA
Bis-2-Ethylhexyl phthalate	117-81-7	0.04	SLERA	1309	SLERA	1309	SLERA	9931	SLERA	70	SLERA	318	SLERA
BUTYLBENZYLPHTHALATE	85-68-7	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Cadmium	7440-43-9	0.5	ORNL	2.38	LANL	2.38	LANL	782	EcoRisk	907	Eco Risk	3461	EcoRisk

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
Carbon tetrachloride	56-23-5	0.88	ORNL	12	EcoRisk	12	EcoRisk	300	EcoRisk	30	SLERA	12	EcoRisk
CHLOROETHANE	75-00-3	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Chloroform	67-66-3	2.9	SLERA	2.82	SLERA	2.82	SLERA	2.82	SLERA	3.59	SLERA	2.82	SLERA
Chromium	7440-47-3	0.04	EcoSSL	0.05	EcoSSL	0.03	LANL	4406	EcoRisk	19	Eco Risk	3000	EcoRisk
CHRYSENE	218-01-9	0.0187	SLERA	0.04	SLERA	1.38	SLERA	5258	SLERA	500	SLERA	980	SLERA
Copper	7440-50-8	0.4	ORNL	0.09	EcoSSL	0.3	EcoRisk	541	EcoRisk	710	Eco Risk	3718	EcoRisk
CROTONALDEHYDE	123-	18.63	SLERA	0.2	SLERA	0.2	SLERA	0.2	SLERA	0.52	SLERA	0.2	SLERA

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
	73-9												
CUMENE (ISOPROPYLBENZENE)	98-82-8	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Cyanide	57-12-5	0	Null	1.12	SLERA	0.9	SLERA	22	SLERA	1	WQC	4066	SLERA
DIBENZ(A,H)ANTHRACENE	53-70-3	0.0064	SLERA	0.07	SLERA	1.61	SLERA	5258	SLERA	500	SLERA	710	SLERA
Dibutyl phthalate	84-74-2	0.09	ORNL	5.95	LANL	5.95	LANL	505.01	EquationWA	0	Null	505.01	EquationWI
DICHLORODIFLUOROMETHANE	75-71-8	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Diethyl phthalate	84-66-2	1.52	ORNL	1.06	LANL	1.06	LANL	7.97	EquationWA	0	Null	7.97	EquationWI
Dimethyl phthalate	131-	4.6	EquationSP	1.46	EquationSI	1.46	EquationSBI	1.46	EquationWA	0	Null	1.46	EquationWI

Table 9 - Bioaccumulation Factors													
COPC	CAS	Soil to Plant	Source	Soil to Invertebrate	Source	Sediment to Invertebrate	Source	Water to Algae	Source	Water to Fish	Source	Water to Invertebrate	Source
	11-3												
Dioctyl phthalate	117-84-0	0.00016	SLERA	3128023	SLERA	3128023	SLERA	28500	SLERA	9400	SLERA	5946	SLERA
ETHYL ACRYLATE	140-88-5	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
ETHYLBENZENE	100-41-4	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
FLUORANTHENE	206-44-0	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Formaldehyde	50-00-0	24.1	ORNL	0.14	EcoRisk	0.14	EcoRisk	0.14	EcoRisk	0.34	Eco Risk	0.14	EcoRisk
HEXACHLOROBENZENE	118-	0.0255	SLERA	2296	SLERA	2296	SLERA	11134	SLERA	253	SLERA	2595	SLERA

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
	74-1												
HEXANE, N-	110-54-3	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Hexavalent chromium	18540-29-9	0.01	ORNL	0.01	LANL	0.01	LANL	0.07	EquationWA	200	ORNL	0.07	EquationWI
HYDROGEN CHLORIDE	7647-01-0	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
HYDROGEN CYANIDE	74-90-8	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
HYDROGEN FLOURIDE	7664-39-3	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
INDENO(1,2,3-CD)PYRENE	193-	0.0039	SLERA	0.08	SLERA	1.61	SLERA	5258	SLERA	500	SLERA	4697	SLERA

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
	39-5												
Lead	7439-92-1	0.05	ORNL	0.03	EcoRisk	0.63	EcoRisk	1706	EcoRisk	0.09	Eco Risk	5059	EcoRisk
Manganese	7439-96-5	0.08	EcoSSL	0.01	LANL	0.01	LANL	0	Null	80	ORNL	4066	Aluminum
MERCURIC CHLORIDE	7487-94-7	0.0375	SLERA	0.04	SLERA	0	Null	24762	SLERA	0	Null	20184	SLERA
MERCURY	7439-97-6	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
METHYL BROMIDE	74-83-9	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
METHYL CHLORIDE	74-87-3	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
METHYL MERCURY	22967-92-6	0.137	SLERA	8.5	SLERA	0.48	SLERA	80000	SLERA	11168	SLERA	55000	SLERA
Methylene chloride	75-09-2	7.25	ORNL	0.53	LANL	0.53	LANL	0.83	EquationWA	23.1	ORNL	0.83	EquationWI
METHYLNAPHTHALENE, 2-	91-57-6	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Molybdenum	7439-98-7	0	Null	0	Null	0	Null	0	Null	10	ORNL	0	Null
M-XYLENE	108-38-3	0.58	Xylenes	27.67	Xylenes	27.67	Xylenes	27.67	Xylenes	748.7	Xylenes	27.67	Xylenes

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
Naphthalene	91-20-3	12.2	EcoSSL	0	Null	0.42	LANL	36.03	EquationWA	84.5	ORNL	36.03	EquationWI
O-XYLENE	95-47-6	0.58	Xylenes	27.67	Xylenes	27.67	Xylenes	27.67	Xylenes	748.7	Xylenes	27.67	Xylenes
PHENANTHRENE	85-01-8	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
PHENOL	108-95-2	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
PHOSPHOROUS	7723-14-0	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
PROPIONALDEHYDE	123-38-6	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
P-XYLENE	106-	0.58	Xylenes	27.67	Xylenes	27.67	Xylenes	27.67	Xylenes	748.7	Xylenes	27.67	Xylenes

Table 9 - Bioaccumulation Factors													
COPC	CAS	Soil to Plant	Source	Soil to Invertebrate	Source	Sediment to Invertebrate	Source	Water to Algae	Source	Water to Fish	Source	Water to Invertebrate	Source
	42-3												
PYRENE	129-00-0	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
PYRIDINE	110-86-1	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Silver	7440-22-4	0.01	EcoSSL	0.34	EcoSSL	0.34	LANL	10696	EcoRisk	87.71	Eco Risk	298	EcoRisk
Strontium	7440-24-6	0	Null	0	Null	0	Null	0	Null	60	ORNL	0	Null
STYRENE	100-42-5	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
SULFURIC ACID	7664-93-9	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
TETRACHLOROETHYLENE	127-18-4	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
TETRAHYDROFURAN	109-99-9	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Thallium	7440-28-0	0.004	SLERA	0.22	SLERA	0.9	SLERA	15000	SLERA	10000	SLERA	15000	SLERA
Tin	7440-31-5	0	Null	0	Null	0	Null	0	Null	3000	ORNL	0	Null
Toluene	108-	1	ORNL	0.94	LANL	0.94	LANL	11.62	EquationWA	0	Null	11.62	EquationWI

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
	88-3												
Trichloroethylene	79-01-6	1.2	EquationSP	9.81	EquationSI	9.81	EquationSBI	9.81	EquationWA	0	Null	9.81	EquationWI
TRICHLOROFLUOROMETHANE	75-69-4	0	Null	0	Null	0	Null	0	Null	0	Null	0	Null
Zinc	7440-66-6	0.99	ORNL	0.63	LANL	0.63	LANL	2175	EcoRisk	2059	Eco Risk	4578	EcoRisk

Key:

Null: No Value

ECOSSL: EPA Soil Screening Levels (EPA,2003)

SLERA: Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities (EPA, 2012)

ORNL: Oak Ridge National Laboratory (From EPA EcoToolBox)

LANL: Los Alomos National Laboratory ECORISK Database (LANL, 2017)

EcoRisk : RAP (2019)

EquationSP: RAP

EquationSI: RAP

Table 9 - Bioaccumulation Factors													
COPC	**CAS**	**Soil to Plant**	**Source**	**Soil to Invertebrate**	**Source**	**Sediment to Invertebrate**	**Source**	**Water to Algae**	**Source**	**Water to Fish**	**Source**	**Water to Invertebrate**	**Source**
EquationSBI: RAP													
EquationWA: RAP													
Xylenes: RAP													

Table 10 - Food Chain Multipliers						
Constituent	**CAS**	**Log Kow**	**Log Kow Reference**	**FCMTL 2**	**FCMTL 3**	**FCMTL 4**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	6.8	Protocol	1	14	27
1,2,4-TRIMETHYLBENZENE	95-63-6	3.6	RSLMay2019	1	1.1	1
1,3,5-TRIMETHYLBENZENE	108-67-8	3.4	RSLMay2019	1	1.1	1
1,3-BUTADIENE	106-99-0	2	RSLMay2019	1	1	1
1,4-DIOXANE	123-91-1	-0.3	RSLMay2019	1	1	1
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	6.9	RSLMay2019	1	14	27
2-NITROPHENOL	88-75-5	1.79	PubChem NIH	1	1	1
ACENAPHTHENE	83-32-9	3.9	RSLMay2019	1	1.2	1.1
ACETALDEHYDE	75-07-0	-0.3	RSLMay2019	1	1	1
ACETONE	67-64-1	-0.2	RSLMay2019	1	1	1
ACETONITRILE	75-05-8	-0.3	RSLMay2019	1	1	1
ACROLEIN	107-02-8	0	RSLMay2019	1	1	1
ACRYLONITRILE	107-13-1	0.2	RSLMay2019	1	1	1
ALUMINUM	7429-90-5		NoRSLLogKow	1	1	1
AMMONIA	7664-41-7	0.2	RSLMay2019	1	1	1
ANTHRACENE	120-12-7	4.4	RSLMay2019	1	1.6	1.2
ANTIMONY	7440-36-0		NoRSLLogKow	1	1	1
ARSENIC	7440-38-2		NoRSLLogKow	1	1	1
BARIUM	7440-39-3		NoRSLLogKow	1	1	1
BENZ(A)ANTHRACENE	56-55-3	5.8	RSLMay2019	1	8.8	12

Table 10 - Food Chain Multipliers						
Constituent	**CAS**	**Log Kow**	**Log Kow Reference**	**FCMTL 2**	**FCMTL 3**	**FCMTL 4**
BENZENE	71-43-2	2.1	RSLMay2019	1	1	1
BENZO(A)PYRENE	50-32-8	6.1	RSLMay2019	1	11	18
BENZO(B)FLUORANTHENE	205-99-2	5.8	RSLMay2019	1	8.8	12
BENZO(K)FLUORANTHENE	207-08-9	6.1	RSLMay2019	1	11	18
BENZYL CHLORIDE	100-44-7	2.3	RSLMay2019	1	1	1
BERYLLIUM	7440-41-7		NoRSLLogKow	1	1	1
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	7.6	RSLMay2019	1	12	17
BUTYLBENZYLPHTHALATE	85-68-7	4.7	RSLMay2019	1	2.2	1.6
CADMIUM	7440-43-9	0	RSLMay2019	1	1	1
CARBON TETRACHLORIDE	56-23-5	2.8	RSLMay2019	1	1	1
CHLOROETHANE	75-00-3	1.4	RSLMay2019	1	1	1
CHLOROFORM	67-66-3	2	RSLMay2019	1	1	1
CHROMIUM	7440-47-3		NoRSLLogKow	1	1	1
CHRYSENE	218-01-9	5.8	RSLMay2019	1	8.8	12
COPPER	7440-50-8		NoRSLLogKow	1	1	1
CROTONALDEHYDE	123-73-9	0.6	RSLMay2019	1	1	1
CUMENE (ISOPROPYLBENZENE)	98-82-8	3.7	RSLMay2019	1	1.1	1
CYANIDE	57-12-5		NoRSLLogKow	1	1	1
DIBENZ(A,H)ANTHRACENE	53-70-3	6.8	RSLMay2019	1	14	27
DICHLORODIFLUOROMETHANE	75-71-8	2.2	RSLMay2019	1	1	1
DIETHYL PHTHALATE	84-66-2	2.4	RSLMay2019	1	1	1
DIMETHYL PHTHALATE	131-11-3	1.6	Protocol	1	1	1

Table 10 - Food Chain Multipliers						
Constituent	**CAS**	**Log Kow**	**Log Kow Reference**	**FCMTL 2**	**FCMTL 3**	**FCMTL 4**
DI-N-BUTYL PHTHALATE	84-74-2	4.5	RSLMay2019	1	1.8	1.3
DI-N-OCTYL PHTHALATE	117-84-0	8.1	RSLMay2019	1	7.3	6
ETHYL ACRYLATE	140-88-5	1.3	RSLMay2019	1	1	1
ETHYLBENZENE	100-41-4	3.2	RSLMay2019	1	1	1
FLUORANTHENE	206-44-0	5.2	RSLMay2019	1	4.2	3.9
FORMALDEHYDE	50-00-0	0.4	RSLMay2019	1	1	1
HEXACHLOROBENZENE	118-74-1	5.7	RSLMay2019	1	8	10
HEXANE, N-	110-54-3	3.9	RSLMay2019	1	1.2	1.1
HEXAVALENT CHROMIUM	18540-29-9		NoRSLLogKow	1	1	1
HYDROGEN CHLORIDE	7647-01-0		NoRSLLogKow	1	1	1
HYDROGEN CYANIDE	74-90-8	-0.2	RSLMay2019	1	1	1
HYDROGEN FLOURIDE	7664-39-3	0.2	RSLMay2019	1	1	1
INDENO(1,2,3-CD)PYRENE	193-39-5	6.7	RSLMay2019	1	14	26
LEAD	7439-92-1		NoRSLLogKow	1	1	1
MANGANESE	7439-96-5	0	RSLMay2019	1	1	1
MERCURIC CHLORIDE	7487-94-7	-0.2	RSLMay2019	1	1	1
MERCURY	7439-97-6	0.6	RSLMay2019	1	1	1
METHYL BROMIDE	74-83-9	1.2	RSLMay2019	1	1	1
METHYL CHLORIDE	74-87-3	0.9	RSLMay2019	1	1	1
METHYL ETHYL KETONE	78-93-3	0.3	RSLMay2019	1	1	1
METHYL ISOBUTYL KETONE	108-10-1	1.3	RSLMay2019	1	1	1

Table 10 - Food Chain Multipliers						
Constituent	**CAS**	**Log Kow**	**Log Kow Reference**	**FCMTL 2**	**FCMTL 3**	**FCMTL 4**
METHYL MERCURY	22967-92-6		NoRSLLogKow	1	1	1
METHYLENE CHLORIDE	75-09-2	1.2	RSLMay2019	1	1	1
METHYLNAPHTHALENE, 2-	91-57-6	3.9	RSLMay2019	1	1.2	1.1
MOLYBDENUM	7439-98-7		NoRSLLogKow	1	1	1
M-XYLENE	108-38-3	3.2	RSLMay2019	1	1	1
NAPHTHALENE	91-20-3	3.3	RSLMay2019	1	1.1	1
O-XYLENE	95-47-6	3.1	RSLMay2019	1	1	1
PHENANTHRENE	85-01-8	4.46	PubChem NIH	1	1.8	4.3
PHENOL	108-95-2	1.5	RSLMay2019	1	1	1
PHOSPHOROUS	7723-14-0	3.1	RSLMay2019	1	1	1
PROPIONALDEHYDE	123-38-6	0.6	RSLMay2019	1	1	1
P-XYLENE	106-42-3	3.2	RSLMay2019	1	1	1
PYRENE	129-00-0	4.9	RSLMay2019	1	2.8	2.2
PYRIDINE	110-86-1	0.6	RSLMay2019	1	1	1
SILVER	7440-22-4		NoRSLLogKow	1	1	1
STRONTIUM	7440-24-6		NoRSLLogKow	1	1	1
STYRENE	100-42-5	3	RSLMay2019	1	1	1
SULFURIC ACID	7664-93-9		NoRSLLogKow	1	1	1
TETRACHLOROETHYLENE	127-18-4	3.4	RSLMay2019	1	1.1	1
TETRAHYDROFURAN	109-99-9	0.5	RSLMay2019	1	1	1
THALLIUM	7440-28-0		NoRSLLogKow	1	1	1

Table 10 - Food Chain Multipliers						
Constituent	**CAS**	**Log Kow**	**Log Kow Reference**	**FCMTL 2**	**FCMTL 3**	**FCMTL 4**
TIN	7440-31-5		NoRSLLogKow	1	1	1
TOLUENE	108-88-3	2.7	RSLMay2019	1	1	1
TRICHLOROETHYLENE	79-01-6	2.4	RSLMay2019	1	1	1
TRICHLOROFLUOROMETHANE	75-69-4	2.5	RSLMay2019	1	1	1
ZINC	7440-66-6		NoRSLLogKow	1	1	1
Protocol: RAP (2019)						
RSLMay2019: EPA Risk Screening Level Tables May 2019						
NoRSLLogKow: No Value						

Table 11 - Media Concentrations: 183 Day Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.6424E-10	3.0412E-16	1.2165E-14	4.1331E-11
1,2,4-TRIMETHYLBENZENE	95-63-6	1.5972E-21	1.0466E-16	0	3.757E-15
1,3,5-TRIMETHYLBENZENE	108-67-8	0	2.4915E-12	1.7443E-11	6.0005E-11
1,3-BUTADIENE	106-99-0	2.9287E-21	8.8029E-13	1.0002E-10	1.5884E-12
1,4-DIOXANE	123-91-1	0	1.025E-11	8.0679E-12	3.5874E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.799E-09	4.945E-15	3.1596E-11	3.4311E-10
2-NITROPHENOL	88-75-5	0	1.9796E-11	1.1713E-15	2.7912E-11
ACENAPHTHENE	83-32-9	0	4.1492E-12	1.5268E-09	8.1325E-10
ACETALDEHYDE	75-07-0	0	1.5268E-09	5.8422E-10	3.0536E-11
ACETONE	67-64-1	0	5.8422E-10	3.5449E-10	5.6085E-11
ACETONITRILE	75-05-8	0	3.5449E-10	9.8315E-11	7.0898E-12
ACROLEIN	107-02-8	0	9.8315E-11	1.2225E-09	5.4762E-12
ACRYLONITRILE	107-13-1	0	1.2225E-09	4.0589E-12	4.1566E-10
ALUMINUM	7429-90-5	5.3468E-05	2.6888E-08	1.4228E-07	4.0309E-05
AMMONIA	7664-41-7	3.072E-17	1.4228E-07	8.8032E-13	9.5845E-09
ANTHRACENE	120-12-7	0	3.9886E-12	2.9808E-13	3.7493E-09
ANTIMONY	7440-36-0	0	2.9795E-13	7.4195E-08	1.3408E-11
ARSENIC	7440-38-2	2.7773E-08	7.4174E-08	2.2619E-08	2.151E-06
BARIUM	7440-39-3	9.2167E-09	2.2609E-08	1.7753E-10	9.2698E-07

Table 11 - Media Concentrations: 183 Day Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
BENZ(A)ANTHRACENE	56-55-3	5.8725E-05	1.0221E-09	3.0595E-09	7.1328E-06
BENZENE	71-43-2	0	1.7751E-10	1.1577E-09	1.0353E-09
BENZO(A)PYRENE	50-32-8	0.00011311	2.1238E-09	8.9867E-11	4.9382E-05
BENZO(B)FLUORANTHENE	205-99-2	3.5742E-06	6.1996E-11	1.5943E-09	1.4656E-06
BENZO(K)FLUORANTHENE	207-08-9	0.00020478	1.1067E-09	0	2.4912E-05
BENZYL CHLORIDE	100-44-7	0	0	1.1614E-09	0
BERYLLIUM	7440-41-7	5.9552E-07	1.1523E-09	1.1403E-09	9.1011E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	0.00017039	8.8577E-08	8.8999E-11	0.0003931
BUTYLBENZYLPHTHALATE	85-68-7	6.0053E-07	1.1342E-09	7.1297E-09	3.2368E-07
CADMIUM	7440-43-9	1.7015E-07	7.1244E-09	1.2751E-13	5.3427E-07
CARBON TETRACHLORIDE	56-23-5	0	1.2751E-13	7.0392E-13	2.2386E-13
CHLOROETHANE	75-00-3	0	7.0391E-13	1.9143E-13	6.1184E-13
CHLOROFORM	67-66-3	0	1.9142E-13	1.5973E-08	2.4364E-13
CHROMIUM	7440-47-3	0.00249052	8.4067E-10	2.5365E-15	0.0014749
CHRYSENE	218-01-9	4.4926E-05	5.5087E-10	9.864E-13	3.897E-06
COPPER	7440-50-8	0.00015287	1.112E-05	1.2258E-09	0.00038914
CROTONALDEHYDE	123-73-9	2.4769E-17	1.0002E-10	6.9695E-14	1.5567E-11
CUMENE (ISOPROPYLBENZENE)	98-82-8	0	9.8571E-13	3.1687E-09	3.6669E-11
CYANIDE	57-12-5	0	3.1687E-09	2.0524E-09	0
DIBENZ(A,H)ANTHRACENE	53-70-3	1.9692E-05	1.4361E-10	6.5323E-14	1.007E-05
DICHLORODIFLUOROMETHANE	75-71-8	0	6.5321E-14	4.3695E-11	1.1468E-13

Table 11 - Media Concentrations: 183 Day Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
DIETHYL PHTHALATE	84-66-2	0	4.3693E-11	4.3811E-11	1.4331E-10
DIMETHYL PHTHALATE	131-11-3	0	4.3802E-11	1.025E-11	4.643E-10
DI-N-BUTYL PHTHALATE	84-74-2	2.0352E-06	2.05E-09	3.1965E-08	1.2273E-07
DI-N-OCTYL PHTHALATE	117-84-0	6.8591E-05	2.8912E-08	3.3604E-10	0.00016274
ETHYL ACRYLATE	140-88-5	1.2446E-20	6.9694E-14	3.6183E-08	5.5347E-14
ETHYLBENZENE	100-41-4	0	8.0652E-12	9.5952E-08	1.4392E-10
FLUORANTHENE	206-44-0	2.5195E-06	8.5838E-11	1.8112E-08	1.6707E-07
FORMALDEHYDE	50-00-0	0	1.8112E-08	0	7.2449E-10
HEXACHLOROBENZENE	118-74-1	0	0	8.8183E-19	0
HEXANE, N-	110-54-3	4.2019E-18	2.8714E-14	9.1624E-12	1.5104E-13
HEXAVALENT CHROMIUM	18540-29-9	0	2.536E-15	6.2545E-10	4.8185E-14
HYDROGEN CHLORIDE	7647-01-0	0	8.8183E-19	5.1499E-09	8.818E-118
HYDROGEN CYANIDE	74-90-8	1.1195E-13	3.6183E-08	5.1732E-10	8.2241E-10
HYDROGEN FLOURIDE	7664-39-3	1.9836E-18	5.1732E-10	3.1432E-09	3.4849E-11
INDENO(1,2,3-CD)PYRENE	193-39-5	0.00023792	2.0907E-09	0	0.00016088
LEAD	7439-92-1	0.01300292	3.6574E-05	4.1645E-12	0.03291181
MANGANESE	7439-96-5	3.2183E-09	1.225E-09	2.7291E-08	7.9623E-08
MERCURIC CHLORIDE	7487-94-7	0	0	0	0
MERCURY	7439-97-6	0	0	0	0
METHYL BROMIDE	74-83-9	0	0	2.9481E-12	0

Table 11 - Media Concentrations: 183 Day Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
METHYL CHLORIDE	74-87-3	0	2.9481E-12	1.2219E-10	1.559E-12
METHYL ETHYL KETONE	78-93-3	0	1.2219E-10	1.3326E-11	2.2043E-11
METHYL ISOBUTYL KETONE	108-10-1	0	1.3326E-11	1.2504E-10	6.3965E-12
METHYL MERCURY	22967-92-6	0	0	3.6904E-05	0
METHYLENE CHLORIDE	75-09-2	0	1.2504E-10	7.0159E-10	1.0868E-10
METHYLNAPHTHALENE, 2-	91-57-6	2.6485E-09	9.1454E-12	1.1124E-05	9.0631E-10
MOLYBDENUM	7439-98-7	8.3011E-08	3.1425E-09	7.2591E-12	6.282E-08
M-XYLENE	108-38-3	0	1.7438E-11	9.3949E-12	2.6179E-10
NAPHTHALENE	91-20-3	0	7.0078E-10	1.9796E-11	4.328E-08
O-XYLENE	95-47-6	0	9.3922E-12	1.812E-11	1.4385E-10
PHENANTHRENE	85-01-8	0	3.098E-11	1.811E-10	3.2879E-08
PHENOL	108-95-2	0	1.8107E-10	1.8819E-10	1.3559E-09
PHOSPHOROUS	7723-14-0	6.5817E-15	7.2573E-12	1.0164E-10	9.5562E-11
PROPIONALDEHYDE	123-38-6	6.7089E-19	1.0164E-10	5.4794E-09	1.5465E-11
P-XYLENE	106-42-3	0	1.8115E-11	2.7302E-08	2.7194E-10
PYRENE	129-00-0	2.014E-05	1.8082E-10	1.4398E-11	3.7738E-07
PYRIDINE	110-86-1	0	1.4397E-11	4.5155E-09	4.1303E-11
SILVER	7440-22-4	3.7258E-10	4.5151E-09	5.4264E-11	3.7476E-08
STRONTIUM	7440-24-6	9.4229E-08	5.4774E-09	0	1.9168E-07
STYRENE	100-42-5	0	5.4246E-11	1.1005E-13	9.6797E-10

Table 11 - Media Concentrations: 183 Day Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
SULFURIC ACID	7664-93-9	0	0	3.382E-09	0
TETRACHLOROETHYLENE	127-18-4	0	1.1004E-13	8.3615E-12	4.1789E-13
TETRAHYDROFURAN	109-99-9	0	8.3615E-12	0	1.0536E-12
THALLIUM	7440-28-0	0	0	1.5248E-10	0
TIN	7440-31-5	1.1145E-06	3.3735E-09	1.0473E-16	8.4296E-07
TOLUENE	108-88-3	0	1.5246E-10	0	1.4264E-09
TRICHLOROETHYLENE	79-01-6	0	0	8.3554E-14	0
TRICHLOROFLUOROMETHANE	75-69-4	0	8.3551E-14	2.4926E-12	1.4668E-13
ZINC	7440-66-6	6.6675E-07	2.7285E-08	2.8717E-14	1.6914E-06

Table 12 - Media Concentrations: 8,000 lbs. Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.29E-10	6.07E-16	2.34E-15	9.22E-11
1,2,4-TRIMETHYLBENZENE	95-63-6	3.20E-21	2.09E-16	2.09E-16	7.49E-15
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	4.97E-12	4.97E-12	1.20E-10
1,3-BUTADIENE	106-99-0	5.86E-21	1.76E-12	1.76E-12	3.17E-12
1,4-DIOXANE	123-91-1	0.00E+00	2.04E-11	2.04E-11	7.16E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.60E-09	9.86E-15	2.43E-14	7.69E-10
2-NITROPHENOL	88-75-5	0.00E+00	3.95E-11	3.95E-11	5.57E-11
ACENAPHTHENE	83-32-9	0.00E+00	8.28E-12	8.31E-12	1.62E-09
ACETALDEHYDE	75-07-0	0.00E+00	3.05E-09	3.05E-09	6.09E-11
ACETONE	67-64-1	0.00E+00	1.17E-09	1.17E-09	1.12E-10
ACETONITRILE	75-05-8	0.00E+00	7.07E-10	7.07E-10	1.41E-11
ACROLEIN	107-02-8	0.00E+00	1.96E-10	1.96E-10	1.09E-11
ACRYLONITRILE	107-13-1	0.00E+00	2.44E-09	2.44E-09	8.29E-10
ALUMINUM	7429-90-5	1.07E-04	5.36E-08	5.44E-08	8.04E-05
AMMONIA	7664-41-7	6.15E-17	2.84E-07	2.84E-07	1.91E-08
ANTHRACENE	120-12-7	0.00E+00	7.96E-12	8.10E-12	7.48E-09
ANTIMONY	7440-36-0	0.00E+00	5.94E-13	5.95E-13	2.67E-11

Table 12 - Media Concentrations: 8,000 lbs. Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
ARSENIC	7440-38-2	5.56E-08	1.48E-07	1.48E-07	4.29E-06
BARIUM	7440-39-3	1.85E-08	4.51E-08	4.51E-08	1.85E-06
BENZ(A)ANTHRACENE	56-55-3	1.18E-04	2.04E-09	2.31E-09	1.44E-05
BENZENE	71-43-2	0.00E+00	3.54E-10	3.54E-10	2.06E-09
BENZO(A)PYRENE	50-32-8	2.26E-04	4.24E-09	6.10E-09	9.95E-05
BENZO(B)FLUORANTHENE	205-99-2	7.16E-06	1.24E-10	1.79E-10	2.96E-06
BENZO(K)FLUORANTHENE	207-08-9	4.10E-04	2.21E-09	3.18E-09	5.19E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.19E-06	2.30E-09	2.32E-09	1.82E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	3.41E-04	1.77E-07	1.91E-07	7.84E-04
BUTYLBENZYLPHTHALATE	85-68-7	1.20E-06	2.26E-09	2.27E-09	6.47E-07
CADMIUM	7440-43-9	3.41E-07	1.42E-08	1.42E-08	1.07E-06
CARBON TETRACHLORIDE	56-23-5	0.00E+00	2.54E-13	2.54E-13	4.46E-13
CHLOROETHANE	75-00-3	0.00E+00	1.40E-12	1.40E-12	1.22E-12
CHLOROFORM	67-66-3	0.00E+00	3.82E-13	3.82E-13	4.86E-13
CHROMIUM	7440-47-3	4.99E-03	1.68E-09	3.19E-08	3.02E-03
CHRYSENE	218-01-9	9.00E-05	1.10E-09	1.25E-09	7.93E-06

Table 12 - Media Concentrations: 8,000 lbs. Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
COPPER	7440-50-8	3.06E-04	2.22E-05	2.22E-05	7.76E-04
CROTONALDEHYDE	123-73-9	4.96E-17	1.99E-10	1.99E-10	3.10E-11
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	1.97E-12	1.97E-12	7.31E-11
CYANIDE	57-12-5	0.00E+00	6.32E-09	6.32E-09	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	3.94E-05	2.86E-10	6.70E-10	2.05E-05
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	1.30E-13	1.30E-13	2.29E-13
DIETHYL PHTHALATE	84-66-2	0.00E+00	8.71E-11	8.72E-11	2.86E-10
DIMETHYL PHTHALATE	131-11-3	0.00E+00	8.74E-11	8.74E-11	9.26E-10
DI-N-BUTYL PHTHALATE	84-74-2	4.08E-06	4.09E-09	4.09E-09	2.56E-07
DI-N-OCTYL PHTHALATE	117-84-0	1.37E-04	5.77E-08	6.38E-08	3.25E-04
ETHYL ACRYLATE	140-88-5	2.49E-20	1.39E-13	1.39E-13	1.10E-13
ETHYLBENZENE	100-41-4	0.00E+00	1.61E-11	1.61E-11	2.87E-10
FLUORANTHENE	206-44-0	5.04E-06	1.71E-10	1.78E-10	3.36E-07
FORMALDEHYDE	50-00-0	0.00E+00	3.61E-08	3.61E-08	1.45E-09
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	8.41E-18	5.73E-14	5.73E-14	3.01E-13
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	5.06E-15	5.06E-15	9.61E-14
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	1.76E-18	1.76E-18	1.76E-117

Table 12 - Media Concentrations: 8,000 lbs. Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
HYDROGEN CYANIDE	74-90-8	2.24E-13	7.22E-08	7.22E-08	1.64E-09
HYDROGEN FLOURIDE	7664-39-3	3.97E-18	1.03E-09	1.03E-09	6.95E-11
INDENO(1,2,3-CD)PYRENE	193-39-5	4.76E-04	4.17E-09	1.03E-08	3.25E-04
LEAD	7439-92-1	2.60E-02	7.29E-05	7.36E-05	6.57E-02
MANGANESE	7439-96-5	6.44E-09	2.44E-09	2.44E-09	1.59E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	5.88E-12	5.88E-12	3.11E-12
METHYL ETHYL KETONE	78-93-3	0.00E+00	2.44E-10	2.44E-10	4.40E-11
METHYL ISOBUTYL KETONE	108-10-1	0.00E+00	2.66E-11	2.66E-11	1.28E-11
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	0.00E+00	2.49E-10	2.49E-10	2.17E-10
METHYLNAPHTHALENE, 2-	91-57-6	5.30E-09	1.82E-11	1.83E-11	1.81E-09
MOLYBDENUM	7439-98-7	1.66E-07	6.27E-09	6.27E-09	1.25E-07

Table 12 - Media Concentrations: 8,000 lbs. Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
M-XYLENE	108-38-3	0.00E+00	3.48E-11	3.48E-11	5.22E-10
NAPHTHALENE	91-20-3	0.00E+00	1.40E-09	1.40E-09	8.63E-08
O-XYLENE	95-47-6	0.00E+00	1.87E-11	1.87E-11	2.87E-10
PHENANTHRENE	85-01-8	0.00E+00	6.18E-11	6.30E-11	6.56E-08
PHENOL	108-95-2	0.00E+00	3.61E-10	3.61E-10	2.70E-09
PHOSPHOROUS	7723-14-0	1.32E-14	1.45E-11	1.45E-11	1.91E-10
PROPIONALDEHYDE	123-38-6	1.34E-18	2.03E-10	2.03E-10	3.08E-11
P-XYLENE	106-42-3	0.00E+00	3.61E-11	3.61E-11	5.42E-10
PYRENE	129-00-0	4.03E-05	3.61E-10	3.75E-10	7.84E-07
PYRIDINE	110-86-1	0.00E+00	2.87E-11	2.87E-11	8.24E-11
SILVER	7440-22-4	7.46E-10	9.01E-09	9.01E-09	7.47E-08
STRONTIUM	7440-24-6	1.89E-07	1.09E-08	1.09E-08	3.82E-07
STYRENE	100-42-5	0.00E+00	1.08E-10	1.08E-10	1.93E-09
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	2.19E-13	2.19E-13	8.33E-13
TETRAHYDROFURAN	109-99-9	0.00E+00	1.67E-11	1.67E-11	2.10E-12
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 12 - Media Concentrations: 8,000 lbs. Propoellant Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
TIN	7440-31-5	2.23E-06	6.73E-09	6.75E-09	1.68E-06
TOLUENE	108-88-3	0.00E+00	3.04E-10	3.04E-10	2.84E-09
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	1.67E-13	1.67E-13	2.93E-13
ZINC	7440-66-6	1.34E-06	5.44E-08	5.45E-08	3.37E-06

Table 13 - Media Concentrations: Skid Burn Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	0.00E+00	2.42E-17	9.31E-17	3.68E-12
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	1.05E-17	1.05E-17	3.78E-16
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	1.15E-12	1.15E-12	2.78E-11
1,3-BUTADIENE	106-99-0	3.91E-21	4.07E-13	4.07E-13	7.35E-13
1,4-DIOXANE	123-91-1	5.36E-05	4.74E-12	4.74E-12	1.66E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	0.00E+00	3.66E-16	9.00E-16	2.85E-11
2-NITROPHENOL	88-75-5	8.80E-10	9.16E-12	9.16E-12	1.29E-11
ACENAPHTHENE	83-32-9	0.00E+00	1.92E-12	1.93E-12	3.76E-10
ACETALDEHYDE	75-07-0	0.00E+00	7.06E-10	7.06E-10	1.41E-11
ACETONE	67-64-1	0.00E+00	2.70E-10	2.70E-10	2.59E-11
ACETONITRILE	75-05-8	0.00E+00	1.64E-10	1.64E-10	3.28E-12
ACROLEIN	107-02-8	0.00E+00	4.55E-11	4.55E-11	2.53E-12
ACRYLONITRILE	107-13-1	0.00E+00	5.66E-10	5.66E-10	1.92E-10
ALUMINUM	7429-90-5	9.21E-22	1.26E-09	1.28E-09	1.89E-06
AMMONIA	7664-41-7	7.79E-18	6.58E-08	6.58E-08	4.43E-09
ANTHRACENE	120-12-7	8.73E-09	1.85E-12	1.89E-12	1.74E-09
ANTIMONY	7440-36-0	2.90E-09	1.38E-13	1.38E-13	6.20E-12
ARSENIC	7440-38-2	0.00E+00	3.45E-09	3.45E-09	1.00E-07
BARIUM	7440-39-3	1.85E-05	1.05E-09	1.05E-09	4.32E-08
BENZ(A)ANTHRACENE	56-55-3	1.12E-06	5.27E-11	5.96E-11	3.73E-07

Table 13 - Media Concentrations: Skid Burn Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
BENZENE	71-43-2	3.56E-05	8.21E-11	8.21E-11	4.79E-10
BENZO(A)PYRENE	50-32-8	6.44E-05	1.14E-10	1.64E-10	2.67E-06
BENZO(B)FLUORANTHENE	205-99-2	0.00E+00	5.00E-12	7.25E-12	1.20E-07
BENZO(K)FLUORANTHENE	207-08-9	1.87E-07	6.54E-11	9.42E-11	1.54E-06
BENZYL CHLORIDE	100-44-7	1.89E-07	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	5.35E-08	5.38E-11	5.42E-11	4.25E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	0.00E+00	4.23E-09	4.58E-09	1.88E-05
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	7.01E-11	7.05E-11	2.01E-08
CADMIUM	7440-43-9	0.00E+00	3.32E-10	3.32E-10	2.49E-08
CARBON TETRACHLORIDE	56-23-5	0.00E+00	5.90E-14	5.90E-14	1.04E-13
CHLOROETHANE	75-00-3	7.83E-04	3.26E-13	3.26E-13	2.83E-13
CHLOROFORM	67-66-3	0.00E+00	8.86E-14	8.86E-14	1.13E-13
CHROMIUM	7440-47-3	1.41E-05	1.28E-10	2.43E-09	2.30E-04
CHRYSENE	218-01-9	0.00E+00	2.99E-11	3.40E-11	2.16E-07
COPPER	7440-50-8	1.68E-05	5.18E-07	5.18E-07	1.81E-05
CROTONALDEHYDE	123-73-9	3.52E-14	4.63E-11	4.63E-11	7.20E-12
CUMENE (ISOPROPYLBENZENE)	98-82-8	6.40E-07	4.56E-13	4.56E-13	1.70E-11
CYANIDE	57-12-5	2.16E-05	1.47E-09	1.47E-09	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	0.00E+00	8.69E-12	2.03E-11	6.22E-07
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	3.02E-14	3.02E-14	5.30E-14

Table 13 - Media Concentrations: Skid Burn Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
DIETHYL PHTHALATE	84-66-2	0.00E+00	2.02E-11	2.02E-11	6.63E-11
DIMETHYL PHTHALATE	131-11-3	0.00E+00	2.03E-11	2.03E-11	2.15E-10
DI-N-BUTYL PHTHALATE	84-74-2	6.19E-06	2.76E-10	2.77E-10	1.73E-08
DI-N-OCTYL PHTHALATE	117-84-0	0.00E+00	1.53E-09	1.69E-09	8.61E-06
ETHYL ACRYLATE	140-88-5	6.23E-19	3.22E-14	3.22E-14	2.56E-14
ETHYLBENZENE	100-41-4	7.92E-07	3.73E-12	3.73E-12	6.66E-11
FLUORANTHENE	206-44-0	0.00E+00	1.00E-11	1.04E-11	1.97E-08
FORMALDEHYDE	50-00-0	0.00E+00	8.38E-09	8.38E-09	3.35E-10
HEXACHLOROBENZENE	118-74-1	7.48E-05	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	4.81E-05	1.30E-14	1.30E-14	6.86E-14
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	1.17E-15	1.17E-15	2.23E-14
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	4.08E-19	4.08E-19	4.08E-118
HYDROGEN CYANIDE	74-90-8	2.61E-08	1.67E-08	1.67E-08	3.80E-10
HYDROGEN FLOURIDE	7664-39-3	2.07E-15	2.39E-10	2.39E-10	1.61E-11
INDENO(1,2,3-CD)PYRENE	193-39-5	0.00E+00	1.26E-10	3.09E-10	9.80E-06
LEAD	7439-92-1	0.00E+00	1.71E-06	1.72E-06	1.54E-03
MANGANESE	7439-96-5	9.66E-18	5.70E-11	5.71E-11	3.71E-09
MERCURIC CHLORIDE	7487-94-7	4.09E-03	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 13 - Media Concentrations: Skid Burn Scenario					
COPC	CAS	Soil (mg/kg)	Dissolved Water (ug/L)	Total Water Column (ug/L)	Sediment (mg/kg)
METHYL CHLORIDE	74-87-3	0.00E+00	1.36E-12	1.36E-12	7.21E-13
METHYL ETHYL KETONE	78-93-3	0.00E+00	5.65E-11	5.65E-11	1.02E-11
METHYL ISOBUTYL KETONE	108-10-1	0.00E+00	6.16E-12	6.16E-12	2.96E-12
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	0.00E+00	5.78E-11	5.78E-11	5.03E-11
METHYLNAPHTHALENE, 2-	91-57-6	1.01E-09	4.14E-12	4.15E-12	4.11E-10
MOLYBDENUM	7439-98-7	2.11E-19	1.46E-10	1.46E-10	2.93E-09
M-XYLENE	108-38-3	0.00E+00	8.07E-12	8.07E-12	1.21E-10
NAPHTHALENE	91-20-3	8.31E-11	3.24E-10	3.25E-10	2.00E-08
O-XYLENE	95-47-6	2.10E-07	4.34E-12	4.35E-12	6.65E-11
PHENANTHRENE	85-01-8	6.33E-06	1.44E-11	1.47E-11	1.53E-08
PHENOL	108-95-2	0.00E+00	8.38E-11	8.38E-11	6.27E-10
PHOSPHOROUS	7723-14-0	2.96E-08	3.36E-12	3.36E-12	4.42E-11
PROPIONALDEHYDE	123-38-6	9.78E-08	4.70E-11	4.70E-11	7.15E-12
P-XYLENE	106-42-3	1.32E-18	8.38E-12	8.38E-12	1.26E-10
PYRENE	129-00-0	1.17E-10	2.05E-11	2.13E-11	4.45E-08
PYRIDINE	110-86-1	0.00E+00	6.66E-12	6.66E-12	1.91E-11
SILVER	7440-22-4	0.00E+00	2.10E-10	2.10E-10	1.74E-09
STRONTIUM	7440-24-6	3.50E-07	2.55E-10	2.55E-10	8.93E-09
STYRENE	100-42-5	0.00E+00	2.51E-11	2.51E-11	4.48E-10

Table 13 - Media Concentrations: Skid Burn Scenario					
COPC	**CAS**	**Soil** (mg/kg)	**Dissolved Water** (ug/L)	**Total Water Column** (ug/L)	**Sediment** (mg/kg)
SULFURIC ACID	7664-93-9	5.02E-22	8.66E-07	8.66E-07	2.11E-07
TETRACHLOROETHYLENE	127-18-4	0.00E+00	5.09E-14	5.09E-14	1.93E-13
TETRAHYDROFURAN	109-99-9	0.00E+00	3.87E-12	3.87E-12	4.87E-13
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	1.57E-10	1.58E-10	3.93E-08
TOLUENE	108-88-3	0.00E+00	7.05E-11	7.05E-11	6.60E-10
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	3.86E-14	3.87E-14	6.79E-14
ZINC	7440-66-6	8.32E-10	1.27E-09	1.27E-09	7.88E-08

Table 14 - Media Concentrations: Skid Burn 183 Day Scenario					
COPC	CAS	Soil	Dissolved Water	Total Water Column	Sediment
		(mg/kg)	(ug/L)	(ug/L)	(mg/kg)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.65E-10	1.21E-17	4.67E-17	1.84E-12
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00E-21	5.28E-18	5.29E-18	1.90E-16
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	5.78E-13	5.78E-13	1.39E-11
1,3-BUTADIENE	106-99-0	1.83E-21	2.04E-13	2.04E-13	3.68E-13
1,4-DIOXANE	123-91-1	0.00E+00	2.38E-12	2.38E-12	8.32E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.75E-09	1.83E-16	4.51E-16	1.43E-11
2-NITROPHENOL	88-75-5	0.00E+00	4.59E-12	4.59E-12	6.47E-12
ACENAPHTHENE	83-32-9	0.00E+00	9.63E-13	9.67E-13	1.89E-10
ACETALDEHYDE	75-07-0	0.00E+00	3.54E-10	3.54E-10	7.08E-12
ACETONE	67-64-1	0.00E+00	1.35E-10	1.35E-10	1.30E-11
ACETONITRILE	75-05-8	0.00E+00	8.22E-11	8.22E-11	1.64E-12
ACROLEIN	107-02-8	0.00E+00	2.28E-11	2.28E-11	1.27E-12
ACRYLONITRILE	107-13-1	0.00E+00	2.84E-10	2.84E-10	9.64E-11
ALUMINUM	7429-90-5	3.35E-05	6.30E-10	6.40E-10	9.45E-07
AMMONIA	7664-41-7	1.92E-17	3.30E-08	3.30E-08	2.22E-09
ANTHRACENE	120-12-7	0.00E+00	9.29E-13	9.45E-13	8.73E-10
ANTIMONY	7440-36-0	0.00E+00	6.91E-14	6.91E-14	3.11E-12
ARSENIC	7440-38-2	1.74E-08	1.73E-09	1.73E-09	5.02E-08
BARIUM	7440-39-3	5.77E-09	5.28E-10	5.28E-10	2.16E-08
BENZ(A)ANTHRACENE	56-55-3	3.68E-05	2.64E-11	2.99E-11	1.87E-07
BENZENE	71-43-2	0.00E+00	4.12E-11	4.12E-11	2.40E-10

Table 14 - Media Concentrations: Skid Burn 183 Day Scenario					
COPC	CAS	Soil	Dissolved Water	Total Water Column	Sediment
		(mg/kg)	(ug/L)	(ug/L)	(mg/kg)
BENZO(A)PYRENE	50-32-8	7.08E-05	5.70E-11	8.21E-11	1.34E-06
BENZO(B)FLUORANTHENE	205-99-2	2.24E-06	2.51E-12	3.63E-12	6.01E-08
BENZO(K)FLUORANTHENE	207-08-9	1.28E-04	3.28E-11	4.72E-11	7.70E-07
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	3.73E-07	2.70E-11	2.72E-11	2.13E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.07E-04	2.12E-09	2.30E-09	9.41E-06
BUTYLBENZYLPHTHALATE	85-68-7	3.76E-07	3.51E-11	3.53E-11	1.01E-08
CADMIUM	7440-43-9	1.07E-07	1.66E-10	1.66E-10	1.25E-08
CARBON TETRACHLORIDE	56-23-5	0.00E+00	2.96E-14	2.96E-14	5.19E-14
CHLOROETHANE	75-00-3	0.00E+00	1.63E-13	1.63E-13	1.42E-13
CHLOROFORM	67-66-3	0.00E+00	4.44E-14	4.44E-14	5.65E-14
CHROMIUM	7440-47-3	1.56E-03	6.40E-11	1.22E-09	1.15E-04
CHRYSENE	218-01-9	2.81E-05	1.50E-11	1.70E-11	1.08E-07
COPPER	7440-50-8	9.57E-05	2.60E-07	2.60E-07	9.09E-06
CROTONALDEHYDE	123-73-9	1.55E-17	2.32E-11	2.32E-11	3.61E-12
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	2.29E-13	2.29E-13	8.51E-12
CYANIDE	57-12-5	0.00E+00	7.35E-10	7.35E-10	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	1.23E-05	4.36E-12	1.02E-11	3.12E-07
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	1.51E-14	1.52E-14	2.66E-14
DIETHYL PHTHALATE	84-66-2	0.00E+00	1.01E-11	1.01E-11	3.32E-11
DIMETHYL PHTHALATE	131-11-3	0.00E+00	1.02E-11	1.02E-11	1.08E-10

Table 14 - Media Concentrations: Skid Burn 183 Day Scenario					
COPC	CAS	Soil	Dissolved Water	Total Water Column	Sediment
		(mg/kg)	(ug/L)	(ug/L)	(mg/kg)
DI-N-BUTYL PHTHALATE	84-74-2	1.27E-06	1.39E-10	1.39E-10	8.69E-09
DI-N-OCTYL PHTHALATE	117-84-0	4.29E-05	7.67E-10	8.48E-10	4.32E-06
ETHYL ACRYLATE	140-88-5	7.79E-21	1.62E-14	1.62E-14	1.28E-14
ETHYLBENZENE	100-41-4	0.00E+00	1.87E-12	1.87E-12	3.34E-11
FLUORANTHENE	206-44-0	1.58E-06	5.02E-12	5.21E-12	9.86E-09
FORMALDEHYDE	50-00-0	0.00E+00	4.20E-09	4.20E-09	1.68E-10
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	2.63E-18	6.54E-15	6.54E-15	3.44E-14
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	5.88E-16	5.88E-16	1.12E-14
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	2.05E-19	2.05E-19	2.05E-118
HYDROGEN CYANIDE	74-90-8	7.01E-14	8.39E-09	8.39E-09	1.91E-10
HYDROGEN FLOURIDE	7664-39-3	1.24E-18	1.20E-10	1.20E-10	8.08E-12
INDENO(1,2,3-CD)PYRENE	193-39-5	1.49E-04	6.29E-11	1.55E-10	4.91E-06
LEAD	7439-92-1	8.14E-03	8.56E-07	8.63E-07	7.70E-04
MANGANESE	7439-96-5	2.01E-09	2.86E-11	2.86E-11	1.86E-09
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	6.84E-13	6.84E-13	3.62E-13
METHYL ETHYL KETONE	78-93-3	0.00E+00	2.83E-11	2.83E-11	5.11E-12
METHYL ISOBUTYL KETONE	108-10-1	0.00E+00	3.09E-12	3.09E-12	1.48E-12

Table 14 - Media Concentrations: Skid Burn 183 Day Scenario					
COPC	CAS	Soil	Dissolved Water	Total Water Column	Sediment
		(mg/kg)	(ug/L)	(ug/L)	(mg/kg)
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	0.00E+00	2.90E-11	2.90E-11	2.52E-11
METHYLNAPHTHALENE, 2-	91-57-6	1.66E-09	2.08E-12	2.08E-12	2.06E-10
MOLYBDENUM	7439-98-7	5.20E-08	7.34E-11	7.34E-11	1.47E-09
M-XYLENE	108-38-3	0.00E+00	4.04E-12	4.05E-12	6.07E-11
NAPHTHALENE	91-20-3	0.00E+00	1.63E-10	1.63E-10	1.00E-08
O-XYLENE	95-47-6	0.00E+00	2.18E-12	2.18E-12	3.34E-11
PHENANTHRENE	85-01-8	0.00E+00	7.22E-12	7.36E-12	7.66E-09
PHENOL	108-95-2	0.00E+00	4.20E-11	4.20E-11	3.14E-10
PHOSPHOROUS	7723-14-0	4.12E-15	1.68E-12	1.68E-12	2.22E-11
PROPIONALDEHYDE	123-38-6	4.20E-19	2.36E-11	2.36E-11	3.59E-12
P-XYLENE	106-42-3	0.00E+00	4.20E-12	4.20E-12	6.31E-11
PYRENE	129-00-0	1.26E-05	1.03E-11	1.07E-11	2.23E-08
PYRIDINE	110-86-1	0.00E+00	3.34E-12	3.34E-12	9.58E-12
SILVER	7440-22-4	2.33E-10	1.05E-10	1.05E-10	8.75E-10
STRONTIUM	7440-24-6	5.90E-08	1.28E-10	1.28E-10	4.48E-09
STYRENE	100-42-5	0.00E+00	1.26E-11	1.26E-11	2.25E-10
SULFURIC ACID	7664-93-9	0.00E+00	4.34E-07	4.34E-07	1.06E-07
TETRACHLOROETHYLENE	127-18-4	0.00E+00	2.55E-14	2.55E-14	9.69E-14
TETRAHYDROFURAN	109-99-9	0.00E+00	1.94E-12	1.94E-12	2.44E-13
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 14 - Media Concentrations: Skid Burn 183 Day Scenario					
COPC	CAS	Soil	Dissolved Water	Total Water Column	Sediment
		(mg/kg)	(ug/L)	(ug/L)	(mg/kg)
TIN	7440-31-5	6.98E-07	7.88E-11	7.90E-11	1.97E-08
TOLUENE	108-88-3	0.00E+00	3.54E-11	3.54E-11	3.31E-10
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	1.94E-14	1.94E-14	3.40E-14
ZINC	7440-66-6	4.17E-07	6.37E-10	6.37E-10	3.95E-08

Table 15 - Scenario Specific Constants										
Scenario	mg/g	Dydp	Rp	Dywp	kp	Tp	DWtoWW	Yp	Cyv	Rhoa
Propellant 183 Day	1000	0.004295028	0.5	0	18	0.12	0.12	0.24	0.006566995	1200
Propellant 8,000	1000	0.0086	0.5	0	18	0.12	0.12	0.24	0.013	1200
Skid Burn	1000	0.0054	0.5	0	18	0.12	0.12	0.24	0.03	1200
Skid Burn 183 Day	1000	0.002688547	0.5	0	18	0.12	0.12	0.24	0.014865616	1200

Table 16 - Receptor Specific Information: Terrestrial Receptors					
Receptor	Body Weight	Food Ingestion Rate	Water Ingestion Rate	Sediment Ingestion Rate	Fraction of Diet In Food (unitless)

	kg	kg/day	L/day	kg/day	**Herbivorous Mammal Fraction**	**Herbivorous Bird Fraction**	**Aquatic Vegegation Fraction**	**Benthic Invertebrate Fraction**	**Omnivorous Bird Fraction**	**Insectivorous Bird Fraction**	**Carnivorous Fish Fraction**
Short-tailed Shrew	0.015	0.00062	0.000223	0.001488	0	0	0.054	0.705	0	0	0
Red Fox	4.13	0.00014	0.000086	0.000392	0.814	0	0.07	0.028	0.048	0.048	0
Meadow Vole	0.039	0.0003	0.00021	0.00072	0	0	0.95	0.04	0	0	0
Raccoon	6.4	0.054	0.000083	0.5076	0.09	0	0.34	0.52	0	0	0
Mallard Duck	1.043	0.053	0.000058	0.4346	0	0	0.922	0.01	0	0	0
Canada Goose	2.769	0.000033	0.000053	0	0	0	0.992	0.007	0	0	0
Great Blue Heron	2.34	0.00018	0.000045	0	0	0	0	0	0	0	1

Table 17 - Receptor Specific Information: Terrestrial Receptors										
Receptor	**Body Weight**	**Food Ingestion Rate**	**Water Ingestion Rate**	**Soil Ingestion Rate**	**Fraction of Diet In Food (unitless)**					
	kg	kg/day	L/day	kg/day	**Terrestrial Plant Fraction**	**Herbivorous Mammal Fraction**	**Herbivorous Bird Fraction**	**Soil Invertebrate Fraction**	**Omnivorous Bird Fraction**	**Insectivorous Bird Fraction**
American Robin	0.08	0.00152	0.00014	0	0.293	0	0	0.717	0	0
Northern Bobwhite	0.1899	0.000072	0.00013	0	0.97	0	0	0.027	0	0
Red-tailed Hawk	1.224	0.00011	0.00059	0	0	0.686	0.273	0	0	0.041
American Woodcock	0.218	0.00077	0.0001	0.008008	0	0	0	1	0	0
Short-tailed Shrew	0.015	0.00062	0.000223	0.001488	0.054	0	0	0.705	0	0
Red Fox	4.13	0.00014	0.000086	0.000392	0.07	0.814	0	0.028	0.048	0.048
Meadow Vole	0.039	0.0003	0.00021	0.00072	0.95	0	0	0.04	0	0
Raccoon	6.4	0.054	0.000083	0.5076	0.34	0.09	0	0.52	0	0

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
1,2,3,7,8-PeCDF	57117-41-6		TEF TCDD		TEF TCDD		TEF TCDD		TEF TCDD		TEF TCDD		TEF TCDD
1,2,4-Trimethylbenzene	95-63-6	33	2		NA		NA		NA		NA		NA
1,3,5-Trimethylbenzene	108-67-8	71	2		NA		NA		NA		NA		NA
1,3-Butadiene	106-99-0		NA		NA		NA		NA		NA		NA
1,4-Dioxane	123-91-1	22000	5	119	5		NA		NA	0.14	4		NA
2,3,4,7,8-PeCDF	57117-31-4		TEF TCDD		TEF TCDD		TEF TCDD		TEF TCDD		TEF TCDD		TEF TCDD
2,3,7,8-TCDD	1746-01-6	3.1E-09	2	0.00000085	2		NA		NA	0.0000003	4	0.000014	4
2-Butanone	78-93-3	14000	2		NA		NA		NA	497	4		NA
2-Methylnaphthalene	91-57-6	4.7	2	0.02	2		NA		NA		NA		NA
2-Nitrophenol	88-75-5	1920	2		NA		NA		NA		NA		NA
4-Methyl-2-pentanone	108-10-1	170	2	25.1	5		NA		NA	7	4		NA

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
Acenaphthene	83-32-9	5.8	2	0.01	2		NA		NA		NA		NA
Acetaldehyde	75-07-0		NA		NA		NA		NA		NA		NA
Acetone	67-64-1	1500	2		NA		NA		NA	2.8	2		NA
Acetonitrile	75-05-8	12000	2		NA		NA		NA		NA		NA
Acrolein	107-02-8	0.01	3	0.00152	5		NA		NA		NA		NA
Acrylonitrile	107-13-1	160	3	1.2	5		NA		NA		NA		NA
Aluminum	7429-90-5	87	2		NA	50	3		NA	0.293	4	109.7	4
Ammonia	7664-41-7	19	2		NA		NA		NA		NA		NA
Anthracene	120-12-7	0.012	2	0.0572	2		NA		NA		NA		NA
Antimony	7440-36-0	30	2	2	2	5	3	0.78	3	0.019	4		NA
Arsenic	7440-38-2	5	2	9.8	2	18	3		NA	0.019	4	2.5	4
Barium	7440-39-3	4	2		NA	500	3	330	3	1.5	4	20.8	4

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
Benzene	71-43-2	370	2	10	3		NA		NA	4	4		NA
Benzo(a)anthracene	56-55-3	0.018	2	0.108	2		NA		NA		NA		NA
Benzo(a)pyrene	50-32-8	0.015	2	0.15	2		NA		NA	0.15	4		NA
Benzo(b)fluoranthene	205-99-2	9.07	3	0.0272	2		NA		NA		NA		NA
Benzo(k)fluoranthene	207-08-9		NA	0.24	2		NA		NA		NA		NA
Benzyl chloride	100-44-7		NA		NA		NA		NA		NA		NA
Beryllium	7440-41-7	0.66	2		NA	10	3	40	3	0.19	4		NA
Bis-2-Ethylhexyl phthalate	117-81-7	16	2	0.18	2		NA		NA	2.5	4	1.1	
Butyl benzyl phthalate	85-68-7	19	2	10.9	2		NA		NA		NA		NA
Cadmium	7440-43-9	0.25	2	0.99	2	4	3	0.2	3	0.271	5	1.45	4
Carbon tetrachloride	56-23-5	13.3	2	0.0642	2		NA		NA	4.5	4		NA
Chloroethane	75-00-3		NA		NA		NA		NA		NA		NA

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
Chloroform	67-66-3	1.8	2	121	5		NA		NA	4.2	4		NA
Chloromethane	74-87-3		NA		NA		NA		NA		NA		NA
Chromium	7440-47-3	85	2	43.4	1	1	3	0.4	3	768	4	1	4
Chrysene	218-01-9		NA	0.166	2		NA		NA		NA		NA
Copper	7440-50-8	9	2	31.6	2	70	3	50	3	4.3	4	47	4
Crotonaldehyde	123-73-9		NA		NA		NA		NA		NA		NA
Cumene	98-82-8	2.6	2	0.09	2		NA		NA		NA		NA
Cyanide	57-12-5	5	2	0.1	2		NA		NA	18.1	4		NA
Dibenz(a,h)anthracene	53-70-3		NA	0.033	2		NA		NA		NA		NA
Dibutyl phthalate	84-74-2	19	2	6.47	2		NA		NA	83	4		
Dichlorodifluoromethane	75-71-8		NA		NA		NA		NA		NA		NA
Diethyl phthalate	84-66-2	210	2	0.6	2		NA		NA	696	4		NA

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
Dimethyl phthalate	131-11-3	3	3		NA		NA	200	3	3500	6		NA
Dioctyl phthalate	117-84-0	22	2	40600	5		NA		NA	9780	6		NA
Ethyl acrylate	140-88-5		NA		NA		NA		NA		NA		NA
Ethylbenzene	100-41-4	90	2	1.1	2		NA		NA		NA		NA
Fluoranthene	206-44-0	0.04	2	0.423	2		NA	47	6		NA		NA
Formaldehyde	50-00-0		NA		NA		NA		NA	6.4	4		NA
Hexachlorobenzene	118-74-1	0.0003	2	0.02	2		NA		NA		NA		NA
Hexavalent chromium	18540-29-9	11	2	43.4	2	1	3	0.4	3	0.92	4		NA
Hydrogen chloride	7647-01-0		NA		NA		NA		NA		NA		NA
Hydrogen cyanide	74-90-8		NA		NA		NA		NA		NA		NA
Hydrogen fluoride	7664-39-3		NA		NA		NA		NA		NA		NA
Indeno(1,2,3-cd)pyrene	193-39-5	4.31	3	0.017	2		NA		NA		NA		NA

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
Lead	7439-92-1	2.5	2	35.8	2	50	3	500	3	2.24	4	1.13	4
Manganese	7439-96-5	120	2	460	2	220	3	450	3	25	4	997	4
MERCURIC CHLORIDE	7487-94-7												
MERCURY	7439-97-6												
Methyl bromide	74-83-9	16	3	1.37	5		NA		NA		NA		NA
METHYL MERCURY	22967-92-6												
Methylene chloride	75-09-2	98.1	2		NA		NA		NA	1.6	4		NA
Molybdenum	7439-98-7	73	2		NA	2	3		NA	0.04	4	3.5	4
m-Xylenes	108-38-3	1.8	2	0.0252	2	10	3		NA		NA		NA
Naphthalene	91-20-3	1.1	2	0.18	2		NA		NA	2.5	6		6
n-Hexane	110-54-3	0.58	2	0.0396	2		NA		NA		NA		NA
o-Xylene	95-47-6	350	3		NA		NA		NA		NA		NA

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
Phenanthrene	85-01-8	0.4	2	0.2	2		NA	21	6		NA		NA
Phenol	108-95-2	4	2	0.42	2	70	3	30	3		NA		NA
Phosphorous	7723-14-0		NA		NA		NA		NA		NA		NA
Propionaldehyde	123-38-6		NA		NA		NA		NA		NA		NA
p-Xylenes	106-42-3	1.8	2	0.0252	2	10	3		NA		NA		NA
Pyrene	129-00-0	0.025	2	0.195	2		NA	13	6		NA		NA
Pyridine	110-86-1	2380	2	106	5		NA		NA		NA		NA
Silver	7440-22-4	3.2	2	1	2	2	3		NA	14	5	4.2	5
Strontium	7440-24-6	1500	2		NA		NA		NA	74	4		NA
Styrene	100-42-5	72	2	0.559	2	300	3		NA		NA		NA
Sulfuric acid	7664-93-9		NA		NA		NA		NA		NA		NA
Tetrachloroethene	127-18-4	111	2	0.468	2		NA		NA		NA		NA

Table 18 - Chemical Toxicity Reference Values													
COPC	**CAS**	**Fresh water**	**Reference**	**Benthic Invertebrates**	**Reference**	**Plant**	**Reference**	**Invertebrates**	**Reference**	**Mammal**	**Reference**	**Bird**	**Reference**
Tetrahydrofuran	109-99-9		NA		NA		NA		NA		NA		NA
Thallium	7440-28-0	0.8	2		NA	1	3		NA	0.002	4		NA
Tin	7440-31-5	73	2		NA	50	3		NA	3.6	4	6.8	4
Toluene	108-88-3	2	2	1220	5	200	3		NA	3.9	4		NA
Trichloroethylene	79-01-6	21	2	0.1	2		NA		NA	0.106	4		NA
Trichlorofluoromethane	75-69-4	11000	3		NA		NA		NA		NA		NA
Zinc	7440-66-6	120	2	121	2	50	3	6.62	5	44.9	4	14.5	4

Key:

NA: No Value Available

TEF TCDD: Dioxin, See Appendix B

1: EPA R3 BTAG

2: NOAA SQuiRTs

3: EPA ECOSSL

4: EPA ECOTOX Database

5: EPA Region 5 Ecological Screening Values

Table 19 - Ecological Community Exposure Pathways				
HABITAT	**ASSESSMENT ENDPOINT**	**TROPHIC LEVEL**	**MEASUREMENT RECEPTOR**	**EXPOSURE PATHWAY**
Prairie/Forest	Terrestrial Plants	1	Community	Direct contact with soil
	Insects and Other Herbivorous Invertebrates	2		
Freshwater	Aquatic and Terrestrial Vegetation	1	Community	Direct contact with water and sediment
	Phytoplankton			
	Benthic Invertebrates	2		
	Insects and Water Invertebrates			
	Fish	1-4		
From Coterie Environmental, 2019.				

Table 20 - Guild Receptor Exposure Endpoints				
HABITAT	**ASSESSMENT ENDPOINT**	**TROPHIC LEVEL**	**MEASUREMENT RECEPTOR**	**EXPOSURE PATHWAY**
Prairie/Forest	Herbivorous birds	2	Northern bobwhite	Soil Drinking Water Terrestrial Plants
	Herbivorous mammals		Meadow vole	
	Insectivorous birds	3	American woodcock	Soil Drinking Water Invertebrates (TL2)
	Insectivorous mammals		Short-tailed shrew	
	Insectivorous amphibians/reptiles		Green frog	Invertebrates (TL2)
	Omnivorous birds		American robin	Soil Drinking Water Terrestrial Plants Invertebrates (TL2)

Table 20 - Guild Receptor Exposure Endpoints				
HABITAT	**ASSESSMENT ENDPOINT**	**TROPHIC LEVEL**	**MEASUREMENT RECEPTOR**	**EXPOSURE PATHWAY**
Prairie/Forest	Omnivorous reptiles	3	Painted turtle	Soil Drinking Water Terrestrial Plants Invertebrates (TL2)
	Omnivorous mammals		Raccoon	Soil Drinking Water Terrestrial Plants Invertebrates (TL2) Herbivorous mammals (TL2) Insectivorous amphibians/reptiles (TL3) Omnivorous reptiles (TL3)
	Carnivorous birds	4	Red-tailed hawk	Soil Drinking Water Herbivorous mammals (TL2) Insectivorous birds (TL3) Insectivorous mammals (TL3) Omnivorous birds (TL3) Carnivorous reptiles (TL4)
	Carnivorous reptiles		Northern water snake	Herbivorous mammals (TL2) Herbivorous birds (TL2) Insectivorous birds (TL3) Insectivorous amphibians/reptiles (TL3)

Table 20 - Guild Receptor Exposure Endpoints				
HABITAT	**ASSESSMENT ENDPOINT**	**TROPHIC LEVEL**	**MEASUREMENT RECEPTOR**	**EXPOSURE PATHWAY**
				Insectivorous mammals (TL3)
	Carnivorous mammals		Red Foxes	Soil Drinking Water Herbivorous mammals (TL2) Herbivorous birds (TL2) Insectivorous birds (TL3) Insectivorous mammals (TL3) Omnivorous birds (TL3)
Freshwater	Herbivorous birds	2	Canada goose	Soil Drinking Water Terrestrial Plants
	Herbivorous mammals		Meadow vole	
	Insectivorous birds	3	American woodcock	Soil Drinking Water Invertebrates (TL2)
	Insectivorous mammals		Short-tailed shrew	
	Omnivorous birds		Mallard	
	Insectivorous amphibians/reptiles		Green frog	Invertebrates (TL2)
	Omnivorous reptiles		Painted turtle	SoilDrinking WaterTerrestrial PlantsInvertebrates (TL2)

Table 20 - Guild Receptor Exposure Endpoints				
HABITAT	**ASSESSMENT ENDPOINT**	**TROPHIC LEVEL**	**MEASUREMENT RECEPTOR**	**EXPOSURE PATHWAY**
Freshwater	Omnivorous mammals	3	Raccoon	SoilDrinking WaterTerrestrial PlantsInvertebrates (TL2)Herbivorous mammals (TL2)Herbivorous fish (TL2)Insectivorous amphibians/reptiles (TL3)Omnivorous reptiles (TL3)Insectivorous fish (TL3)Omnivorous fish (TL3)
	Carnivorous shore birds	4	Great blue heron	Soil Drinking Water Herbivorous fish (TL2) Insectivorous fish (TL3) Omnivorous fish (TL3) Insectivorous amphibians/reptiles (TL3) Carnivorous fish (TL4)

Table 20 - Guild Receptor Exposure Endpoints				
HABITAT	**ASSESSMENT ENDPOINT**	**TROPHIC LEVEL**	**MEASUREMENT RECEPTOR**	**EXPOSURE PATHWAY**
	Carnivorous reptiles	4	Northern water snake	Herbivorous mammals (TL2) Herbivorous birds (TL2) Herbivorous fish (TL2) Insectivorous fish (TL3) Omnivorous fish (TL3) Insectivorous birds (TL3) Insectivorous amphibians/reptiles (TL3) Insectivorous mammals (TL3)
	Carnivorous mammals	4	Red Foxes	Soil Drinking Water Herbivorous mammals (TL2) Herbivorous birds (TL2) Insectivorous birds (TL3) Insectivorous mammals (TL3) Omnivorous birds (TL3)
From Coterie Environmental, 2019.				

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.55E-14	2.21E-13	1.78E-07	1.04E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	1.98E-11	4.10E-13	1.43E-14	4.10E-13

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	0.00E+00	2.61E-11	1.03E-09	1.23E-11
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	2.97E-09	2.92E-11	2.97E-11	2.92E-11
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	1.15E-08	1.34E-10	4.57E-11	1.34E-10

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
ALUMINUM	7429-90-5	0.00E+00	2.24E-05	4.03E-07	1.09E-04
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	2.68E-12	4.39E-10	0.00E+00	2.09E-12
ARSENIC	7440-38-2	8.60E-08	2.17E-05	1.94E-06	5.41E-06
BARIUM	7440-39-3	1.48E-07	5.88E-06	1.85E-08	4.52E-06
BENZ(A)ANTHRACENE	56-55-3	1.44E-07	5.37E-06	1.03E-05	1.26E-05
BENZENE	71-43-2	2.32E-09	6.66E-10	4.66E-10	6.66E-10
BENZO(A)PYRENE	50-32-8	4.94E-07	1.12E-05	3.46E-06	9.98E-06
BENZO(B)FLUORANTHENE	205-99-2	1.48E-08	3.26E-07	2.36E-06	2.91E-07

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
BENZO(K)FLUORANTHENE	207-08-9	2.52E-07	5.82E-06	4.01E-05	1.46E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	9.10E-09	1.62E-07	8.19E-07	5.19E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.57E-05	8.80E-04	5.15E-01	2.82E-05
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	2.67E-07	5.57E-06	1.27E-06	2.47E-05
CARBON TETRACHLORIDE	56-23-5	1.97E-13	3.83E-11	2.69E-12	1.53E-12

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	7.07E-13	5.40E-13	6.87E-13	5.40E-13
CHROMIUM	7440-47-3	5.90E-05	3.70E-06	4.42E-05	2.52E-06
CHRYSENE	218-01-9	7.29E-08	2.90E-06	5.38E-06	5.40E-07
COPPER	7440-50-8	1.56E-04	6.02E-03	1.17E-04	4.13E-02
CROTONALDEHYDE	123-73-9	2.90E-10	2.00E-11	3.11E-12	2.00E-11
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	6.97E-08	0.00E+00	1.29E-05
DIBENZ(A,H)ANTHRACENE	53-70-3	6.44E-08	7.55E-07	1.62E-05	1.02E-07

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	2.18E-10	3.48E-10	1.52E-10	3.48E-10
DIMETHYL PHTHALATE	131-11-3	2.14E-09	6.40E-11	6.78E-10	6.40E-11
DI-N-BUTYL PHTHALATE	84-74-2	1.10E-08	1.04E-06	7.30E-07	1.04E-06
DI-N-OCTYL PHTHALATE	117-84-0	2.56E-08	8.24E-04	5.09E+02	1.72E-04

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	1.75E-08	2.54E-09	1.01E-10	2.54E-09
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	4.82E-16	1.78E-16	4.82E-16	1.78E-16

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	6.27E-07	1.10E-05	2.59E-04	9.82E-06
LEAD	7439-92-1	1.65E-03	6.24E-02	2.07E-02	1.85E-01
MANGANESE	7439-96-5	6.37E-09	0.00E+00	7.96E-10	4.98E-06

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	5.75E-10	1.47E-11	1.21E-11	1.47E-11
METHYL ISOBUTYL KETONE	108-10-1	4.28E-11	9.20E-12	8.44E-12	9.20E-12

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	7.88E-10	1.04E-10	5.76E-11	1.04E-10
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	1.52E-10	4.83E-10	7.24E-09	4.83E-10
NAPHTHALENE	91-20-3	5.28E-07	2.52E-08	1.82E-08	2.52E-08
O-XYLENE	95-47-6	8.34E-11	2.60E-10	3.98E-09	2.60E-10
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.58E-10	5.01E-10	7.52E-09	5.01E-10
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	3.75E-10	4.83E-05	1.27E-08	1.35E-06
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegegation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	1.43E-09	1.77E-09	1.34E-09	1.77E-09
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	1.67E-06	5.93E-05	1.07E-06	1.25E-04

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Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	0.00E+00	0.00E+00	2.49E-08	1.30E-06
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	2.97E-23	3.71E-24	1.44E-16	7.46E-15

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.55E-12	8.61E-16	8.57E-08	7.59E-09
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	4.15E-21	5.74E-22	2.97E-13	1.55E-11
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	4.57E-13	2.38E-11

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
ALUMINUM	7429-90-5	0.00E+00	0.00E+00	4.03E-09	2.10E-07
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	6.08E-16	0.00E+00	8.31E-14
ARSENIC	7440-38-2	0.00E+00	1.23E-13	1.94E-08	1.02E-06
BARIUM	7440-39-3	0.00E+00	4.14E-15	1.85E-10	1.01E-08
BENZ(A)ANTHRACENE	56-55-3	0.00E+00	0.00E+00	9.10E-07	4.73E-05
BENZENE	71-43-2	7.57E-19	1.58E-19	4.66E-12	2.42E-10
BENZO(A)PYRENE	50-32-8	1.11E-12	4.45E-11	9.40E-07	2.49E-05
BENZO(B)FLUORANTHENE	205-99-2	0.00E+00	0.00E+00	2.08E-07	1.08E-05

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZO(K)FLUORANTHENE	207-08-9	0.00E+00	0.00E+00	4.41E-06	2.29E-04
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.00E+00	2.57E-14	8.19E-09	4.29E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.13E-09	1.12E-08	6.19E-02	3.21E+00
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	2.64E-12	2.14E-15	4.07E-08	6.61E-07
CARBON TETRACHLORIDE	56-23-5	2.42E-21	3.53E-22	2.69E-14	1.40E-12

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	4.69E-18	3.27E-19	6.87E-15	3.57E-13
CHROMIUM	7440-47-3	0.00E+00	0.00E+00	4.42E-07	2.30E-05
CHRYSENE	218-01-9	0.00E+00	0.00E+00	4.73E-07	2.46E-05
COPPER	7440-50-8	0.00E+00	0.00E+00	1.17E-06	6.07E-05
CROTONALDEHYDE	123-73-9	0.00E+00	0.00E+00	3.11E-14	1.62E-12
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIBENZ(A,H)ANTHRACENE	53-70-3	0.00E+00	0.00E+00	2.27E-06	1.18E-04
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	1.67E-19	5.28E-20	1.52E-12	7.90E-11
DIMETHYL PHTHALATE	131-11-3	1.55E-19	3.57E-20	6.78E-12	3.53E-10
DI-N-BUTYL PHTHALATE	84-74-2	3.64E-15	3.02E-15	1.32E-08	6.84E-07

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DI-N-OCTYL PHTHALATE	117-84-0	5.87E-12	1.46E-08	3.72E+01	1.93E+03
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	7.85E-20	1.29E-20	1.01E-12	5.27E-11
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	2.82E-17	4.82E-18	2.94E-15
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	0.00E+00	0.00E+00	3.63E-05	1.89E-03
LEAD	7439-92-1	0.00E+00	2.82E-10	2.07E-04	1.08E-02

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
MANGANESE	7439-96-5	0.00E+00	0.00E+00	7.96E-12	4.14E-10
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	2.15E-21	3.40E-22	1.21E-13	6.30E-12
METHYL ISOBUTYL KETONE	108-10-1	8.88E-21	8.28E-22	8.44E-14	4.39E-12

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	2.78E-20	3.42E-21	5.76E-13	3.00E-11
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	4.81E-19	3.61E-19	7.24E-11	3.77E-09
NAPHTHALENE	91-20-3	1.90E-15	3.40E-16	2.02E-10	1.04E-08
O-XYLENE	95-47-6	3.25E-19	2.03E-19	3.98E-11	2.07E-09
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.29E-16	9.32E-18	7.53E-11	3.91E-09
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	0.00E+00	3.17E-15	1.27E-10	6.99E-09
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbiviorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	5.00E-17	0.00E+00	3.24E-15
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	8.21E-19	4.35E-19	1.34E-11	6.97E-10
TRICHLOROETHYLENE	79-01-6	7.85E-23	5.41E-24	3.23E-23	3.51E-22
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	1.33E-12	5.87E-15	1.81E-08	5.55E-07

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.76E-06	2.83E-13	3.97E-12	7.65E-12
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	1.01E-14	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.02E-08	3.35E-11	4.69E-10	9.05E-10
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	2.10E-11	5.84E-11	5.84E-11	5.84E-11
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	3.22E-11	5.87E-08	5.87E-08	5.87E-08

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
ALUMINUM	7429-90-5	2.84E-07	7.26E-08	7.26E-08	7.26E-08
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	2.48E-16	1.19E-11	1.19E-11	1.19E-11
ARSENIC	7440-38-2	1.36E-06	8.46E-06	8.46E-06	8.46E-06
BARIUM	7440-39-3	1.31E-08	1.43E-05	1.43E-05	1.43E-05
BENZ(A)ANTHRACENE	56-55-3	6.42E-05	5.11E-07	4.50E-06	6.13E-06
BENZENE	71-43-2	3.28E-10	0.00E+00	0.00E+00	0.00E+00
BENZO(A)PYRENE	50-32-8	2.68E-05	1.06E-06	1.17E-05	1.91E-05
BENZO(B)FLUORANTHENE	205-99-2	1.46E-05	3.10E-08	2.73E-07	3.72E-07

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
BENZO(K)FLUORANTHENE	207-08-9	3.11E-04	5.53E-07	6.09E-06	9.96E-06
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	5.77E-07	7.14E-08	7.14E-08	7.14E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	4.35E+00	6.20E-06	7.44E-05	1.05E-04
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	8.96E-07	6.46E-06	6.46E-06	6.46E-06
CARBON TETRACHLORIDE	56-23-5	1.89E-12	3.83E-12	3.83E-12	3.83E-12

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	4.84E-13	6.87E-13	6.87E-13	6.87E-13
CHROMIUM	7440-47-3	3.12E-05	1.60E-08	1.60E-08	1.60E-08
CHRYSENE	218-01-9	3.34E-05	2.75E-07	2.42E-06	3.31E-06
COPPER	7440-50-8	8.23E-05	7.90E-03	7.90E-03	7.90E-03
CROTONALDEHYDE	123-73-9	2.19E-12	5.20E-11	5.20E-11	5.20E-11
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	3.17E-09	3.17E-09	3.17E-09

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
DIBENZ(A,H)ANTHRACENE	53-70-3	1.60E-04	7.18E-08	1.01E-06	1.94E-06
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	1.07E-10	0.00E+00	0.00E+00	0.00E+00
DIMETHYL PHTHALATE	131-11-3	4.78E-10	0.00E+00	0.00E+00	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2	9.27E-07	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
DI-N-OCTYL PHTHALATE	117-84-0	2.62E+03	2.72E-04	1.98E-03	1.63E-03
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	7.15E-11	6.16E-09	6.16E-09	6.16E-09
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
HEXAVALENT CHROMIUM	18540-29-9	3.51E-16	5.07E-13	5.07E-13	5.07E-13
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	2.56E-03	1.05E-06	1.46E-05	2.72E-05
LEAD	7439-92-1	1.46E-02	3.29E-06	3.29E-06	3.29E-06

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
MANGANESE	7439-96-5	5.61E-10	9.80E-08	9.80E-08	9.80E-08
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	8.55E-12	3.86E-10	3.86E-10	3.86E-10
METHYL ISOBUTYL KETONE	108-10-1	5.95E-12	4.53E-11	4.53E-11	4.53E-11

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	4.06E-11	2.89E-09	2.89E-09	2.89E-09
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	3.14E-08	3.14E-08	3.14E-08
M-XYLENE	108-38-3	5.11E-09	1.31E-08	1.31E-08	1.31E-08
NAPHTHALENE	91-20-3	1.41E-08	5.92E-08	6.51E-08	5.92E-08
O-XYLENE	95-47-6	2.81E-09	7.03E-09	7.03E-09	7.03E-09
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	5.30E-09	1.36E-08	1.36E-08	1.36E-08
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	8.98E-09	3.96E-07	3.96E-07	3.96E-07
STRONTIUM	7440-24-6	0.00E+00	3.29E-07	3.29E-07	3.29E-07
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 21 - Aquatic Food Item COPC Concentrations: Propellant 183 Day Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	2.04E-17	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	1.01E-05	1.01E-05	1.01E-05
TOLUENE	108-88-3	9.45E-10	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	2.21E-24	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	7.51E-07	5.62E-05	5.62E-05	5.62E-05

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Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.01E-13	4.41E-13	3.98E-07	2.08E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	3.96E-11	8.18E-13	2.86E-14	8.18E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	0.00E+00	5.21E-11	2.31E-09	2.46E-11
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	5.93E-09	5.83E-11	5.93E-11	5.83E-11
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	2.30E-08	2.68E-10	9.12E-11	2.68E-10
ALUMINUM	7429-90-5	0.00E+00	4.47E-05	8.04E-07	2.18E-04
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	5.35E-12	8.77E-10	0.00E+00	4.16E-12
ARSENIC	7440-38-2	1.72E-07	4.33E-05	3.86E-06	1.08E-05
BARIUM	7440-39-3	2.96E-07	1.17E-05	3.70E-08	9.02E-06
BENZ(A)ANTHRACENE	56-55-3	2.91E-07	1.07E-05	2.09E-05	2.51E-05

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
BENZENE	71-43-2	4.63E-09	1.33E-09	9.29E-10	1.33E-09
BENZO(A)PYRENE	50-32-8	9.95E-07	2.23E-05	6.97E-06	1.99E-05
BENZO(B)FLUORANTHENE	205-99-2	2.99E-08	6.50E-07	4.77E-06	5.81E-07
BENZO(K)FLUORANTHENE	207-08-9	5.24E-07	1.16E-05	8.35E-05	2.92E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.82E-08	3.24E-07	1.63E-06	1.03E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	3.14E-05	1.75E-03	1.03E+00	5.62E-05
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	5.33E-07	1.11E-05	2.54E-06	4.92E-05
CARBON TETRACHLORIDE	56-23-5	3.93E-13	7.63E-11	5.36E-12	3.05E-12
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	1.41E-12	1.08E-12	1.37E-12	1.08E-12
CHROMIUM	7440-47-3	1.21E-04	7.39E-06	9.05E-05	5.03E-06
CHRYSENE	218-01-9	1.48E-07	5.78E-06	1.09E-05	1.08E-06
COPPER	7440-50-8	3.11E-04	1.20E-02	2.33E-04	8.25E-02
CROTONALDEHYDE	123-73-9	5.78E-10	3.99E-11	6.21E-12	3.99E-11
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	1.39E-07	0.00E+00	2.57E-05
DIBENZ(A,H)ANTHRACENE	53-70-3	1.31E-07	1.51E-06	3.30E-05	2.03E-07
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	4.34E-10	6.95E-10	3.03E-10	6.95E-10

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
DIMETHYL PHTHALATE	131-11-3	4.26E-09	1.28E-10	1.35E-09	1.28E-10
DI-N-BUTYL PHTHALATE	84-74-2	2.31E-08	2.06E-06	1.53E-06	2.06E-06
DI-N-OCTYL PHTHALATE	117-84-0	5.10E-08	1.64E-03	1.02E+03	3.43E-04
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	3.48E-08	5.06E-09	2.02E-10	5.06E-09
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	9.61E-16	3.54E-16	9.61E-16	3.54E-16
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	1.27E-06	2.19E-05	5.24E-04	1.96E-05
LEAD	7439-92-1	3.28E-03	1.24E-01	4.14E-02	3.69E-01
MANGANESE	7439-96-5	1.27E-08	0.00E+00	1.59E-09	9.93E-06
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	1.15E-09	2.92E-11	2.42E-11	2.92E-11

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
METHYL ISOBUTYL KETONE	108-10-1	8.54E-11	1.83E-11	1.68E-11	1.83E-11
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.57E-09	2.07E-10	1.15E-10	2.07E-10
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	3.03E-10	9.62E-10	1.44E-08	9.62E-10
NAPHTHALENE	91-20-3	1.05E-06	5.04E-08	3.63E-08	5.04E-08
O-XYLENE	95-47-6	1.66E-10	5.18E-10	7.94E-09	5.18E-10
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	3.15E-10	1.00E-09	1.50E-08	1.00E-09
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	7.47E-10	9.63E-05	2.54E-08	2.68E-06
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	2.84E-09	3.53E-09	2.67E-09	3.53E-09
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	3.34E-06	1.18E-04	2.13E-06	2.49E-04

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	0.00E+00	0.00E+00	5.57E-08	2.90E-06
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	6.56E-23	7.87E-24	2.86E-16	1.49E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.96E-15	1.88E-15	1.92E-07	1.70E-08
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	9.15E-21	1.20E-21	5.93E-13	3.08E-11

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	9.12E-13	4.74E-11
ALUMINUM	7429-90-5	0.00E+00	0.00E+00	8.04E-09	4.18E-07
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	8.12E-19	0.00E+00	8.71E-14
ARSENIC	7440-38-2	0.00E+00	2.47E-13	3.86E-08	2.04E-06
BARIUM	7440-39-3	0.00E+00	8.31E-15	3.70E-10	2.01E-08
BENZ(A)ANTHRACENE	56-55-3	0.00E+00	0.00E+00	1.84E-06	9.57E-05
BENZENE	71-43-2	9.36E-19	2.74E-19	9.29E-12	4.83E-10
BENZO(A)PYRENE	50-32-8	2.26E-12	8.98E-11	1.90E-06	5.02E-05
BENZO(B)FLUORANTHENE	205-99-2	0.00E+00	0.00E+00	4.20E-07	2.18E-05
BENZO(K)FLUORANTHENE	207-08-9	0.00E+00	0.00E+00	9.19E-06	4.78E-04
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.00E+00	5.12E-14	1.63E-08	8.56E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.28E-09	2.24E-08	1.24E-01	6.41E+00
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	5.50E-12	4.28E-15	8.13E-08	1.32E-06
CARBON TETRACHLORIDE	56-23-5	1.45E-21	4.69E-22	5.36E-14	2.79E-12
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
CHLOROFORM	67-66-3	3.66E-22	7.91E-23	1.37E-14	7.13E-13
CHROMIUM	7440-47-3	0.00E+00	0.00E+00	9.05E-07	4.71E-05
CHRYSENE	218-01-9	0.00E+00	0.00E+00	9.63E-07	5.01E-05
COPPER	7440-50-8	0.00E+00	0.00E+00	2.33E-06	1.21E-04
CROTONALDEHYDE	123-73-9	0.00E+00	0.00E+00	6.21E-14	3.23E-12
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	0.00E+00	0.00E+00	4.62E-06	2.40E-04
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	3.32E-19	1.05E-19	3.03E-12	1.58E-10
DIMETHYL PHTHALATE	131-11-3	3.17E-19	7.17E-20	1.35E-11	7.03E-10
DI-N-BUTYL PHTHALATE	84-74-2	1.71E-15	5.91E-15	2.75E-08	1.43E-06
DI-N-OCTYL PHTHALATE	117-84-0	3.49E-11	2.92E-08	7.42E+01	3.86E+03
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	4.22E-19	4.44E-20	2.02E-12	1.05E-10
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	1.51E-20	9.61E-18	2.22E-15
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	0.00E+00	0.00E+00	7.34E-05	3.81E-03
LEAD	7439-92-1	0.00E+00	5.64E-10	4.14E-04	2.16E-02
MANGANESE	7439-96-5	0.00E+00	0.00E+00	1.59E-11	8.26E-10
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	5.56E-21	7.67E-22	2.42E-13	1.26E-11
METHYL ISOBUTYL KETONE	108-10-1	4.63E-21	7.39E-22	1.68E-13	8.76E-12
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	2.85E-20	4.94E-21	1.15E-12	5.97E-11
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	1.03E-18	7.26E-19	1.44E-10	7.51E-09
NAPHTHALENE	91-20-3	3.80E-15	6.78E-16	4.02E-10	2.08E-08
O-XYLENE	95-47-6	5.67E-19	3.99E-19	7.94E-11	4.13E-09
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.07E-18	7.54E-19	1.50E-10	7.80E-09
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	0.00E+00	6.54E-15	2.54E-10	1.39E-08
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	1.92E-18	8.88E-19	2.68E-11	1.39E-09
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	2.71E-12	1.17E-14	3.61E-08	1.11E-06

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.93E-06	5.65E-13	7.91E-12	1.53E-11
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	2.02E-14	0.00E+00	0.00E+00	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.28E-08	6.68E-11	9.36E-10	1.80E-09
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	4.18E-11	1.17E-10	1.17E-10	1.17E-10
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	6.43E-11	1.17E-07	1.17E-07	1.17E-07
ALUMINUM	7429-90-5	5.67E-07	1.45E-07	1.45E-07	1.45E-07
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	5.99E-19	2.38E-11	2.38E-11	2.38E-11
ARSENIC	7440-38-2	2.72E-06	1.69E-05	1.69E-05	1.69E-05
BARIUM	7440-39-3	2.61E-08	2.85E-05	2.85E-05	2.85E-05
BENZ(A)ANTHRACENE	56-55-3	1.30E-04	1.02E-06	8.97E-06	1.22E-05
BENZENE	71-43-2	6.55E-10	0.00E+00	0.00E+00	0.00E+00

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
BENZO(A)PYRENE	50-32-8	5.40E-05	2.12E-06	2.33E-05	3.81E-05
BENZO(B)FLUORANTHENE	205-99-2	2.96E-05	6.18E-08	5.44E-07	7.42E-07
BENZO(K)FLUORANTHENE	207-08-9	6.48E-04	1.10E-06	1.21E-05	1.99E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.15E-06	1.42E-07	1.42E-07	1.42E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	8.69E+00	1.24E-05	1.48E-04	2.10E-04
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.79E-06	1.29E-05	1.29E-05	1.29E-05
CARBON TETRACHLORIDE	56-23-5	3.78E-12	7.63E-12	7.63E-12	7.63E-12
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	9.66E-13	1.37E-12	1.37E-12	1.37E-12
CHROMIUM	7440-47-3	6.38E-05	3.19E-08	3.19E-08	3.19E-08
CHRYSENE	218-01-9	6.79E-05	5.49E-07	4.83E-06	6.59E-06
COPPER	7440-50-8	1.64E-04	1.57E-02	1.57E-02	1.57E-02
CROTONALDEHYDE	123-73-9	4.38E-12	1.04E-10	1.04E-10	1.04E-10
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	6.32E-09	6.32E-09	6.32E-09
DIBENZ(A,H)ANTHRACENE	53-70-3	3.26E-04	1.43E-07	2.00E-06	3.87E-06
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	2.14E-10	0.00E+00	0.00E+00	0.00E+00
DIMETHYL PHTHALATE	131-11-3	9.53E-10	0.00E+00	0.00E+00	0.00E+00

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
DI-N-BUTYL PHTHALATE	84-74-2	1.94E-06	0.00E+00	0.00E+00	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0	5.23E+03	5.42E-04	3.96E-03	3.25E-03
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	1.43E-10	1.23E-08	1.23E-08	1.23E-08
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	6.78E-16	1.01E-12	1.01E-12	1.01E-12
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	5.17E-03	2.08E-06	2.92E-05	5.42E-05
LEAD	7439-92-1	2.92E-02	6.57E-06	6.57E-06	6.57E-06
MANGANESE	7439-96-5	1.12E-09	1.95E-07	1.95E-07	1.95E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	1.70E-11	7.70E-10	7.70E-10	7.70E-10
METHYL ISOBUTYL KETONE	108-10-1	1.19E-11	9.04E-11	9.04E-11	9.04E-11

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	8.10E-11	5.76E-09	5.76E-09	5.76E-09
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	6.27E-08	6.27E-08	6.27E-08
M-XYLENE	108-38-3	1.02E-08	2.60E-08	2.60E-08	2.60E-08
NAPHTHALENE	91-20-3	2.81E-08	1.18E-07	1.30E-07	1.18E-07
O-XYLENE	95-47-6	5.60E-09	1.40E-08	1.40E-08	1.40E-08
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.06E-08	2.71E-08	2.71E-08	2.71E-08
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	1.79E-08	7.90E-07	7.90E-07	7.90E-07
STRONTIUM	7440-24-6	0.00E+00	6.55E-07	6.55E-07	6.55E-07
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 22 - Aquatic Food Item COPC Concentrations: Propellant 8,000 lbs. Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
TIN	7440-31-5	0.00E+00	2.02E-05	2.02E-05	2.02E-05
TOLUENE	108-88-3	1.89E-09	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	1.50E-06	1.12E-04	1.12E-04	1.12E-04

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.05E-15	1.76E-14	1.59E-08	8.30E-15
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	9.18E-12	1.90E-13	6.64E-15	1.90E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	0.00E+00	1.93E-12	8.56E-11	9.13E-13
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	1.38E-09	1.35E-11	1.38E-11	1.35E-11
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	5.34E-09	6.22E-11	2.12E-11	6.22E-11
ALUMINUM	7429-90-5	0.00E+00	1.05E-06	1.89E-08	5.11E-06
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	1.24E-12	2.03E-10	0.00E+00	9.65E-13
ARSENIC	7440-38-2	4.01E-09	1.01E-06	9.01E-08	2.52E-07
BARIUM	7440-39-3	6.91E-09	2.74E-07	8.63E-10	2.11E-07

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
BENZ(A)ANTHRACENE	56-55-3	7.53E-09	2.77E-07	5.40E-07	6.48E-07
BENZENE	71-43-2	1.07E-09	3.08E-10	2.16E-10	3.08E-10
BENZO(A)PYRENE	50-32-8	2.67E-08	5.98E-07	1.87E-07	5.34E-07
BENZO(B)FLUORANTHENE	205-99-2	1.21E-09	2.63E-08	1.93E-07	2.35E-08
BENZO(K)FLUORANTHENE	207-08-9	1.55E-08	3.44E-07	2.47E-06	8.65E-07
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	4.25E-10	7.58E-09	3.82E-08	2.42E-09

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	7.51E-07	4.20E-05	2.46E-02	1.34E-06
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.24E-08	2.59E-07	5.92E-08	1.15E-06
CARBON TETRACHLORIDE	56-23-5	9.11E-14	1.77E-11	1.24E-12	7.08E-13
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	3.27E-13	2.50E-13	3.18E-13	2.50E-13
CHROMIUM	7440-47-3	9.20E-06	5.63E-07	6.90E-06	3.83E-07
CHRYSENE	218-01-9	4.04E-09	1.57E-07	2.98E-07	2.93E-08

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
COPPER	7440-50-8	7.25E-06	2.80E-04	5.44E-06	1.93E-03
CROTONALDEHYDE	123-73-9	1.34E-10	9.25E-12	1.44E-12	9.25E-12
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	3.22E-08	0.00E+00	5.96E-06
DIBENZ(A,H)ANTHRACENE	53-70-3	3.98E-09	4.57E-08	1.00E-06	6.17E-09
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	1.01E-10	1.61E-10	7.03E-11	1.61E-10

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
DIMETHYL PHTHALATE	131-11-3	9.88E-10	2.96E-11	3.14E-10	2.96E-11
DI-N-BUTYL PHTHALATE	84-74-2	1.56E-09	1.40E-07	1.03E-07	1.40E-07
DI-N-OCTYL PHTHALATE	117-84-0	1.35E-09	4.36E-05	2.69E+01	9.09E-06
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
FORMALDEHYDE	50-00-0	8.08E-09	1.17E-09	4.69E-11	1.17E-09
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	2.23E-16	8.21E-17	2.23E-16	8.21E-17
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	3.82E-08	6.60E-07	1.58E-05	5.90E-07
LEAD	7439-92-1	7.68E-05	2.91E-03	9.68E-04	8.63E-03
MANGANESE	7439-96-5	2.97E-10	0.00E+00	3.71E-11	2.32E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
METHYL ETHYL KETONE	78-93-3	2.66E-10	6.78E-12	5.61E-12	6.78E-12
METHYL ISOBUTYL KETONE	108-10-1	1.98E-11	4.25E-12	3.91E-12	4.25E-12
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	3.64E-10	4.80E-11	2.66E-11	4.80E-11
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	7.02E-11	2.23E-10	3.35E-09	2.23E-10

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
NAPHTHALENE	91-20-3	2.44E-07	1.17E-08	8.41E-09	1.17E-08
O-XYLENE	95-47-6	3.86E-11	1.20E-10	1.84E-09	1.20E-10
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	7.30E-11	2.32E-10	3.48E-09	2.32E-10
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	1.74E-11	2.25E-06	5.93E-10	6.26E-08
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	6.60E-10	8.20E-10	6.20E-10	8.20E-10
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	7.80E-08	2.76E-06	4.96E-08	5.82E-06

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	0.00E+00	0.00E+00	2.22E-09	1.15E-07
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	1.52E-23	1.83E-24	6.64E-17	3.45E-15

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.26E-17	6.97E-17	7.12E-09	6.31E-10
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	2.12E-21	2.79E-22	1.38E-13	7.15E-12
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	2.12E-13	1.10E-11

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
ALUMINUM	7429-90-5	0.00E+00	0.00E+00	1.89E-10	9.81E-09
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	1.88E-19	0.00E+00	2.02E-14
ARSENIC	7440-38-2	0.00E+00	5.77E-15	9.01E-10	4.75E-08
BARIUM	7440-39-3	0.00E+00	1.94E-16	8.63E-12	4.70E-10
BENZ(A)ANTHRACENE	56-55-3	0.00E+00	0.00E+00	4.75E-08	2.47E-06
BENZENE	71-43-2	2.17E-19	6.36E-20	2.16E-12	1.12E-10
BENZO(A)PYRENE	50-32-8	6.06E-14	2.41E-12	5.08E-08	1.35E-06
BENZO(B)FLUORANTHENE	205-99-2	0.00E+00	0.00E+00	1.70E-08	8.83E-07

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZO(K)FLUORANTHENE	207-08-9	0.00E+00	0.00E+00	2.72E-07	1.42E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.00E+00	1.20E-15	3.82E-10	2.00E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	5.46E-11	5.35E-10	2.96E-03	1.53E-01
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.28E-13	9.99E-17	1.90E-09	3.08E-08
CARBON TETRACHLORIDE	56-23-5	3.37E-22	1.09E-22	1.24E-14	6.46E-13

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	8.48E-23	1.84E-23	3.18E-15	1.65E-13
CHROMIUM	7440-47-3	0.00E+00	0.00E+00	6.90E-08	3.59E-06
CHRYSENE	218-01-9	0.00E+00	0.00E+00	2.62E-08	1.36E-06
COPPER	7440-50-8	0.00E+00	0.00E+00	5.44E-08	2.83E-06
CROTONALDEHYDE	123-73-9	0.00E+00	0.00E+00	1.44E-14	7.49E-13
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	0.00E+00	0.00E+00	1.40E-07	7.29E-06

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	7.70E-20	2.44E-20	7.03E-13	3.65E-11
DIMETHYL PHTHALATE	131-11-3	7.35E-20	1.66E-20	3.14E-12	1.63E-10
DI-N-BUTYL PHTHALATE	84-74-2	1.16E-16	3.99E-16	1.86E-09	9.65E-08
DI-N-OCTYL PHTHALATE	117-84-0	9.24E-13	7.74E-10	1.97E+00	1.02E+02

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	9.78E-20	1.03E-20	4.69E-13	2.44E-11
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	3.51E-21	2.23E-18	5.14E-16

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	0.00E+00	0.00E+00	2.21E-06	1.15E-04
LEAD	7439-92-1	0.00E+00	1.32E-11	9.68E-06	5.05E-04
MANGANESE	7439-96-5	0.00E+00	0.00E+00	3.71E-13	1.93E-11

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	1.29E-21	1.78E-22	5.61E-14	2.92E-12
METHYL ISOBUTYL KETONE	108-10-1	1.07E-21	1.71E-22	3.91E-14	2.03E-12
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYLENE CHLORIDE	75-09-2	6.60E-21	1.15E-21	2.66E-13	1.39E-11
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	2.40E-19	1.68E-19	3.35E-11	1.74E-09
NAPHTHALENE	91-20-3	8.81E-16	1.57E-16	9.33E-11	4.81E-09
O-XYLENE	95-47-6	1.31E-19	9.25E-20	1.84E-11	9.57E-10
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	2.49E-19	1.75E-19	3.48E-11	1.81E-09
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	0.00E+00	1.53E-16	5.93E-12	3.25E-10
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	4.46E-19	2.06E-19	6.20E-12	3.23E-10
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	6.34E-14	2.74E-16	8.43E-10	2.58E-08

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.56E-07	2.25E-14	3.15E-13	6.08E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	4.68E-15	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	8.45E-10	2.48E-12	3.47E-11	6.69E-11
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	9.69E-12	2.70E-11	2.70E-11	2.70E-11
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	1.49E-11	2.71E-08	2.71E-08	2.71E-08

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
ALUMINUM	7429-90-5	1.33E-08	3.39E-09	3.39E-09	3.39E-09
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	1.39E-19	5.51E-12	5.51E-12	5.51E-12
ARSENIC	7440-38-2	6.35E-08	3.94E-07	3.94E-07	3.94E-07
BARIUM	7440-39-3	6.09E-10	6.66E-07	6.66E-07	6.66E-07
BENZ(A)ANTHRACENE	56-55-3	3.35E-06	2.63E-08	2.32E-07	3.16E-07
BENZENE	71-43-2	1.52E-10	0.00E+00	0.00E+00	0.00E+00
BENZO(A)PYRENE	50-32-8	1.45E-06	5.68E-08	6.25E-07	1.02E-06
BENZO(B)FLUORANTHENE	205-99-2	1.20E-06	2.50E-09	2.20E-08	3.00E-08

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
BENZO(K)FLUORANTHENE	207-08-9	1.92E-05	3.27E-08	3.60E-07	5.89E-07
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	2.69E-08	3.33E-09	3.33E-09	3.33E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.08E-01	2.96E-07	3.55E-06	5.03E-06
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	4.18E-08	3.01E-07	3.01E-07	3.01E-07
CARBON TETRACHLORIDE	56-23-5	8.76E-13	1.77E-12	1.77E-12	1.77E-12

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	2.24E-13	3.18E-13	3.18E-13	3.18E-13
CHROMIUM	7440-47-3	4.86E-06	2.43E-09	2.43E-09	2.43E-09
CHRYSENE	218-01-9	1.85E-06	1.50E-08	1.32E-07	1.80E-07
COPPER	7440-50-8	3.83E-06	3.68E-04	3.68E-04	3.68E-04
CROTONALDEHYDE	123-73-9	1.02E-12	2.41E-11	2.41E-11	2.41E-11
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	1.47E-09	1.47E-09	1.47E-09
DIBENZ(A,H)ANTHRACENE	53-70-3	9.89E-06	4.35E-09	6.08E-08	1.17E-07

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	4.95E-11	0.00E+00	0.00E+00	0.00E+00
DIMETHYL PHTHALATE	131-11-3	2.21E-10	0.00E+00	0.00E+00	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2	1.31E-07	0.00E+00	0.00E+00	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0	1.39E+02	1.44E-05	1.05E-04	8.62E-05

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	3.31E-11	2.85E-09	2.85E-09	2.85E-09
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	1.57E-16	2.35E-13	2.35E-13	2.35E-13

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	1.56E-04	6.28E-08	8.79E-07	1.63E-06
LEAD	7439-92-1	6.82E-04	1.54E-07	1.54E-07	1.54E-07
MANGANESE	7439-96-5	2.61E-11	4.56E-09	4.56E-09	4.56E-09

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	3.95E-12	1.79E-10	1.79E-10	1.79E-10
METHYL ISOBUTYL KETONE	108-10-1	2.75E-12	2.10E-11	2.10E-11	2.10E-11
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
METHYLENE CHLORIDE	75-09-2	1.88E-11	1.34E-09	1.34E-09	1.34E-09
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	1.46E-09	1.46E-09	1.46E-09
M-XYLENE	108-38-3	2.36E-09	6.04E-09	6.04E-09	6.04E-09
NAPHTHALENE	91-20-3	6.52E-09	2.74E-08	3.01E-08	2.74E-08
O-XYLENE	95-47-6	1.30E-09	3.25E-09	3.25E-09	3.25E-09
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	2.45E-09	6.27E-09	6.27E-09	6.27E-09
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	4.18E-10	1.84E-08	1.84E-08	1.84E-08
STRONTIUM	7440-24-6	0.00E+00	1.53E-08	1.53E-08	1.53E-08
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 23 - Aquatic Food Item COPC Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
TIN	7440-31-5	0.00E+00	4.72E-07	4.72E-07	4.72E-07
TOLUENE	108-88-3	4.37E-10	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	3.50E-08	2.62E-06	2.62E-06	2.62E-06

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.03E-15	8.81E-15	7.95E-09	4.16E-15
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
1,4-DIOXANE	123-91-1	4.60E-12	9.51E-14	3.33E-15	9.51E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	0.00E+00	9.69E-13	4.29E-11	4.58E-13
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	6.89E-10	6.77E-12	6.89E-12	6.77E-12
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	2.68E-09	3.12E-11	1.06E-11	3.12E-11
ALUMINUM	7429-90-5	0.00E+00	5.25E-07	9.45E-09	2.56E-06
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	6.22E-13	1.02E-10	0.00E+00	4.84E-13
ARSENIC	7440-38-2	2.01E-09	5.07E-07	4.52E-08	1.26E-07
BARIUM	7440-39-3	3.46E-09	1.37E-07	4.33E-10	1.06E-07
BENZ(A)ANTHRACENE	56-55-3	3.77E-09	1.39E-07	2.71E-07	3.25E-07
BENZENE	71-43-2	5.38E-10	1.54E-10	1.08E-10	1.54E-10
BENZO(A)PYRENE	50-32-8	1.34E-08	3.00E-07	9.37E-08	2.68E-07
BENZO(B)FLUORANTHENE	205-99-2	6.07E-10	1.32E-08	9.68E-08	1.18E-08
BENZO(K)FLUORANTHENE	207-08-9	7.78E-09	1.72E-07	1.24E-06	4.34E-07

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	2.13E-10	3.80E-09	1.92E-08	1.21E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	3.77E-07	2.11E-05	1.23E-02	6.74E-07
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	6.24E-09	1.30E-07	2.97E-08	5.76E-07
CARBON TETRACHLORIDE	56-23-5	4.57E-14	8.87E-12	6.23E-13	3.55E-13
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	1.64E-13	1.25E-13	1.59E-13	1.25E-13
CHROMIUM	7440-47-3	4.61E-06	2.82E-07	3.46E-06	1.92E-07
CHRYSENE	218-01-9	2.03E-09	7.89E-08	1.50E-07	1.47E-08
COPPER	7440-50-8	3.63E-06	1.40E-04	2.73E-06	9.65E-04
CROTONALDEHYDE	123-73-9	6.73E-11	4.64E-12	7.22E-13	4.64E-12
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	1.62E-08	0.00E+00	2.99E-06
DIBENZ(A,H)ANTHRACENE	53-70-3	2.00E-09	2.29E-08	5.02E-07	3.09E-09
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	5.05E-11	8.08E-11	3.52E-11	8.08E-11
DIMETHYL PHTHALATE	131-11-3	4.95E-10	1.48E-11	1.57E-10	1.48E-11
DI-N-BUTYL PHTHALATE	84-74-2	7.82E-10	7.00E-08	5.17E-08	7.00E-08
DI-N-OCTYL PHTHALATE	117-84-0	6.78E-10	2.19E-05	1.35E+01	4.56E-06

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	4.05E-09	5.88E-10	2.35E-11	5.88E-10
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	1.12E-16	4.12E-17	1.12E-16	4.12E-17
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	1.92E-08	3.31E-07	7.91E-06	2.96E-07
LEAD	7439-92-1	3.85E-05	1.46E-03	4.85E-04	4.33E-03
MANGANESE	7439-96-5	1.49E-10	0.00E+00	1.86E-11	1.16E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	1.33E-10	3.40E-12	2.81E-12	3.40E-12
METHYL ISOBUTYL KETONE	108-10-1	9.92E-12	2.13E-12	1.96E-12	2.13E-12
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
METHYLENE CHLORIDE	75-09-2	1.83E-10	2.41E-11	1.34E-11	2.41E-11
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	3.52E-11	1.12E-10	1.68E-09	1.12E-10
NAPHTHALENE	91-20-3	1.22E-07	5.86E-09	4.22E-09	5.86E-09
O-XYLENE	95-47-6	1.94E-11	6.03E-11	9.23E-10	6.03E-11
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	3.66E-11	1.16E-10	1.75E-09	1.16E-10
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	8.75E-12	1.13E-06	2.97E-10	3.14E-08
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Aquatic Vegetation**	**Algae**	**Benthic Invertebrates**	**Water Invertebrates**
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	3.31E-10	4.11E-10	3.11E-10	4.11E-10
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	3.91E-08	1.39E-06	2.49E-08	2.92E-06

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	0.00E+00	0.00E+00	1.11E-09	5.79E-08
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	7.63E-24	9.15E-25	3.33E-17	1.73E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.64E-17	3.49E-17	3.57E-09	3.16E-10
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
ACETONE	67-64-1	1.06E-21	1.40E-22	6.89E-14	3.58E-12
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	1.06E-13	5.51E-12
ALUMINUM	7429-90-5	0.00E+00	0.00E+00	9.45E-11	4.92E-09
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	9.45E-20	0.00E+00	1.01E-14
ARSENIC	7440-38-2	0.00E+00	2.89E-15	4.52E-10	2.38E-08
BARIUM	7440-39-3	0.00E+00	9.73E-17	4.33E-12	2.36E-10
BENZ(A)ANTHRACENE	56-55-3	0.00E+00	0.00E+00	2.38E-08	1.24E-06
BENZENE	71-43-2	1.09E-19	3.19E-20	1.08E-12	5.62E-11
BENZO(A)PYRENE	50-32-8	3.04E-14	1.21E-12	2.55E-08	6.75E-07
BENZO(B)FLUORANTHENE	205-99-2	0.00E+00	0.00E+00	8.51E-09	4.43E-07
BENZO(K)FLUORANTHENE	207-08-9	0.00E+00	0.00E+00	1.36E-07	7.10E-06
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.00E+00	6.00E-16	1.92E-10	1.00E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.74E-11	2.68E-10	1.48E-03	7.69E-02
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	6.44E-14	5.01E-17	9.51E-10	1.54E-08

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
CARBON TETRACHLORIDE	56-23-5	1.69E-22	5.46E-23	6.23E-15	3.24E-13
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	4.25E-23	9.20E-24	1.59E-15	8.29E-14
CHROMIUM	7440-47-3	0.00E+00	0.00E+00	3.46E-08	1.80E-06
CHRYSENE	218-01-9	0.00E+00	0.00E+00	1.32E-08	6.84E-07
COPPER	7440-50-8	0.00E+00	0.00E+00	2.73E-08	1.42E-06
CROTONALDEHYDE	123-73-9	0.00E+00	0.00E+00	7.22E-15	3.75E-13
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	0.00E+00	0.00E+00	7.03E-08	3.66E-06
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	3.86E-20	1.22E-20	3.52E-13	1.83E-11
DIMETHYL PHTHALATE	131-11-3	3.68E-20	8.34E-21	1.57E-12	8.18E-11
DI-N-BUTYL PHTHALATE	84-74-2	5.80E-17	2.00E-16	9.33E-10	4.84E-08
DI-N-OCTYL PHTHALATE	117-84-0	4.63E-13	3.88E-10	9.86E-01	5.13E+01
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	4.90E-20	5.16E-21	2.35E-13	1.22E-11
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	1.76E-21	1.12E-18	2.58E-16
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	0.00E+00	0.00E+00	1.11E-06	5.76E-05
LEAD	7439-92-1	0.00E+00	6.61E-12	4.85E-06	2.53E-04
MANGANESE	7439-96-5	0.00E+00	0.00E+00	1.86E-13	9.67E-12
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	6.46E-22	8.92E-23	2.81E-14	1.46E-12
METHYL ISOBUTYL KETONE	108-10-1	5.38E-22	8.59E-23	1.96E-14	1.02E-12
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	3.31E-21	5.75E-22	1.34E-13	6.95E-12
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	1.20E-19	8.44E-20	1.68E-11	8.74E-10
NAPHTHALENE	91-20-3	4.42E-16	7.88E-17	4.68E-11	2.41E-09

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
O-XYLENE	95-47-6	6.59E-20	4.64E-20	9.23E-12	4.80E-10
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.25E-19	8.77E-20	1.75E-11	9.08E-10
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	0.00E+00	7.66E-17	2.97E-12	1.63E-10
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	2.24E-19	1.03E-19	3.11E-12	1.62E-10
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	3.18E-14	1.37E-16	4.23E-10	1.30E-08

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	7.85E-08	1.13E-14	1.58E-13	3.05E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	2.35E-15	0.00E+00	0.00E+00	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.24E-10	1.24E-12	1.74E-11	3.36E-11
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	4.86E-12	1.35E-11	1.35E-11	1.35E-11
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	7.48E-12	1.36E-08	1.36E-08	1.36E-08
ALUMINUM	7429-90-5	6.67E-09	1.70E-09	1.70E-09	1.70E-09
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	6.97E-20	2.76E-12	2.76E-12	2.76E-12
ARSENIC	7440-38-2	3.19E-08	1.97E-07	1.97E-07	1.97E-07
BARIUM	7440-39-3	3.05E-10	3.34E-07	3.34E-07	3.34E-07

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
BENZ(A)ANTHRACENE	56-55-3	1.68E-06	1.32E-08	1.16E-07	1.58E-07
BENZENE	71-43-2	7.62E-11	0.00E+00	0.00E+00	0.00E+00
BENZO(A)PYRENE	50-32-8	7.27E-07	2.85E-08	3.13E-07	5.13E-07
BENZO(B)FLUORANTHENE	205-99-2	6.00E-07	1.25E-09	1.10E-08	1.50E-08
BENZO(K)FLUORANTHENE	207-08-9	9.62E-06	1.64E-08	1.80E-07	2.95E-07
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.35E-08	1.67E-09	1.67E-09	1.67E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.04E-01	1.48E-07	1.78E-06	2.52E-06
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	2.09E-08	1.51E-07	1.51E-07	1.51E-07
CARBON TETRACHLORIDE	56-23-5	4.39E-13	8.87E-13	8.87E-13	8.87E-13
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	1.12E-13	1.59E-13	1.59E-13	1.59E-13
CHROMIUM	7440-47-3	2.44E-06	1.22E-09	1.22E-09	1.22E-09
CHRYSENE	218-01-9	9.28E-07	7.50E-09	6.60E-08	9.00E-08
COPPER	7440-50-8	1.92E-06	1.84E-04	1.84E-04	1.84E-04
CROTONALDEHYDE	123-73-9	5.09E-13	1.21E-11	1.21E-11	1.21E-11
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	7.35E-10	7.35E-10	7.35E-10
DIBENZ(A,H)ANTHRACENE	53-70-3	4.96E-06	2.18E-09	3.05E-08	5.88E-08

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	2.48E-11	0.00E+00	0.00E+00	0.00E+00
DIMETHYL PHTHALATE	131-11-3	1.11E-10	0.00E+00	0.00E+00	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2	6.56E-08	0.00E+00	0.00E+00	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0	6.95E+01	7.21E-06	5.26E-05	4.32E-05
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	1.66E-11	1.43E-09	1.43E-09	1.43E-09
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	7.88E-17	1.18E-13	1.18E-13	1.18E-13
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	7.80E-05	3.15E-08	4.41E-07	8.18E-07
LEAD	7439-92-1	3.42E-04	7.70E-08	7.70E-08	7.70E-08
MANGANESE	7439-96-5	1.31E-11	2.29E-09	2.29E-09	2.29E-09
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	1.98E-12	8.96E-11	8.96E-11	8.96E-11
METHYL ISOBUTYL KETONE	108-10-1	1.38E-12	1.05E-11	1.05E-11	1.05E-11
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	9.42E-12	6.70E-10	6.70E-10	6.70E-10
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	7.34E-10	7.34E-10	7.34E-10
M-XYLENE	108-38-3	1.18E-09	3.03E-09	3.03E-09	3.03E-09
NAPHTHALENE	91-20-3	3.27E-09	1.37E-08	1.51E-08	1.37E-08
O-XYLENE	95-47-6	6.51E-10	1.63E-09	1.63E-09	1.63E-09
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.23E-09	3.15E-09	3.15E-09	3.15E-09
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	2.10E-10	9.24E-09	9.24E-09	9.24E-09
STRONTIUM	7440-24-6	0.00E+00	7.67E-09	7.67E-09	7.67E-09

Table 24 - Aquatic Food Item COPC Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Insectivorous Mammals**	**Herbivorous Fish**	**Omnivorous Fish**	**Carnivorous Fish**
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	2.36E-07	2.36E-07	2.36E-07
TOLUENE	108-88-3	2.19E-10	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	1.75E-08	1.31E-06	1.31E-06	1.31E-06

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	7.22E-12	8.46E-11	0.00E+00	0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6	1.29E-12	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	9.29E-16	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	0.00E+00	0.00E+00	1.99E-24	8.59E-25
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.12E-11	7.11E-09	9.33E-13	6.93E-15
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	0.00E+00	0.00E+00	1.14E-22	4.65E-23
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	3.88E-04	5.35E-07	0.00E+00	0.00E+00
AMMONIA	7664-41-7	1.32E-13	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	0.00E+00	0.00E+00	6.08E-16
ARSENIC	7440-38-2	1.10E-03	3.06E-09	0.00E+00	2.32E-11
BARIUM	7440-39-3	3.35E-04	1.84E-10	0.00E+00	5.31E-13
BENZ(A)ANTHRACENE	56-55-3	9.75E-06	1.76E-06	0.00E+00	0.00E+00

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
BENZENE	71-43-2	0.00E+00	0.00E+00	5.72E-20	2.37E-20
BENZO(A)PYRENE	50-32-8	4.30E-05	2.49E-05	1.38E-11	1.16E-10
BENZO(B)FLUORANTHENE	205-99-2	8.52E-06	2.50E-07	0.00E+00	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9	3.27E-05	1.64E-05	0.00E+00	0.00E+00
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.69E-05	1.31E-07	0.00E+00	1.95E-13
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	6.94E-04	2.23E-01	7.14E-09	1.21E-08
BUTYLBENZYLPHTHALATE	85-68-7	8.02E-06	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.05E-04	4.05E-07	1.48E-10	1.34E-13
CARBON TETRACHLORIDE	56-23-5	0.00E+00	0.00E+00	3.48E-22	1.44E-22
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	0.00E+00	0.00E+00	7.89E-19	3.27E-19
CHROMIUM	7440-47-3	8.58E-05	1.25E-04	0.00E+00	0.00E+00
CHRYSENE	218-01-9	1.30E-05	1.80E-06	0.00E+00	0.00E+00
COPPER	7440-50-8	1.63E-01	1.38E-05	0.00E+00	0.00E+00
CROTONALDEHYDE	123-73-9	2.39E-14	4.95E-18	0.00E+00	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	6.84E-05	1.38E-06	0.00E+00	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
DIETHYL PHTHALATE	84-66-2	0.00E+00	0.00E+00	6.92E-21	2.83E-21
DIMETHYL PHTHALATE	131-11-3	0.00E+00	0.00E+00	2.02E-22	8.39E-23
DI-N-BUTYL PHTHALATE	84-74-2	9.28E-06	1.21E-05	7.69E-14	1.23E-13
DI-N-OCTYL PHTHALATE	117-84-0	2.28E-04	2.15E+02	7.34E-09	1.39E-08
ETHYL ACRYLATE	140-88-5	3.09E-17	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	5.32E-07	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	8.14E-12	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	0.00E+00	0.00E+00	2.82E-17
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	4.96E-12	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	5.21E-14	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	5.43E-04	1.90E-05	0.00E+00	0.00E+00
LEAD	7439-92-1	5.39E-01	3.90E-04	0.00E+00	1.82E-09
MANGANESE	7439-96-5	1.81E-05	3.22E-11	0.00E+00	0.00E+00
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	0.00E+00	0.00E+00	1.32E-23	5.46E-24
METHYL ISOBUTYL KETONE	108-10-1	0.00E+00	0.00E+00	1.23E-21	5.12E-22
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	0.00E+00	0.00E+00	2.77E-21	1.15E-21
METHYLNAPHTHALENE, 2-	91-57-6	2.33E-09	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	4.52E-05	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	0.00E+00	0.00E+00	7.42E-21	3.08E-21
NAPHTHALENE	91-20-3	0.00E+00	0.00E+00	1.95E-20	8.11E-21
O-XYLENE	95-47-6	0.00E+00	0.00E+00	1.43E-20	5.94E-21
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	1.69E-11	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	2.79E-15	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	0.00E+00	0.00E+00	2.16E-17	8.94E-18
PYRENE	129-00-0	1.01E-06	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	6.69E-05	1.27E-10	0.00E+00	2.12E-12
STRONTIUM	7440-24-6	8.03E-05	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	5.00E-17
TIN	7440-31-5	4.86E-05	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	1.32E-23	5.41E-24
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	4.01E-04	4.20E-07	4.54E-11	3.83E-13

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	8.49E-10	6.16E-10	8.49E-10	8.35E-10
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	9.04E-25	5.58E-23	9.04E-25	3.51E-25
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.14E-08	5.25E-08	7.14E-08	7.02E-08
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	5.16E-23	3.02E-21	5.16E-23	1.90E-23
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	3.83E-07	2.78E-07	3.83E-07	3.77E-07
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	3.95E-14	0.00E+00	2.48E-16
ARSENIC	7440-38-2	2.19E-09	8.96E-08	2.19E-09	2.15E-09
BARIUM	7440-39-3	1.32E-10	2.11E-09	1.32E-10	1.30E-10
BENZ(A)ANTHRACENE	56-55-3	1.11E-05	8.06E-06	1.11E-05	1.09E-05

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
BENZENE	71-43-2	2.59E-20	1.54E-18	2.59E-20	9.68E-21
BENZO(A)PYRENE	50-32-8	1.96E-04	1.54E-04	1.96E-04	1.93E-04
BENZO(B)FLUORANTHENE	205-99-2	1.58E-06	1.14E-06	1.58E-06	1.55E-06
BENZO(K)FLUORANTHENE	207-08-9	1.29E-04	9.37E-05	1.29E-04	1.27E-04
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	9.39E-08	7.07E-08	9.39E-08	9.24E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.92E+00	1.39E+00	1.92E+00	1.89E+00
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	2.90E-07	2.11E-07	2.90E-07	2.85E-07
CARBON TETRACHLORIDE	56-23-5	1.58E-22	9.36E-21	1.58E-22	5.89E-23
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	3.58E-19	2.12E-17	3.58E-19	1.34E-19
CHROMIUM	7440-47-3	8.93E-05	6.48E-05	8.93E-05	8.78E-05
CHRYSENE	218-01-9	1.13E-05	8.22E-06	1.13E-05	1.11E-05
COPPER	7440-50-8	9.86E-06	7.15E-06	9.86E-06	9.70E-06
CROTONALDEHYDE	123-73-9	3.55E-18	2.58E-18	3.55E-18	3.49E-18
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	1.38E-05	1.00E-05	1.38E-05	1.36E-05
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
DIETHYL PHTHALATE	84-66-2	3.14E-21	1.84E-19	3.14E-21	1.16E-21
DIMETHYL PHTHALATE	131-11-3	9.18E-23	5.45E-21	9.18E-23	3.43E-23
DI-N-BUTYL PHTHALATE	84-74-2	1.56E-05	1.13E-05	1.56E-05	1.54E-05
DI-N-OCTYL PHTHALATE	117-84-0	1.12E+03	8.14E+02	1.12E+03	1.10E+03
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	1.83E-15	0.00E+00	1.15E-17
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	1.91E-04	1.39E-04	1.91E-04	1.88E-04
LEAD	7439-92-1	2.80E-04	2.22E-04	2.80E-04	2.75E-04
MANGANESE	7439-96-5	2.31E-11	1.67E-11	2.31E-11	2.27E-11
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	5.97E-24	3.54E-22	5.97E-24	2.23E-24
METHYL ISOBUTYL KETONE	108-10-1	5.60E-22	3.33E-20	5.60E-22	2.09E-22
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.26E-21	7.46E-20	1.26E-21	4.69E-22
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	3.37E-21	2.00E-19	3.37E-21	1.26E-21
NAPHTHALENE	91-20-3	8.87E-21	5.27E-19	8.87E-21	3.31E-21
O-XYLENE	95-47-6	6.49E-21	3.86E-19	6.49E-21	2.42E-21
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	9.78E-18	5.81E-16	9.78E-18	3.65E-18
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	9.08E-11	8.09E-09	9.08E-11	8.93E-11
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 25 - Terrestrial Food Item Concentrations: Propellant 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	3.24E-15	0.00E+00	2.04E-17
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	5.99E-24	3.51E-22	5.99E-24	2.21E-24
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	3.01E-07	2.20E-07	3.01E-07	2.96E-07

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.78E-10	1.69E-10	0.00E+00	0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6	2.58E-12	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	1.86E-15	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	0.00E+00	0.00E+00	5.05E-24	2.18E-24
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.73E-10	1.42E-08	3.35E-12	1.41E-14
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	0.00E+00	0.00E+00	3.74E-22	1.53E-22
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	7.78E-04	1.07E-06	0.00E+00	0.00E+00
AMMONIA	7664-41-7	2.66E-13	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	0.00E+00	0.00E+00	4.87E-21
ARSENIC	7440-38-2	2.21E-03	6.12E-09	0.00E+00	4.66E-11
BARIUM	7440-39-3	6.71E-04	3.69E-10	0.00E+00	1.06E-12
BENZ(A)ANTHRACENE	56-55-3	1.95E-05	3.53E-06	0.00E+00	0.00E+00

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
BENZENE	71-43-2	0.00E+00	0.00E+00	1.75E-20	7.25E-21
BENZO(A)PYRENE	50-32-8	8.56E-05	4.98E-05	2.75E-11	2.32E-10
BENZO(B)FLUORANTHENE	205-99-2	1.69E-05	5.01E-07	0.00E+00	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9	6.50E-05	3.28E-05	0.00E+00	0.00E+00
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	3.38E-05	2.62E-07	0.00E+00	3.91E-13
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.39E-03	4.47E-01	1.43E-08	2.42E-08
BUTYLBENZYLPHTHALATE	85-68-7	1.60E-05	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	2.11E-04	8.11E-07	2.98E-10	2.68E-13
CARBON TETRACHLORIDE	56-23-5	0.00E+00	0.00E+00	1.26E-22	5.21E-23
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	0.00E+00	0.00E+00	1.89E-23	7.82E-24
CHROMIUM	7440-47-3	1.72E-04	2.49E-04	0.00E+00	0.00E+00
CHRYSENE	218-01-9	2.58E-05	3.60E-06	0.00E+00	0.00E+00
COPPER	7440-50-8	3.27E-01	2.75E-05	0.00E+00	0.00E+00
CROTONALDEHYDE	123-73-9	4.79E-14	9.92E-18	0.00E+00	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	1.35E-04	2.76E-06	0.00E+00	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
DIETHYL PHTHALATE	84-66-2	0.00E+00	0.00E+00	1.38E-20	5.64E-21
DIMETHYL PHTHALATE	131-11-3	0.00E+00	0.00E+00	1.73E-21	7.16E-22
DI-N-BUTYL PHTHALATE	84-74-2	1.86E-05	2.42E-05	1.53E-13	2.45E-13
DI-N-OCTYL PHTHALATE	117-84-0	4.57E-04	4.30E+02	1.47E-08	2.78E-08
ETHYL ACRYLATE	140-88-5	6.19E-17	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	1.07E-06	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	4.46E-20	1.86E-20
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	1.63E-11	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	0.00E+00	0.00E+00	2.28E-22
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	9.93E-12	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	1.04E-13	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	1.08E-03	3.81E-05	0.00E+00	0.00E+00
LEAD	7439-92-1	1.08E+00	7.81E-04	0.00E+00	3.64E-09
MANGANESE	7439-96-5	3.64E-05	6.44E-11	0.00E+00	0.00E+00
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	0.00E+00	0.00E+00	2.41E-22	9.98E-23
METHYL ISOBUTYL KETONE	108-10-1	0.00E+00	0.00E+00	2.62E-22	1.09E-22
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	0.00E+00	0.00E+00	9.85E-22	4.09E-22
METHYLNAPHTHALENE, 2-	91-57-6	4.67E-09	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	9.06E-05	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	0.00E+00	0.00E+00	2.75E-20	1.14E-20
NAPHTHALENE	91-20-3	0.00E+00	0.00E+00	1.38E-18	5.73E-19
O-XYLENE	95-47-6	0.00E+00	0.00E+00	1.48E-20	6.14E-21
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	3.38E-11	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	5.59E-15	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	0.00E+00	0.00E+00	2.86E-20	1.18E-20
PYRENE	129-00-0	2.03E-06	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	1.34E-04	2.54E-10	0.00E+00	4.25E-12
STRONTIUM	7440-24-6	1.61E-04	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	9.72E-05	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	0.00E+00	0.00E+00	4.81E-20	1.97E-20
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	8.03E-04	8.41E-07	9.09E-11	7.67E-13

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.70E-09	1.23E-09	1.70E-09	1.67E-09
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	2.29E-24	1.41E-22	2.29E-24	8.89E-25
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.43E-07	1.05E-07	1.43E-07	1.41E-07
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	1.70E-22	9.92E-21	1.70E-22	6.24E-23
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	7.68E-07	5.57E-07	7.68E-07	7.55E-07
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	3.16E-19	0.00E+00	1.99E-21
ARSENIC	7440-38-2	4.39E-09	1.80E-07	4.39E-09	4.31E-09
BARIUM	7440-39-3	2.65E-10	4.22E-09	2.65E-10	2.60E-10
BENZ(A)ANTHRACENE	56-55-3	2.23E-05	1.61E-05	2.23E-05	2.19E-05

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
BENZENE	71-43-2	7.93E-21	4.71E-19	7.93E-21	2.96E-21
BENZO(A)PYRENE	50-32-8	3.93E-04	3.09E-04	3.93E-04	3.86E-04
BENZO(B)FLUORANTHENE	205-99-2	3.16E-06	2.29E-06	3.16E-06	3.11E-06
BENZO(K)FLUORANTHENE	207-08-9	2.59E-04	1.88E-04	2.59E-04	2.54E-04
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.88E-07	1.42E-07	1.88E-07	1.85E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	3.84E+00	2.79E+00	3.84E+00	3.78E+00
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	5.82E-07	4.23E-07	5.82E-07	5.72E-07
CARBON TETRACHLORIDE	56-23-5	5.70E-23	3.38E-21	5.70E-23	2.13E-23
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	8.55E-24	5.08E-22	8.55E-24	3.19E-24
CHROMIUM	7440-47-3	1.79E-04	1.30E-04	1.79E-04	1.76E-04
CHRYSENE	218-01-9	2.27E-05	1.65E-05	2.27E-05	2.23E-05
COPPER	7440-50-8	1.98E-05	1.43E-05	1.98E-05	1.94E-05
CROTONALDEHYDE	123-73-9	7.11E-18	5.16E-18	7.11E-18	6.99E-18
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	2.77E-05	2.01E-05	2.77E-05	2.72E-05
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
DIETHYL PHTHALATE	84-66-2	6.25E-21	3.66E-19	6.25E-21	2.30E-21
DIMETHYL PHTHALATE	131-11-3	7.83E-22	4.65E-20	7.83E-22	2.92E-22
DI-N-BUTYL PHTHALATE	84-74-2	3.13E-05	2.27E-05	3.13E-05	3.08E-05
DI-N-OCTYL PHTHALATE	117-84-0	2.25E+03	1.63E+03	2.25E+03	2.21E+03
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	2.02E-20	1.21E-18	2.02E-20	7.61E-21
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	1.48E-20	0.00E+00	9.31E-23
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	3.83E-04	2.77E-04	3.83E-04	3.76E-04
LEAD	7439-92-1	5.60E-04	4.44E-04	5.60E-04	5.51E-04
MANGANESE	7439-96-5	4.62E-11	3.35E-11	4.62E-11	4.54E-11
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	1.09E-22	6.48E-21	1.09E-22	4.08E-23
METHYL ISOBUTYL KETONE	108-10-1	1.19E-22	7.07E-21	1.19E-22	4.45E-23
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	4.47E-22	2.65E-20	4.47E-22	1.67E-22
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	1.25E-20	7.40E-19	1.25E-20	4.66E-21
NAPHTHALENE	91-20-3	6.27E-19	3.72E-17	6.27E-19	2.34E-19
O-XYLENE	95-47-6	6.72E-21	3.99E-19	6.72E-21	2.51E-21
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.30E-20	7.69E-19	1.30E-20	4.84E-21
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	1.82E-10	1.62E-08	1.82E-10	1.79E-10
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 26 - Terrestrial Food Item Concentrations: Propellant 8,000 lbs. Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	2.18E-20	1.28E-18	2.18E-20	8.04E-21
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	6.03E-07	4.41E-07	6.03E-07	5.93E-07

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.64E-11	0.00E+00	0.00E+00	0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6	1.62E-12	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	1.17E-15	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	3.56E-04	2.14E-06	4.57E-17	6.84E-17
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.50E-10	0.00E+00	1.06E-12	1.38E-16
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	0.00E+00	0.00E+00	8.67E-23	3.54E-23
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	4.88E-04	9.21E-24	0.00E+00	0.00E+00
AMMONIA	7664-41-7	1.67E-13	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	6.95E-11	4.92E-10	0.00E+00	8.21E-17
ARSENIC	7440-38-2	1.38E-03	0.00E+00	0.00E+00	2.92E-11
BARIUM	7440-39-3	4.22E-04	3.69E-07	0.00E+00	7.46E-13
BENZ(A)ANTHRACENE	56-55-3	1.73E-05	3.37E-08	0.00E+00	0.00E+00
BENZENE	71-43-2	9.56E-06	1.60E-05	2.46E-16	2.75E-15

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
BENZO(A)PYRENE	50-32-8	1.30E-04	1.42E-05	4.18E-11	1.02E-10
BENZO(B)FLUORANTHENE	205-99-2	3.71E-05	0.00E+00	0.00E+00	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9	1.18E-04	1.50E-08	0.00E+00	0.00E+00
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	2.12E-05	1.18E-08	0.00E+00	2.25E-13
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	8.72E-04	0.00E+00	8.97E-09	9.21E-09
BUTYLBENZYLPHTHALATE	85-68-7	1.01E-05	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.32E-04	0.00E+00	1.87E-10	1.67E-13
CARBON TETRACHLORIDE	56-23-5	0.00E+00	0.00E+00	2.91E-23	1.21E-23
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	0.00E+00	0.00E+00	4.37E-24	1.81E-24
CHROMIUM	7440-47-3	9.29E-05	7.06E-07	0.00E+00	0.00E+00
CHRYSENE	218-01-9	4.53E-05	0.00E+00	0.00E+00	0.00E+00
COPPER	7440-50-8	2.05E-01	1.51E-06	0.00E+00	0.00E+00
CROTONALDEHYDE	123-73-9	1.09E-13	7.04E-15	0.00E+00	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	2.41E-05	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	3.06E-04	0.00E+00	0.00E+00	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	0.00E+00	0.00E+00	3.19E-21	1.31E-21
DIMETHYL PHTHALATE	131-11-3	0.00E+00	0.00E+00	4.00E-22	1.66E-22

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
DI-N-BUTYL PHTHALATE	84-74-2	1.17E-05	3.68E-05	9.64E-14	2.35E-13
DI-N-OCTYL PHTHALATE	117-84-0	2.87E-04	0.00E+00	9.23E-09	9.70E-09
ETHYL ACRYLATE	140-88-5	3.89E-17	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	6.69E-07	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	1.03E-20	4.32E-21
HEXACHLOROBENZENE	118-74-1	2.29E-07	1.72E-01	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	1.02E-11	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	0.00E+00	0.00E+00	5.29E-23
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	6.24E-12	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	6.55E-14	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	2.38E-03	0.00E+00	0.00E+00	0.00E+00
LEAD	7439-92-1	6.77E-01	0.00E+00	0.00E+00	2.15E-09
MANGANESE	7439-96-5	2.28E-05	9.66E-20	0.00E+00	0.00E+00
MERCURIC CHLORIDE	7487-94-7	1.84E-05	1.63E-04	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	0.00E+00	0.00E+00	5.58E-23	2.31E-23
METHYL ISOBUTYL KETONE	108-10-1	0.00E+00	0.00E+00	6.09E-23	2.52E-23

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	0.00E+00	0.00E+00	2.28E-22	9.47E-23
METHYLNAPHTHALENE, 2-	91-57-6	2.93E-09	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	5.68E-05	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	0.00E+00	0.00E+00	6.37E-21	2.64E-21
NAPHTHALENE	91-20-3	1.22E-10	0.00E+00	3.83E-19	3.14E-19
O-XYLENE	95-47-6	1.46E-08	5.80E-06	6.01E-18	2.42E-16
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	2.12E-11	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	3.51E-15	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	9.19E-20	3.65E-17	6.62E-21	2.75E-21
PYRENE	129-00-0	1.27E-06	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	8.42E-05	0.00E+00	0.00E+00	2.67E-12
STRONTIUM	7440-24-6	1.01E-04	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
TIN	7440-31-5	6.11E-05	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	0.00E+00	0.00E+00	1.11E-20	4.56E-21
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	5.04E-04	5.24E-10	5.71E-11	4.79E-13

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	1.54E-06	1.11E-06	1.54E-06	1.51E-06
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	8.60E-13	5.21E-13	8.60E-13	3.54E-19
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	3.93E-23	2.30E-21	3.93E-23	1.45E-23
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	6.60E-24	4.79E-24	6.60E-24	6.49E-24
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	3.53E-10	2.66E-10	3.53E-10	3.47E-10
ARSENIC	7440-38-2	0.00E+00	1.10E-07	0.00E+00	7.50E-14
BARIUM	7440-39-3	2.65E-07	2.03E-07	2.65E-07	2.60E-07
BENZ(A)ANTHRACENE	56-55-3	2.13E-07	1.54E-07	2.13E-07	2.09E-07
BENZENE	71-43-2	1.15E-05	8.32E-06	1.15E-05	1.13E-05

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
BENZO(A)PYRENE	50-32-8	1.12E-04	8.79E-05	1.12E-04	1.10E-04
BENZO(B)FLUORANTHENE	205-99-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9	1.18E-07	8.57E-08	1.18E-07	1.16E-07
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	8.44E-09	7.14E-09	8.44E-09	8.29E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	7.28E-09	3.48E-05	7.28E-09	2.37E-11
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.51E-10	6.32E-10	1.51E-10	4.29E-16
CARBON TETRACHLORIDE	56-23-5	1.32E-23	7.84E-22	1.32E-23	4.93E-24
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	1.98E-24	1.18E-22	1.98E-24	7.41E-25
CHROMIUM	7440-47-3	5.06E-07	3.67E-07	5.06E-07	4.98E-07
CHRYSENE	218-01-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COPPER	7440-50-8	1.08E-06	7.87E-07	1.08E-06	1.07E-06
CROTONALDEHYDE	123-73-9	5.05E-15	3.66E-15	5.05E-15	4.96E-15
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	1.73E-05	1.26E-05	1.73E-05	1.70E-05
DIBENZ(A,H)ANTHRACENE	53-70-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIETHYL PHTHALATE	84-66-2	1.45E-21	8.49E-20	1.45E-21	5.34E-22
DIMETHYL PHTHALATE	131-11-3	1.82E-22	1.08E-20	1.82E-22	6.78E-23

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
DI-N-BUTYL PHTHALATE	84-74-2	4.75E-05	3.45E-05	4.75E-05	4.67E-05
DI-N-OCTYL PHTHALATE	117-84-0	7.49E-09	3.67E-05	7.49E-09	2.49E-11
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	4.69E-21	2.81E-19	4.69E-21	1.77E-21
HEXACHLOROBENZENE	118-74-1	9.85E-01	7.14E-01	9.85E-01	9.68E-01
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	3.43E-21	0.00E+00	2.16E-23
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAD	7439-92-1	0.00E+00	8.12E-06	0.00E+00	5.51E-12
MANGANESE	7439-96-5	6.92E-20	5.02E-20	6.92E-20	6.81E-20
MERCURIC CHLORIDE	7487-94-7	1.17E-04	8.50E-05	1.17E-04	1.15E-04
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	2.53E-23	1.50E-21	2.53E-23	9.45E-24
METHYL ISOBUTYL KETONE	108-10-1	2.76E-23	1.64E-21	2.76E-23	1.03E-23

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.04E-22	6.15E-21	1.04E-22	3.87E-23
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	2.89E-21	1.72E-19	2.89E-21	1.08E-21
NAPHTHALENE	91-20-3	1.96E-19	1.37E-14	1.96E-19	1.47E-19
O-XYLENE	95-47-6	4.16E-06	3.02E-06	4.16E-06	4.09E-06
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	2.62E-17	1.92E-17	2.62E-17	2.58E-17
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	0.00E+00	1.01E-08	0.00E+00	6.85E-15
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 27 - Terrestrial Food Item Concentrations: Skid Burn Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	5.06E-21	2.96E-19	5.06E-21	1.86E-21
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	4.22E-10	2.09E-09	4.22E-10	3.70E-10

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.06E-12	5.29E-11	0.00E+00	0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6	2.02E-13	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	1.45E-16	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	0.00E+00	0.00E+00	5.87E-25	2.53E-25
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.86E-11	4.45E-09	1.32E-13	4.30E-15
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	0.00E+00	0.00E+00	4.35E-23	1.78E-23
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	6.08E-05	3.35E-07	0.00E+00	0.00E+00
AMMONIA	7664-41-7	2.07E-14	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	0.00E+00	0.00E+00	5.66E-22
ARSENIC	7440-38-2	1.72E-04	1.91E-09	0.00E+00	3.64E-12
BARIUM	7440-39-3	5.25E-05	1.15E-10	0.00E+00	8.31E-14
BENZ(A)ANTHRACENE	56-55-3	2.24E-06	1.10E-06	0.00E+00	0.00E+00

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
BENZENE	71-43-2	0.00E+00	0.00E+00	2.03E-21	8.43E-22
BENZO(A)PYRENE	50-32-8	1.62E-05	1.56E-05	5.20E-12	6.91E-11
BENZO(B)FLUORANTHENE	205-99-2	4.60E-06	1.57E-07	0.00E+00	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9	1.47E-05	1.03E-05	0.00E+00	0.00E+00
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	2.64E-06	8.20E-08	0.00E+00	3.83E-14
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.09E-04	1.40E-01	1.12E-09	4.15E-09
BUTYLBENZYLPHTHALATE	85-68-7	1.26E-06	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.64E-05	2.53E-07	2.32E-11	2.12E-14
CARBON TETRACHLORIDE	56-23-5	0.00E+00	0.00E+00	1.46E-23	6.06E-24
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	0.00E+00	0.00E+00	2.19E-24	9.09E-25
CHROMIUM	7440-47-3	1.90E-05	7.79E-05	0.00E+00	0.00E+00
CHRYSENE	218-01-9	5.68E-06	1.12E-06	0.00E+00	0.00E+00
COPPER	7440-50-8	2.56E-02	8.61E-06	0.00E+00	0.00E+00
CROTONALDEHYDE	123-73-9	3.77E-15	3.10E-18	0.00E+00	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	3.79E-05	8.63E-07	0.00E+00	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
DIETHYL PHTHALATE	84-66-2	0.00E+00	0.00E+00	1.60E-21	6.56E-22
DIMETHYL PHTHALATE	131-11-3	0.00E+00	0.00E+00	2.01E-22	8.32E-23
DI-N-BUTYL PHTHALATE	84-74-2	1.46E-06	7.58E-06	1.20E-14	4.05E-14
DI-N-OCTYL PHTHALATE	117-84-0	3.57E-05	1.34E+02	1.15E-09	5.07E-09
ETHYL ACRYLATE	140-88-5	4.84E-18	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	8.32E-08	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	5.19E-21	2.17E-21
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	1.27E-12	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	0.00E+00	0.00E+00	2.65E-23
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	7.76E-13	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	8.15E-15	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	2.95E-04	1.19E-05	0.00E+00	0.00E+00
LEAD	7439-92-1	8.44E-02	2.44E-04	0.00E+00	3.36E-10
MANGANESE	7439-96-5	2.84E-06	2.01E-11	0.00E+00	0.00E+00
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	0.00E+00	0.00E+00	2.80E-23	1.16E-23
METHYL ISOBUTYL KETONE	108-10-1	0.00E+00	0.00E+00	3.05E-23	1.27E-23
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	0.00E+00	0.00E+00	1.15E-22	4.75E-23
METHYLNAPHTHALENE, 2-	91-57-6	3.65E-10	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	7.08E-06	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	0.00E+00	0.00E+00	3.20E-21	1.33E-21
NAPHTHALENE	91-20-3	0.00E+00	0.00E+00	1.61E-19	6.66E-20
O-XYLENE	95-47-6	0.00E+00	0.00E+00	1.72E-21	7.14E-22
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	2.64E-12	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	4.37E-16	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	0.00E+00	0.00E+00	3.32E-21	1.38E-21
PYRENE	129-00-0	1.58E-07	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	1.05E-05	7.93E-11	0.00E+00	3.32E-13
STRONTIUM	7440-24-6	1.26E-05	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Terrestrial Plants**	**Soil Invertebrates**	**Herbivorous Birds**	**Herbivorous Mammals**
SULFURIC ACID	7664-93-9	4.33E-02	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	7.60E-06	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	0.00E+00	0.00E+00	5.59E-21	2.29E-21
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	6.28E-05	2.63E-07	7.11E-12	6.07E-14

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.31E-10	3.85E-10	5.31E-10	5.22E-10
1,2,4-TRIMETHYLBENZENE	95-63-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-BUTADIENE	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-DIOXANE	123-91-1	2.66E-25	1.64E-23	2.66E-25	1.03E-25
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.47E-08	3.29E-08	4.47E-08	4.39E-08
2-NITROPHENOL	88-75-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACENAPHTHENE	83-32-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETALDEHYDE	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACETONE	67-64-1	1.97E-23	1.15E-21	1.97E-23	7.25E-24
ACETONITRILE	75-05-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACROLEIN	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACRYLONITRILE	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	7429-90-5	2.40E-07	1.74E-07	2.40E-07	2.36E-07
AMMONIA	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTHRACENE	120-12-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ANTIMONY	7440-36-0	0.00E+00	3.68E-20	0.00E+00	2.31E-22
ARSENIC	7440-38-2	1.37E-09	1.49E-08	1.37E-09	1.35E-09
BARIUM	7440-39-3	8.27E-11	3.77E-10	8.27E-11	8.13E-11
BENZ(A)ANTHRACENE	56-55-3	6.96E-06	5.05E-06	6.96E-06	6.84E-06

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
BENZENE	71-43-2	9.22E-22	5.48E-20	9.22E-22	3.44E-22
BENZO(A)PYRENE	50-32-8	1.23E-04	9.65E-05	1.23E-04	1.21E-04
BENZO(B)FLUORANTHENE	205-99-2	9.88E-07	7.17E-07	9.88E-07	9.72E-07
BENZO(K)FLUORANTHENE	207-08-9	8.09E-05	5.87E-05	8.09E-05	7.95E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	5.88E-08	4.40E-08	5.88E-08	5.78E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.20E+00	8.72E-01	1.20E+00	1.18E+00
BUTYLBENZYLPHTHALATE	85-68-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CADMIUM	7440-43-9	1.82E-07	1.32E-07	1.82E-07	1.79E-07
CARBON TETRACHLORIDE	56-23-5	6.62E-24	3.93E-22	6.62E-24	2.47E-24
CHLOROETHANE	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CHLOROFORM	67-66-3	9.95E-25	5.90E-23	9.95E-25	3.71E-25
CHROMIUM	7440-47-3	5.59E-05	4.05E-05	5.59E-05	5.50E-05
CHRYSENE	218-01-9	7.10E-06	5.15E-06	7.10E-06	6.98E-06
COPPER	7440-50-8	6.18E-06	4.48E-06	6.18E-06	6.07E-06
CROTONALDEHYDE	123-73-9	2.22E-18	1.61E-18	2.22E-18	2.19E-18
CUMENE (ISOPROPYLBENZENE)	98-82-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CYANIDE	57-12-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3	8.66E-06	6.28E-06	8.66E-06	8.52E-06
DICHLORODIFLUOROMETHANE	75-71-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
DIETHYL PHTHALATE	84-66-2	7.26E-22	4.26E-20	7.26E-22	2.68E-22
DIMETHYL PHTHALATE	131-11-3	9.10E-23	5.41E-21	9.10E-23	3.40E-23
DI-N-BUTYL PHTHALATE	84-74-2	9.78E-06	7.10E-06	9.78E-06	9.62E-06
DI-N-OCTYL PHTHALATE	117-84-0	7.03E+02	5.10E+02	7.03E+02	6.91E+02
ETHYL ACRYLATE	140-88-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETHYLBENZENE	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FLUORANTHENE	206-44-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FORMALDEHYDE	50-00-0	2.35E-21	1.41E-19	2.35E-21	8.85E-22
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.00E+00	1.72E-21	0.00E+00	1.08E-23
HYDROGEN CHLORIDE	7647-01-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN CYANIDE	74-90-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HYDROGEN FLOURIDE	7664-39-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5	1.20E-04	8.67E-05	1.20E-04	1.18E-04
LEAD	7439-92-1	1.75E-04	1.36E-04	1.75E-04	1.72E-04
MANGANESE	7439-96-5	1.44E-11	1.05E-11	1.44E-11	1.42E-11
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
METHYL CHLORIDE	74-87-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL ETHYL KETONE	78-93-3	1.27E-23	7.54E-22	1.27E-23	4.74E-24
METHYL ISOBUTYL KETONE	108-10-1	1.38E-23	8.22E-22	1.38E-23	5.17E-24
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	5.20E-23	3.09E-21	5.20E-23	1.94E-23
METHYLNAPHTHALENE, 2-	91-57-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MOLYBDENUM	7439-98-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
M-XYLENE	108-38-3	1.45E-21	8.61E-20	1.45E-21	5.41E-22
NAPHTHALENE	91-20-3	7.29E-20	4.33E-18	7.29E-20	2.72E-20
O-XYLENE	95-47-6	7.81E-22	4.64E-20	7.81E-22	2.92E-22
PHENANTHRENE	85-01-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHENOL	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PHOSPHOROUS	7723-14-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PROPIONALDEHYDE	123-38-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-XYLENE	106-42-3	1.51E-21	8.94E-20	1.51E-21	5.62E-22
PYRENE	129-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PYRIDINE	110-86-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SILVER	7440-22-4	5.69E-11	1.30E-09	5.69E-11	5.59E-11
STRONTIUM	7440-24-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
STYRENE	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 28 - Terrestrial Food Item Concentrations: Skid Burn 183 Day Scenario (mg/kg)					
COPC	**CAS**	**Omnivorous Birds**	**Omnivorous Mammals**	**Insectivorous Birds**	**Insectivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOLUENE	108-88-3	2.54E-21	1.49E-19	2.54E-21	9.35E-22
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZINC	7440-66-6	1.89E-07	1.37E-07	1.89E-07	1.85E-07

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.06E-16	1.92E-13	9.54E-14	1.37E-10
1,2,4-TRIMETHYLBENZENE	95-63-6	9.00E-17	3.67E-16	5.74E-16	2.37E-14
1,3,5-TRIMETHYLBENZENE	108-67-8	2.27E-15	3.66E-15	2.44E-15	1.45E-15
1,3-BUTADIENE	106-99-0	1.30E-14	2.10E-14	1.40E-14	8.32E-15
1,4-DIOXANE	123-91-1	1.05E-15	1.69E-15	1.13E-15	6.70E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	9.08E-15	2.04E-12	7.78E-12	1.62E-09
2-NITROPHENOL	88-75-5	1.52E-19	2.46E-19	1.64E-19	9.72E-20
ACENAPHTHENE	83-32-9	1.98E-13	3.21E-13	2.14E-13	1.27E-13
ACETALDEHYDE	75-07-0	7.59E-14	1.23E-13	8.18E-14	4.85E-14
ACETONE	67-64-1	4.61E-14	7.44E-14	4.96E-14	2.94E-14
ACETONITRILE	75-05-8	1.28E-14	2.06E-14	1.38E-14	8.16E-15
ACROLEIN	107-02-8	1.59E-13	2.57E-13	1.71E-13	1.01E-13
ACRYLONITRILE	107-13-1	5.28E-16	8.52E-16	5.68E-16	3.37E-16
ALUMINUM	7429-90-5	2.71E-08	1.49E-07	1.74E-07	3.43E-05
AMMONIA	7664-41-7	1.24E-16	2.23E-16	1.82E-16	2.52E-15
ANTHRACENE	120-12-7	3.88E-17	6.26E-17	4.17E-17	2.47E-17
ANTIMONY	7440-36-0	9.65E-12	1.56E-11	1.04E-11	6.16E-12
ARSENIC	7440-38-2	7.68E-08	3.13E-07	4.90E-07	2.02E-05
BARIUM	7440-39-3	2.34E-08	9.56E-08	1.49E-07	6.16E-06
BENZ(A)ANTHRACENE	56-55-3	6.81E-10	4.51E-08	6.26E-09	3.00E-05

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZENE	71-43-2	1.50E-13	2.43E-13	1.62E-13	9.61E-14
BENZO(A)PYRENE	50-32-8	3.01E-09	9.37E-08	4.63E-08	5.89E-05
BENZO(B)FLUORANTHENE	205-99-2	5.95E-10	5.00E-09	4.07E-09	1.98E-06
BENZO(K)FLUORANTHENE	207-08-9	2.29E-09	1.57E-07	3.24E-08	1.05E-04
BENZYL CHLORIDE	100-44-7	1.51E-13	2.44E-13	1.63E-13	9.64E-14
BERYLLIUM	7440-41-7	1.18E-09	5.24E-09	7.66E-09	6.16E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	4.85E-08	3.21E-07	2.43E-04	6.36E-03
BUTYLBENZYLPHTHALATE	85-68-7	5.61E-10	2.72E-09	3.57E-09	4.52E-07
CADMIUM	7440-43-9	7.33E-09	3.00E-08	4.72E-08	2.02E-06
CARBON TETRACHLORIDE	56-23-5	9.15E-17	1.48E-16	9.85E-17	5.84E-17
CHLOROETHANE	75-00-3	2.49E-17	4.02E-17	2.68E-17	1.59E-17
CHLOROFORM	67-66-3	2.08E-12	3.35E-12	2.24E-12	1.33E-12
CHROMIUM	7440-47-3	5.99E-09	1.82E-06	1.74E-07	1.27E-03
CHRYSENE	218-01-9	9.10E-10	3.61E-08	7.76E-09	2.31E-05
COPPER	7440-50-8	1.14E-05	4.67E-05	7.27E-05	3.08E-03
CROTONALDEHYDE	123-73-9	1.07E-17	2.15E-17	2.04E-17	4.58E-16
CUMENE (ISOPROPYLBENZENE)	98-82-8	4.12E-13	6.65E-13	4.44E-13	2.63E-13
CYANIDE	57-12-5	2.67E-13	4.31E-13	2.87E-13	1.70E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	4.78E-09	3.37E-08	3.20E-08	1.13E-05
DICHLORODIFLUOROMETHANE	75-71-8	5.68E-15	9.18E-15	6.12E-15	3.63E-15

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	5.70E-15	9.20E-15	6.13E-15	3.64E-15
DIMETHYL PHTHALATE	131-11-3	1.33E-15	2.15E-15	1.43E-15	8.51E-16
DI-N-BUTYL PHTHALATE	84-74-2	6.52E-10	4.12E-09	1.73E-08	1.54E-06
DI-N-OCTYL PHTHALATE	117-84-0	1.59E-08	1.14E-07	2.34E-01	6.02E+00
ETHYL ACRYLATE	140-88-5	4.70E-12	7.60E-12	5.07E-12	3.00E-12
ETHYLBENZENE	100-41-4	1.25E-11	2.01E-11	1.34E-11	7.96E-12
FLUORANTHENE	206-44-0	3.95E-11	1.97E-09	2.39E-10	1.29E-06
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1	1.15E-22	1.85E-22	1.23E-22	7.32E-23
HEXANE, N-	110-54-3	1.76E-15	4.25E-15	4.91E-15	1.50E-13
HEXAVALENT CHROMIUM	18540-29-9	8.13E-14	1.31E-13	8.76E-14	5.19E-14
HYDROGEN CHLORIDE	7647-01-0	6.69E-13	1.08E-12	7.21E-13	4.27E-13
HYDROGEN CYANIDE	74-90-8	6.76E-14	1.10E-13	7.46E-14	1.91E-13
HYDROGEN FLOURIDE	7664-39-3	4.09E-13	6.60E-13	4.40E-13	2.62E-13
INDENO(1,2,3-CD)PYRENE	193-39-5	3.79E-08	3.26E-07	2.63E-07	1.31E-04
LEAD	7439-92-1	3.76E-05	1.63E-04	2.40E-04	1.65E-02
MANGANESE	7439-96-5	1.27E-09	5.18E-09	8.08E-09	3.35E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	3.83E-16	6.19E-16	4.13E-16	2.45E-16

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL CHLORIDE	74-87-3	1.59E-14	2.57E-14	1.71E-14	1.01E-14
METHYL ETHYL KETONE	78-93-3	1.73E-15	2.80E-15	1.87E-15	1.11E-15
METHYL ISOBUTYL KETONE	108-10-1	1.63E-14	2.63E-14	1.75E-14	1.04E-14
METHYL MERCURY	22967-92-6	4.80E-09	7.75E-09	5.17E-09	3.06E-09
METHYLENE CHLORIDE	75-09-2	9.12E-14	1.47E-13	9.82E-14	5.82E-14
METHYLNAPHTHALENE, 2-	91-57-6	1.45E-09	2.34E-09	1.56E-09	2.31E-09
MOLYBDENUM	7439-98-7	3.16E-09	1.29E-08	2.01E-08	8.72E-07
M-XYLENE	108-38-3	1.22E-15	1.97E-15	1.32E-15	7.80E-16
NAPHTHALENE	91-20-3	2.57E-15	4.16E-15	2.77E-15	1.64E-15
O-XYLENE	95-47-6	2.36E-15	3.81E-15	2.54E-15	1.50E-15
PHENANTHRENE	85-01-8	2.35E-14	3.80E-14	2.54E-14	1.50E-14
PHENOL	108-95-2	2.45E-14	3.95E-14	2.63E-14	1.56E-14
PHOSPHOROUS	7723-14-0	1.44E-14	2.62E-14	2.17E-14	3.22E-13
PROPIONALDEHYDE	123-38-6	7.12E-13	1.15E-12	7.67E-13	4.55E-13
P-XYLENE	106-42-3	3.55E-12	5.73E-12	3.82E-12	2.27E-12
PYRENE	129-00-0	7.06E-11	1.48E-08	4.50E-10	1.02E-05
PYRIDINE	110-86-1	5.87E-13	9.48E-13	6.32E-13	3.75E-13
SILVER	7440-22-4	4.68E-09	1.91E-08	2.98E-08	1.23E-06
STRONTIUM	7440-24-6	5.61E-09	2.30E-08	3.58E-08	1.52E-06
STYRENE	100-42-5	1.43E-17	2.31E-17	1.54E-17	9.13E-18

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
SULFURIC ACID	7664-93-9	4.40E-13	7.10E-13	4.73E-13	2.81E-13
TETRACHLOROETHYLENE	127-18-4	1.09E-15	1.76E-15	1.17E-15	6.94E-16
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	1.98E-14	3.20E-14	2.13E-14	1.27E-14
TIN	7440-31-5	3.39E-09	1.46E-08	2.16E-08	1.46E-06
TOLUENE	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	1.09E-17	1.75E-17	1.17E-17	6.93E-18
TRICHLOROFLUOROMETHANE	75-69-4	3.24E-16	5.23E-16	3.49E-16	2.07E-16
ZINC	7440-66-6	2.80E-08	1.15E-07	1.79E-07	7.71E-06

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.30E-13	3.84E-15	1.09E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	4.31E-17	0.00E+00	6.26E-25
1,3,5-TRIMETHYLBENZENE	108-67-8	3.89E-15	1.03E-14	1.50E-15
1,3-BUTADIENE	106-99-0	2.23E-14	5.90E-14	8.60E-15
1,4-DIOXANE	123-91-1	1.80E-15	4.76E-15	6.94E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	7.28E-12	3.41E-13	1.58E-12
2-NITROPHENOL	88-75-5	2.61E-19	6.91E-19	1.01E-19
ACENAPHTHENE	83-32-9	3.40E-13	9.01E-13	1.31E-13
ACETALDEHYDE	75-07-0	1.30E-13	3.45E-13	5.02E-14
ACETONE	67-64-1	7.91E-14	2.09E-13	3.05E-14
ACETONITRILE	75-05-8	2.19E-14	5.80E-14	8.46E-15
ACROLEIN	107-02-8	2.73E-13	7.21E-13	1.05E-13
ACRYLONITRILE	107-13-1	9.05E-16	2.39E-15	3.49E-16
ALUMINUM	7429-90-5	9.28E-08	8.57E-11	2.10E-08
AMMONIA	7664-41-7	2.01E-16	5.19E-16	7.57E-17
ANTHRACENE	120-12-7	6.65E-17	1.76E-16	2.56E-17
ANTIMONY	7440-36-0	1.65E-11	4.38E-11	6.38E-12
ARSENIC	7440-38-2	3.69E-08	1.34E-11	1.28E-11
BARIUM	7440-39-3	1.12E-08	1.05E-13	3.63E-12
BENZ(A)ANTHRACENE	56-55-3	8.85E-08	5.19E-11	2.31E-08

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZENE	71-43-2	2.58E-13	6.83E-13	9.96E-14
BENZO(A)PYRENE	50-32-8	1.81E-07	8.85E-10	4.57E-08
BENZO(B)FLUORANTHENE	205-99-2	5.71E-09	8.06E-12	1.41E-09
BENZO(K)FLUORANTHENE	207-08-9	3.13E-07	5.83E-10	8.11E-08
BENZYL CHLORIDE	100-44-7	2.59E-13	6.85E-13	9.99E-14
BERYLLIUM	7440-41-7	1.51E-09	1.10E-12	2.34E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	9.78E-05	8.65E-06	1.30E-05
BUTYLBENZYLPHTHALATE	85-68-7	1.16E-09	4.21E-12	2.36E-10
CADMIUM	7440-43-9	3.94E-09	1.31E-12	6.87E-11
CARBON TETRACHLORIDE	56-23-5	1.57E-16	4.15E-16	6.05E-17
CHLOROETHANE	75-00-3	4.27E-17	1.13E-16	1.65E-17
CHLOROFORM	67-66-3	3.56E-12	9.42E-12	1.37E-12
CHROMIUM	7440-47-3	3.76E-06	4.03E-10	9.77E-07
CHRYSENE	218-01-9	6.81E-08	5.11E-11	1.77E-08
COPPER	7440-50-8	5.70E-06	4.52E-11	6.00E-08
CROTONALDEHYDE	123-73-9	1.64E-17	4.11E-17	6.00E-18
CUMENE (ISOPROPYLBENZENE)	98-82-8	7.07E-13	1.87E-12	2.73E-13
CYANIDE	57-12-5	4.58E-13	1.21E-12	1.77E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	3.22E-08	6.24E-11	7.81E-09
DICHLORODIFLUOROMETHANE	75-71-8	9.74E-15	2.58E-14	3.76E-15

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	9.77E-15	2.58E-14	3.77E-15
DIMETHYL PHTHALATE	131-11-3	2.29E-15	6.05E-15	8.81E-16
DI-N-BUTYL PHTHALATE	84-74-2	8.64E-09	8.93E-11	9.06E-10
DI-N-OCTYL PHTHALATE	117-84-0	9.38E-02	5.06E-03	7.55E-03
ETHYL ACRYLATE	140-88-5	8.07E-12	2.13E-11	3.11E-12
ETHYLBENZENE	100-41-4	2.14E-11	5.66E-11	8.25E-12
FLUORANTHENE	206-44-0	3.77E-09	1.07E-11	9.89E-10
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1	1.97E-22	5.20E-22	7.58E-23
HEXANE, N-	110-54-3	2.32E-15	5.41E-15	7.88E-16
HEXAVALENT CHROMIUM	18540-29-9	1.39E-13	3.69E-13	5.38E-14
HYDROGEN CHLORIDE	7647-01-0	1.15E-12	3.04E-12	4.43E-13
HYDROGEN CYANIDE	74-90-8	1.16E-13	3.05E-13	4.45E-14
HYDROGEN FLOURIDE	7664-39-3	7.01E-13	1.85E-12	2.70E-13
INDENO(1,2,3-CD)PYRENE	193-39-5	3.81E-07	8.62E-10	9.45E-08
LEAD	7439-92-1	3.76E-05	1.26E-09	5.10E-06
MANGANESE	7439-96-5	6.18E-10	1.61E-11	3.61E-12
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	6.57E-16	1.74E-15	2.54E-16

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
METHYL CHLORIDE	74-87-3	2.72E-14	7.21E-14	1.05E-14
METHYL ETHYL KETONE	78-93-3	2.97E-15	7.86E-15	1.15E-15
METHYL ISOBUTYL KETONE	108-10-1	2.79E-14	7.38E-14	1.08E-14
METHYL MERCURY	22967-92-6	8.23E-09	2.18E-08	3.17E-09
METHYLENE CHLORIDE	75-09-2	1.56E-13	4.14E-13	6.03E-14
METHYLNAPHTHALENE, 2-	91-57-6	2.48E-09	6.56E-09	9.58E-10
MOLYBDENUM	7439-98-7	1.64E-09	4.28E-15	3.25E-11
M-XYLENE	108-38-3	2.10E-15	5.54E-15	8.08E-16
NAPHTHALENE	91-20-3	4.41E-15	1.17E-14	1.70E-15
O-XYLENE	95-47-6	4.04E-15	1.07E-14	1.56E-15
PHENANTHRENE	85-01-8	4.04E-14	1.07E-13	1.56E-14
PHENOL	108-95-2	4.20E-14	1.11E-13	1.62E-14
PHOSPHOROUS	7723-14-0	2.32E-14	6.00E-14	8.74E-15
PROPIONALDEHYDE	123-38-6	1.22E-12	3.23E-12	4.71E-13
P-XYLENE	106-42-3	6.09E-12	1.61E-11	2.35E-12
PYRENE	129-00-0	3.00E-08	8.49E-15	7.89E-09
PYRIDINE	110-86-1	1.01E-12	2.66E-12	3.88E-13
SILVER	7440-22-4	2.24E-09	3.26E-14	1.52E-13
STRONTIUM	7440-24-6	2.83E-09	0.00E+00	3.69E-11
STYRENE	100-42-5	2.45E-17	6.49E-17	9.46E-18

Table 29 - Aquatic Receptor Dose Concentrations: Propellant 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
SULFURIC ACID	7664-93-9	7.54E-13	2.00E-12	2.91E-13
TETRACHLOROETHYLENE	127-18-4	1.86E-15	4.93E-15	7.19E-16
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	3.40E-14	9.00E-14	1.31E-14
TIN	7440-31-5	3.28E-09	6.18E-20	4.37E-10
TOLUENE	108-88-3	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	1.86E-17	4.93E-17	7.19E-18
TRICHLOROFLUOROMETHANE	75-69-4	5.56E-16	1.47E-15	2.14E-16
ZINC	7440-66-6	1.46E-08	1.36E-12	2.63E-10

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.34E-14	5.17E-13	3.97E-13	2.82E-10
1,2,4-TRIMETHYLBENZENE	95-63-6	1.80E-16	7.35E-16	1.15E-15	4.73E-14
1,3,5-TRIMETHYLBENZENE	108-67-8	6.46E-16	1.04E-15	6.96E-16	4.13E-16
1,3-BUTADIENE	106-99-0	2.28E-16	3.69E-16	2.47E-16	1.80E-16
1,4-DIOXANE	123-91-1	2.66E-15	4.29E-15	2.86E-15	1.70E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.31E-14	4.17E-12	1.57E-11	3.25E-09
2-NITROPHENOL	88-75-5	5.13E-15	8.29E-15	5.53E-15	3.28E-15
ACENAPHTHENE	83-32-9	1.08E-15	1.74E-15	1.16E-15	6.89E-16
ACETALDEHYDE	75-07-0	3.96E-13	6.40E-13	4.26E-13	2.53E-13
ACETONE	67-64-1	1.51E-13	2.45E-13	1.63E-13	9.67E-14
ACETONITRILE	75-05-8	9.19E-14	1.48E-13	9.90E-14	5.87E-14
ACROLEIN	107-02-8	2.55E-14	4.12E-14	2.75E-14	1.63E-14
ACRYLONITRILE	107-13-1	3.17E-13	5.12E-13	3.41E-13	2.02E-13
ALUMINUM	7429-90-5	5.43E-08	2.99E-07	3.48E-07	6.87E-05
AMMONIA	7664-41-7	3.69E-11	5.96E-11	3.97E-11	2.36E-11
ANTHRACENE	120-12-7	1.05E-15	1.70E-15	1.13E-15	6.72E-16
ANTIMONY	7440-36-0	7.73E-17	1.25E-16	8.32E-17	4.93E-17
ARSENIC	7440-38-2	1.54E-07	6.29E-07	9.82E-07	4.05E-05
BARIUM	7440-39-3	4.69E-08	1.91E-07	2.99E-07	1.23E-05
BENZ(A)ANTHRACENE	56-55-3	1.36E-09	9.02E-08	1.25E-08	6.01E-05

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZENE	71-43-2	4.60E-14	7.44E-14	4.96E-14	2.94E-14
BENZO(A)PYRENE	50-32-8	5.98E-09	1.87E-07	9.24E-08	1.18E-04
BENZO(B)FLUORANTHENE	205-99-2	1.18E-09	9.96E-09	8.07E-09	3.96E-06
BENZO(K)FLUORANTHENE	207-08-9	4.54E-09	3.14E-07	6.47E-08	2.10E-04
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	2.36E-09	1.05E-08	1.54E-08	1.23E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	9.70E-08	6.41E-07	4.87E-04	1.27E-02
BUTYLBENZYLPHTHALATE	85-68-7	1.12E-09	5.44E-09	7.15E-09	9.05E-07
CADMIUM	7440-43-9	1.47E-08	6.02E-08	9.46E-08	4.06E-06
CARBON TETRACHLORIDE	56-23-5	3.31E-17	5.34E-17	3.56E-17	2.11E-17
CHLOROETHANE	75-00-3	1.83E-16	2.95E-16	1.97E-16	1.17E-16
CHLOROFORM	67-66-3	4.96E-17	8.02E-17	5.35E-17	3.17E-17
CHROMIUM	7440-47-3	1.20E-08	3.64E-06	3.48E-07	2.54E-03
CHRYSENE	218-01-9	1.81E-09	7.21E-08	1.54E-08	4.62E-05
COPPER	7440-50-8	2.28E-05	9.33E-05	1.45E-04	6.15E-03
CROTONALDEHYDE	123-73-9	2.59E-14	4.19E-14	2.79E-14	1.75E-14
CUMENE (ISOPROPYLBENZENE)	98-82-8	2.56E-16	4.13E-16	2.75E-16	1.63E-16
CYANIDE	57-12-5	8.22E-13	1.33E-12	8.85E-13	5.25E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	9.46E-09	6.70E-08	6.33E-08	2.26E-05
DICHLORODIFLUOROMETHANE	75-71-8	1.69E-17	2.74E-17	1.82E-17	1.08E-17

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	1.13E-14	1.83E-14	1.22E-14	7.23E-15
DIMETHYL PHTHALATE	131-11-3	1.14E-14	1.84E-14	1.22E-14	7.25E-15
DI-N-BUTYL PHTHALATE	84-74-2	1.30E-09	8.22E-09	3.47E-08	3.09E-06
DI-N-OCTYL PHTHALATE	117-84-0	3.19E-08	2.29E-07	4.68E-01	1.21E+01
ETHYL ACRYLATE	140-88-5	1.81E-17	2.92E-17	1.95E-17	1.27E-17
ETHYLBENZENE	100-41-4	2.09E-15	3.38E-15	2.25E-15	1.34E-15
FLUORANTHENE	206-44-0	7.46E-11	3.94E-09	4.75E-10	2.58E-06
FORMALDEHYDE	50-00-0	4.70E-12	7.59E-12	5.06E-12	3.00E-12
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	1.14E-15	4.65E-15	7.26E-15	2.99E-13
HEXAVALENT CHROMIUM	18540-29-9	6.58E-19	1.06E-18	7.08E-19	4.20E-19
HYDROGEN CHLORIDE	7647-01-0	2.29E-22	3.69E-22	2.46E-22	1.46E-22
HYDROGEN CYANIDE	74-90-8	9.38E-12	1.52E-11	1.01E-11	6.29E-12
HYDROGEN FLOURIDE	7664-39-3	1.34E-13	2.17E-13	1.45E-13	8.76E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	7.52E-08	6.50E-07	5.21E-07	2.63E-04
LEAD	7439-92-1	7.55E-05	3.27E-04	4.82E-04	3.31E-02
MANGANESE	7439-96-5	2.54E-09	1.04E-08	1.62E-08	6.71E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL CHLORIDE	74-87-3	7.64E-16	1.23E-15	8.23E-16	4.88E-16
METHYL ETHYL KETONE	78-93-3	3.17E-14	5.12E-14	3.41E-14	2.02E-14
METHYL ISOBUTYL KETONE	108-10-1	3.46E-15	5.58E-15	3.72E-15	2.21E-15
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	3.24E-14	5.24E-14	3.49E-14	2.07E-14
METHYLNAPHTHALENE, 2-	91-57-6	3.29E-13	5.15E-12	2.08E-12	2.78E-09
MOLYBDENUM	7439-98-7	6.33E-09	2.59E-08	4.03E-08	1.75E-06
M-XYLENE	108-38-3	4.52E-15	7.31E-15	4.87E-15	2.89E-15
NAPHTHALENE	91-20-3	1.82E-13	2.94E-13	1.96E-13	1.16E-13
O-XYLENE	95-47-6	2.44E-15	3.94E-15	2.62E-15	1.56E-15
PHENANTHRENE	85-01-8	8.19E-15	1.32E-14	8.82E-15	5.23E-15
PHENOL	108-95-2	4.70E-14	7.59E-14	5.06E-14	3.00E-14
PHOSPHOROUS	7723-14-0	4.24E-15	1.27E-14	1.71E-14	6.28E-13
PROPIONALDEHYDE	123-38-6	2.64E-14	4.26E-14	2.84E-14	1.69E-14
P-XYLENE	106-42-3	4.70E-15	7.59E-15	5.06E-15	3.00E-15
PYRENE	129-00-0	1.42E-10	2.96E-08	9.04E-10	2.05E-05
PYRIDINE	110-86-1	3.73E-15	6.03E-15	4.02E-15	2.38E-15
SILVER	7440-22-4	9.36E-09	3.82E-08	5.97E-08	2.46E-06
STRONTIUM	7440-24-6	1.12E-08	4.59E-08	7.15E-08	3.04E-06
STYRENE	100-42-5	1.41E-14	2.27E-14	1.52E-14	8.98E-15

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	2.85E-17	4.61E-17	3.07E-17	1.82E-17
TETRAHYDROFURAN	109-99-9	2.17E-15	3.50E-15	2.33E-15	1.38E-15
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	6.79E-09	2.93E-08	4.33E-08	2.92E-06
TOLUENE	108-88-3	3.95E-14	6.39E-14	4.26E-14	2.52E-14
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	2.17E-17	3.50E-17	2.33E-17	1.38E-17
ZINC	7440-66-6	5.61E-08	2.30E-07	3.59E-07	1.54E-05

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	8.77E-13	7.67E-15	2.19E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	8.64E-17	1.23E-19	1.80E-20
1,3,5-TRIMETHYLBENZENE	108-67-8	1.11E-15	2.93E-15	4.28E-16
1,3-BUTADIENE	106-99-0	3.92E-16	1.04E-15	1.51E-16
1,4-DIOXANE	123-91-1	4.56E-15	1.21E-14	1.76E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.46E-11	6.45E-13	3.16E-12
2-NITROPHENOL	88-75-5	8.81E-15	2.33E-14	3.40E-15
ACENAPHTHENE	83-32-9	1.85E-15	4.90E-15	7.14E-16
ACETALDEHYDE	75-07-0	6.79E-13	1.80E-12	2.62E-13
ACETONE	67-64-1	2.60E-13	6.87E-13	1.00E-13
ACETONITRILE	75-05-8	1.58E-13	4.17E-13	6.08E-14
ACROLEIN	107-02-8	4.37E-14	1.16E-13	1.69E-14
ACRYLONITRILE	107-13-1	5.44E-13	1.44E-12	2.10E-13
ALUMINUM	7429-90-5	1.86E-07	3.56E-11	4.20E-08
AMMONIA	7664-41-7	6.33E-11	1.67E-10	2.44E-11
ANTHRACENE	120-12-7	1.81E-15	4.78E-15	6.96E-16
ANTIMONY	7440-36-0	1.33E-16	3.51E-16	5.11E-17
ARSENIC	7440-38-2	7.40E-08	8.73E-11	3.46E-11
BARIUM	7440-39-3	2.25E-08	2.66E-11	1.11E-11
BENZ(A)ANTHRACENE	56-55-3	1.77E-07	1.02E-10	4.62E-08

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZENE	71-43-2	7.90E-14	2.09E-13	3.05E-14
BENZO(A)PYRENE	50-32-8	3.62E-07	1.78E-09	9.14E-08
BENZO(B)FLUORANTHENE	205-99-2	1.14E-08	1.44E-11	2.83E-09
BENZO(K)FLUORANTHENE	207-08-9	6.27E-07	1.17E-09	1.62E-07
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	3.02E-09	2.22E-12	4.69E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.96E-04	1.73E-05	2.60E-05
BUTYLBENZYLPHTHALATE	85-68-7	2.33E-09	1.34E-12	4.72E-10
CADMIUM	7440-43-9	7.91E-09	1.10E-11	1.39E-10
CARBON TETRACHLORIDE	56-23-5	5.67E-17	1.50E-16	2.19E-17
CHLOROETHANE	75-00-3	3.13E-16	8.28E-16	1.21E-16
CHLOROFORM	67-66-3	8.51E-17	2.25E-16	3.28E-17
CHROMIUM	7440-47-3	7.54E-06	8.25E-10	1.96E-06
CHRYSENE	218-01-9	1.36E-07	1.03E-10	3.54E-08
COPPER	7440-50-8	1.14E-05	1.32E-08	1.22E-07
CROTONALDEHYDE	123-73-9	4.45E-14	1.18E-13	1.72E-14
CUMENE (ISOPROPYLBENZENE)	98-82-8	4.39E-16	1.16E-15	1.69E-16
CYANIDE	57-12-5	1.41E-12	3.73E-12	5.44E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	6.44E-08	1.25E-10	1.56E-08
DICHLORODIFLUOROMETHANE	75-71-8	2.91E-17	7.69E-17	1.12E-17

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	1.94E-14	5.14E-14	7.50E-15
DIMETHYL PHTHALATE	131-11-3	1.95E-14	5.16E-14	7.51E-15
DI-N-BUTYL PHTHALATE	84-74-2	1.73E-08	1.44E-10	1.81E-09
DI-N-OCTYL PHTHALATE	117-84-0	1.88E-01	1.01E-02	1.51E-02
ETHYL ACRYLATE	140-88-5	3.10E-17	8.20E-17	1.20E-17
ETHYLBENZENE	100-41-4	3.59E-15	9.49E-15	1.38E-15
FLUORANTHENE	206-44-0	7.54E-09	1.05E-13	1.98E-09
FORMALDEHYDE	50-00-0	8.06E-12	2.13E-11	3.11E-12
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	5.58E-16	3.38E-17	4.93E-18
HEXAVALENT CHROMIUM	18540-29-9	1.13E-18	2.98E-18	4.35E-19
HYDROGEN CHLORIDE	7647-01-0	3.92E-22	1.04E-21	1.51E-22
HYDROGEN CYANIDE	74-90-8	1.61E-11	4.26E-11	6.21E-12
HYDROGEN FLOURIDE	7664-39-3	2.30E-13	6.09E-13	8.87E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	7.62E-07	1.73E-09	1.89E-07
LEAD	7439-92-1	7.53E-05	4.60E-08	1.02E-05
MANGANESE	7439-96-5	1.23E-09	1.44E-12	2.74E-12
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
METHYL CHLORIDE	74-87-3	1.31E-15	3.47E-15	5.06E-16
METHYL ETHYL KETONE	78-93-3	5.43E-14	1.44E-13	2.10E-14
METHYL ISOBUTYL KETONE	108-10-1	5.93E-15	1.57E-14	2.29E-15
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	5.56E-14	1.47E-13	2.14E-14
METHYLNAPHTHALENE, 2-	91-57-6	8.05E-12	1.08E-14	2.08E-12
MOLYBDENUM	7439-98-7	3.28E-09	3.70E-12	6.57E-11
M-XYLENE	108-38-3	7.76E-15	2.05E-14	2.99E-15
NAPHTHALENE	91-20-3	3.12E-13	8.26E-13	1.20E-13
O-XYLENE	95-47-6	4.18E-15	1.11E-14	1.61E-15
PHENANTHRENE	85-01-8	1.41E-14	3.72E-14	5.42E-15
PHENOL	108-95-2	8.05E-14	2.13E-13	3.11E-14
PHOSPHOROUS	7723-14-0	4.38E-15	8.54E-15	1.25E-15
PROPIONALDEHYDE	123-38-6	4.52E-14	1.20E-13	1.74E-14
P-XYLENE	106-42-3	8.06E-15	2.13E-14	3.11E-15
PYRENE	129-00-0	6.01E-08	2.21E-13	1.58E-08
PYRIDINE	110-86-1	6.40E-15	1.69E-14	2.47E-15
SILVER	7440-22-4	4.49E-09	5.31E-12	1.07E-12
STRONTIUM	7440-24-6	5.66E-09	6.45E-12	7.49E-11
STYRENE	100-42-5	2.41E-14	6.39E-14	9.31E-15

Table 30 - Aquatic Receptor Dose Concentrations: Propellant 8,000 lbs. Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	4.89E-17	1.30E-16	1.89E-17
TETRAHYDROFURAN	109-99-9	3.72E-15	9.84E-15	1.43E-15
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	6.58E-09	3.98E-12	8.75E-10
TOLUENE	108-88-3	6.78E-14	1.79E-13	2.62E-14
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	3.72E-17	9.83E-17	1.43E-17
ZINC	7440-66-6	2.93E-08	3.49E-11	5.32E-10

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.15E-15	4.68E-15	7.31E-15	3.01E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	1.13E-16	4.62E-16	7.21E-16	2.97E-14
1,3,5-TRIMETHYLBENZENE	108-67-8	1.50E-16	2.42E-16	1.61E-16	9.57E-17
1,3-BUTADIENE	106-99-0	5.30E-17	8.59E-17	5.75E-17	5.52E-17
1,4-DIOXANE	123-91-1	2.48E-08	1.40E-07	1.61E-07	3.38E-05
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.05E-14	4.27E-14	6.67E-14	2.75E-12
2-NITROPHENOL	88-75-5	1.19E-15	6.35E-13	1.28E-15	4.47E-10
ACENAPHTHENE	83-32-9	2.51E-16	4.05E-16	2.70E-16	1.60E-16
ACETALDEHYDE	75-07-0	9.18E-14	1.48E-13	9.89E-14	5.86E-14
ACETONE	67-64-1	3.51E-14	5.68E-14	3.78E-14	2.24E-14
ACETONITRILE	75-05-8	2.13E-14	3.44E-14	2.30E-14	1.36E-14
ACROLEIN	107-02-8	5.91E-15	9.55E-15	6.37E-15	3.77E-15
ACRYLONITRILE	107-13-1	7.35E-14	1.19E-13	7.92E-14	4.69E-14
ALUMINUM	7429-90-5	3.41E-08	1.39E-07	2.17E-07	8.96E-06
AMMONIA	7664-41-7	8.56E-12	1.38E-11	9.21E-12	5.47E-12
ANTHRACENE	120-12-7	2.45E-16	6.29E-12	2.64E-16	4.43E-09
ANTIMONY	7440-36-0	4.87E-15	2.11E-12	5.68E-13	1.49E-09
ARSENIC	7440-38-2	9.66E-08	3.94E-07	6.16E-07	2.54E-05
BARIUM	7440-39-3	2.95E-08	1.34E-07	1.88E-07	1.71E-05
BENZ(A)ANTHRACENE	56-55-3	1.21E-09	5.75E-09	7.75E-09	8.89E-07

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZENE	71-43-2	6.67E-10	2.83E-08	2.17E-08	1.87E-05
BENZO(A)PYRENE	50-32-8	9.07E-09	8.33E-08	7.32E-08	3.55E-05
BENZO(B)FLUORANTHENE	205-99-2	2.59E-09	1.06E-08	1.65E-08	6.81E-07
BENZO(K)FLUORANTHENE	207-08-9	8.21E-09	3.36E-08	5.24E-08	2.25E-06
BENZYL CHLORIDE	100-44-7	0.00E+00	1.36E-10	0.00E+00	9.58E-08
BERYLLIUM	7440-41-7	1.48E-09	6.08E-09	9.46E-09	4.17E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	6.09E-08	2.48E-07	3.88E-07	1.60E-05
BUTYLBENZYLPHTHALATE	85-68-7	7.04E-10	2.87E-09	4.49E-09	1.85E-07
CADMIUM	7440-43-9	9.21E-09	3.76E-08	5.87E-08	2.42E-06
CARBON TETRACHLORIDE	56-23-5	7.67E-18	1.24E-17	8.26E-18	4.90E-18
CHLOROETHANE	75-00-3	4.23E-17	5.64E-07	4.56E-17	3.97E-04
CHLOROFORM	67-66-3	1.15E-17	1.86E-17	1.24E-17	7.35E-18
CHROMIUM	7440-47-3	6.49E-09	3.66E-08	4.21E-08	8.89E-06
CHRYSENE	218-01-9	3.16E-09	1.29E-08	2.02E-08	8.32E-07
COPPER	7440-50-8	1.43E-05	5.85E-05	9.14E-05	3.78E-03
CROTONALDEHYDE	123-73-9	6.02E-15	9.77E-15	6.53E-15	2.39E-14
CUMENE (ISOPROPYLBENZENE)	98-82-8	5.93E-17	4.61E-10	6.39E-17	3.25E-07
CYANIDE	57-12-5	1.91E-13	1.55E-08	2.63E-08	1.16E-05
DIBENZ(A,H)ANTHRACENE	53-70-3	2.14E-08	8.72E-08	1.36E-07	5.62E-06
DICHLORODIFLUOROMETHANE	75-71-8	3.93E-18	6.35E-18	4.23E-18	2.51E-18

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	2.63E-15	4.24E-15	2.83E-15	1.68E-15
DIMETHYL PHTHALATE	131-11-3	2.63E-15	4.26E-15	2.84E-15	1.68E-15
DI-N-BUTYL PHTHALATE	84-74-2	8.17E-10	7.79E-09	4.53E-08	4.39E-06
DI-N-OCTYL PHTHALATE	117-84-0	2.00E-08	8.18E-08	1.28E-07	5.27E-06
ETHYL ACRYLATE	140-88-5	4.19E-18	6.78E-18	4.53E-18	3.71E-18
ETHYLBENZENE	100-41-4	4.85E-16	5.70E-10	5.23E-16	4.02E-07
FLUORANTHENE	206-44-0	4.67E-11	1.91E-10	2.98E-10	1.23E-08
FORMALDEHYDE	50-00-0	1.09E-12	1.76E-12	1.17E-12	6.95E-13
HEXACHLOROBENZENE	118-74-1	1.60E-11	5.39E-08	1.87E-04	4.86E-03
HEXANE, N-	110-54-3	7.17E-16	3.46E-08	4.56E-15	2.44E-05
HEXAVALENT CHROMIUM	18540-29-9	1.53E-19	2.46E-19	1.64E-19	9.74E-20
HYDROGEN CHLORIDE	7647-01-0	5.30E-23	8.57E-23	5.71E-23	3.39E-23
HYDROGEN CYANIDE	74-90-8	2.18E-12	2.23E-11	2.35E-12	1.32E-08
HYDROGEN FLOURIDE	7664-39-3	3.11E-14	5.03E-14	3.35E-14	2.21E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	1.66E-07	6.78E-07	1.06E-06	4.37E-05
LEAD	7439-92-1	4.73E-05	1.93E-04	3.02E-04	1.24E-02
MANGANESE	7439-96-5	1.59E-09	6.50E-09	1.02E-08	4.19E-07
MERCURIC CHLORIDE	7487-94-7	1.28E-09	2.95E-06	1.86E-07	2.08E-03
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL CHLORIDE	74-87-3	1.77E-16	2.86E-16	1.91E-16	1.13E-16
METHYL ETHYL KETONE	78-93-3	7.35E-15	1.19E-14	7.91E-15	4.69E-15
METHYL ISOBUTYL KETONE	108-10-1	8.01E-16	1.29E-15	8.63E-16	5.12E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	7.52E-15	1.21E-14	8.10E-15	4.80E-15
METHYLNAPHTHALENE, 2-	91-57-6	2.05E-13	1.56E-12	1.31E-12	5.67E-10
MOLYBDENUM	7439-98-7	3.97E-09	1.62E-08	2.53E-08	1.04E-06
M-XYLENE	108-38-3	1.05E-15	1.69E-15	1.13E-15	6.70E-16
NAPHTHALENE	91-20-3	5.07E-14	1.63E-13	9.96E-14	4.44E-11
O-XYLENE	95-47-6	1.02E-12	1.55E-10	6.33E-09	2.69E-07
PHENANTHRENE	85-01-8	1.91E-15	4.56E-09	2.06E-15	3.21E-06
PHENOL	108-95-2	1.09E-14	1.76E-14	1.17E-14	6.95E-15
PHOSPHOROUS	7723-14-0	1.92E-15	2.13E-11	9.92E-15	1.50E-08
PROPIONALDEHYDE	123-38-6	6.11E-15	7.04E-11	6.58E-15	4.96E-08
P-XYLENE	106-42-3	1.09E-15	1.76E-15	1.17E-15	6.97E-16
PYRENE	129-00-0	8.87E-11	3.62E-10	5.66E-10	2.34E-08
PYRIDINE	110-86-1	8.66E-16	1.40E-15	9.32E-16	5.53E-16
SILVER	7440-22-4	5.88E-09	2.40E-08	3.75E-08	1.55E-06
STRONTIUM	7440-24-6	7.05E-09	2.90E-08	4.50E-08	2.03E-06
STYRENE	100-42-5	3.26E-15	5.27E-15	3.51E-15	2.08E-15

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
SULFURIC ACID	7664-93-9	1.13E-10	1.82E-10	1.21E-10	7.19E-11
TETRACHLOROETHYLENE	127-18-4	6.62E-18	1.07E-17	7.13E-18	4.23E-18
TETRAHYDROFURAN	109-99-9	5.03E-16	8.12E-16	5.42E-16	3.21E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	4.26E-09	1.74E-08	2.72E-08	1.12E-06
TOLUENE	108-88-3	9.17E-15	1.48E-14	9.88E-15	5.85E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	5.02E-18	8.12E-18	5.41E-18	3.21E-18
ZINC	7440-66-6	3.52E-08	1.44E-07	2.25E-07	9.26E-06

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.50E-16	5.50E-20	8.01E-21
1,2,4-TRIMETHYLBENZENE	95-63-6	5.42E-17	6.22E-21	9.07E-22
1,3,5-TRIMETHYLBENZENE	108-67-8	2.57E-16	6.80E-16	9.92E-17
1,3-BUTADIENE	106-99-0	9.09E-17	2.40E-16	3.50E-17
1,4-DIOXANE	123-91-1	9.25E-08	6.93E-12	2.10E-08
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.02E-15	3.63E-17	5.88E-18
2-NITROPHENOL	88-75-5	1.31E-12	5.40E-15	3.46E-13
ACENAPHTHENE	83-32-9	4.30E-16	1.14E-15	1.66E-16
ACETALDEHYDE	75-07-0	1.58E-13	4.17E-13	6.07E-14
ACETONE	67-64-1	6.03E-14	1.59E-13	2.32E-14
ACETONITRILE	75-05-8	3.66E-14	9.68E-14	1.41E-14
ACROLEIN	107-02-8	1.01E-14	2.68E-14	3.91E-15
ACRYLONITRILE	107-13-1	1.26E-13	3.34E-13	4.86E-14
ALUMINUM	7429-90-5	1.63E-08	7.53E-13	1.10E-13
AMMONIA	7664-41-7	1.47E-11	3.88E-11	5.66E-12
ANTHRACENE	120-12-7	1.30E-11	1.11E-15	3.42E-12
ANTIMONY	7440-36-0	4.53E-12	1.67E-15	1.14E-12
ARSENIC	7440-38-2	4.63E-08	2.04E-12	3.00E-13
BARIUM	7440-39-3	4.18E-08	1.82E-12	7.24E-09
BENZ(A)ANTHRACENE	56-55-3	2.27E-09	9.94E-13	4.42E-10

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZENE	71-43-2	6.02E-08	5.18E-11	1.40E-08
BENZO(A)PYRENE	50-32-8	1.06E-07	5.04E-10	2.60E-08
BENZO(B)FLUORANTHENE	205-99-2	1.24E-09	4.28E-15	6.23E-16
BENZO(K)FLUORANTHENE	207-08-9	4.22E-09	5.88E-13	7.42E-11
BENZYL CHLORIDE	100-44-7	2.81E-10	0.00E+00	7.40E-11
BERYLLIUM	7440-41-7	7.95E-10	7.00E-14	2.10E-11
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.92E-08	3.70E-12	1.49E-12
BUTYLBENZYLPHTHALATE	85-68-7	3.38E-10	4.16E-14	6.06E-15
CADMIUM	7440-43-9	4.42E-09	2.02E-13	2.96E-14
CARBON TETRACHLORIDE	56-23-5	1.32E-17	3.48E-17	5.07E-18
CHLOROETHANE	75-00-3	1.16E-06	1.92E-16	3.07E-07
CHLOROFORM	67-66-3	1.97E-17	5.22E-17	7.62E-18
CHROMIUM	7440-47-3	2.44E-08	3.72E-12	5.54E-09
CHRYSENE	218-01-9	1.52E-09	2.01E-14	2.92E-15
COPPER	7440-50-8	6.90E-06	3.10E-10	6.64E-09
CROTONALDEHYDE	123-73-9	1.04E-14	2.73E-14	3.99E-15
CUMENE (ISOPROPYLBENZENE)	98-82-8	9.52E-10	2.69E-16	2.51E-10
CYANIDE	57-12-5	4.26E-08	7.89E-11	8.57E-09
DIBENZ(A,H)ANTHRACENE	53-70-3	1.02E-08	1.20E-14	1.75E-15
DICHLORODIFLUOROMETHANE	75-71-8	6.74E-18	1.78E-17	2.60E-18

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	4.51E-15	1.19E-14	1.74E-15
DIMETHYL PHTHALATE	131-11-3	4.52E-15	1.20E-14	1.74E-15
DI-N-BUTYL PHTHALATE	84-74-2	2.57E-08	2.15E-10	2.75E-09
DI-N-OCTYL PHTHALATE	117-84-0	9.61E-09	2.04E-12	1.30E-12
ETHYL ACRYLATE	140-88-5	7.19E-18	1.90E-17	2.77E-18
ETHYLBENZENE	100-41-4	1.18E-09	2.20E-15	3.10E-10
FLUORANTHENE	206-44-0	2.24E-11	6.13E-15	8.93E-16
FORMALDEHYDE	50-00-0	1.87E-12	4.94E-12	7.21E-13
HEXACHLOROBENZENE	118-74-1	7.52E-05	4.44E-06	6.65E-06
HEXANE, N-	110-54-3	7.15E-08	7.70E-18	1.88E-08
HEXAVALENT CHROMIUM	18540-29-9	2.62E-19	6.92E-19	1.01E-19
HYDROGEN CHLORIDE	7647-01-0	9.10E-23	2.41E-22	3.51E-23
HYDROGEN CYANIDE	74-90-8	4.26E-11	9.88E-12	1.17E-11
HYDROGEN FLOURIDE	7664-39-3	5.34E-14	1.41E-13	2.06E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	7.97E-08	1.82E-13	2.66E-14
LEAD	7439-92-1	2.27E-05	1.02E-09	1.48E-10
MANGANESE	7439-96-5	7.64E-10	3.37E-14	4.91E-15
MERCURIC CHLORIDE	7487-94-7	6.15E-06	5.29E-10	1.60E-06
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
METHYL CHLORIDE	74-87-3	3.04E-16	8.05E-16	1.17E-16
METHYL ETHYL KETONE	78-93-3	1.26E-14	3.33E-14	4.86E-15
METHYL ISOBUTYL KETONE	108-10-1	1.37E-15	3.64E-15	5.30E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.29E-14	3.41E-14	4.97E-15
METHYLNAPHTHALENE, 2-	91-57-6	1.60E-12	2.45E-15	3.97E-13
MOLYBDENUM	7439-98-7	1.90E-09	8.64E-14	1.26E-14
M-XYLENE	108-38-3	1.80E-15	4.76E-15	6.94E-16
NAPHTHALENE	91-20-3	2.00E-13	1.92E-13	6.05E-14
O-XYLENE	95-47-6	2.85E-09	1.88E-11	1.10E-10
PHENANTHRENE	85-01-8	9.42E-09	8.66E-15	2.48E-09
PHENOL	108-95-2	1.87E-14	4.94E-14	7.20E-15
PHOSPHOROUS	7723-14-0	4.41E-11	1.98E-15	1.16E-11
PROPIONALDEHYDE	123-38-6	1.46E-10	2.77E-14	3.83E-11
P-XYLENE	106-42-3	1.87E-15	4.95E-15	7.21E-16
PYRENE	129-00-0	4.27E-11	1.26E-14	4.77E-14
PYRIDINE	110-86-1	1.49E-15	3.93E-15	5.73E-16
SILVER	7440-22-4	2.82E-09	1.24E-13	1.84E-14
STRONTIUM	7440-24-6	3.90E-09	1.51E-13	1.37E-10
STYRENE	100-42-5	5.60E-15	1.48E-14	2.16E-15

Table 31 - Aquatic Receptor Dose Concentrations: Skid Burn Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
SULFURIC ACID	7664-93-9	1.93E-10	5.11E-10	7.45E-11
TETRACHLOROETHYLENE	127-18-4	1.14E-17	3.00E-17	4.38E-18
TETRAHYDROFURAN	109-99-9	8.63E-16	2.28E-15	3.33E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	2.04E-09	9.30E-14	1.36E-14
TOLUENE	108-88-3	1.57E-14	4.16E-14	6.07E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	8.62E-18	2.28E-17	3.32E-18
ZINC	7440-66-6	1.69E-08	7.54E-13	4.39E-13

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.44E-16	1.20E-13	5.86E-14	8.55E-11
1,2,4-TRIMETHYLBENZENE	95-63-6	1.41E-17	5.75E-17	8.98E-17	3.70E-15
1,3,5-TRIMETHYLBENZENE	108-67-8	7.52E-17	1.21E-16	8.09E-17	4.80E-17
1,3-BUTADIENE	106-99-0	2.66E-17	4.29E-17	2.86E-17	1.96E-17
1,4-DIOXANE	123-91-1	3.09E-16	4.99E-16	3.33E-16	1.97E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.30E-15	1.27E-12	4.86E-12	1.01E-09
2-NITROPHENOL	88-75-5	5.97E-16	9.64E-16	6.43E-16	3.81E-16
ACENAPHTHENE	83-32-9	1.26E-16	2.03E-16	1.35E-16	8.02E-17
ACETALDEHYDE	75-07-0	4.60E-14	7.44E-14	4.96E-14	2.94E-14
ACETONE	67-64-1	1.76E-14	2.85E-14	1.90E-14	1.12E-14
ACETONITRILE	75-05-8	1.07E-14	1.73E-14	1.15E-14	6.82E-15
ACROLEIN	107-02-8	2.96E-15	4.79E-15	3.19E-15	1.89E-15
ACRYLONITRILE	107-13-1	3.69E-14	5.95E-14	3.97E-14	2.35E-14
ALUMINUM	7429-90-5	4.24E-09	4.14E-08	2.74E-08	1.81E-05
AMMONIA	7664-41-7	4.29E-12	6.93E-12	4.62E-12	2.74E-12
ANTHRACENE	120-12-7	1.23E-16	1.98E-16	1.32E-16	7.84E-17
ANTIMONY	7440-36-0	8.99E-18	1.45E-17	9.68E-18	5.74E-18
ARSENIC	7440-38-2	1.20E-08	4.91E-08	7.67E-08	3.17E-06
BARIUM	7440-39-3	3.66E-09	1.50E-08	2.34E-08	9.66E-07
BENZ(A)ANTHRACENE	56-55-3	1.57E-10	2.71E-08	2.20E-09	1.87E-05
BENZENE	71-43-2	5.35E-15	8.65E-15	5.76E-15	3.42E-15
BENZO(A)PYRENE	50-32-8	1.13E-09	5.56E-08	2.42E-08	3.67E-05

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZO(B)FLUORANTHENE	205-99-2	3.21E-10	2.92E-09	2.22E-09	1.22E-06
BENZO(K)FLUORANTHENE	207-08-9	1.03E-09	9.65E-08	1.77E-08	6.56E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.84E-10	1.02E-09	1.27E-09	2.40E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	7.61E-09	1.08E-07	1.52E-04	3.98E-03
BUTYLBENZYLPHTHALATE	85-68-7	8.77E-11	6.28E-10	5.59E-10	2.14E-07
CADMIUM	7440-43-9	1.15E-09	4.76E-09	7.59E-09	3.63E-07
CARBON TETRACHLORIDE	56-23-5	3.84E-18	6.21E-18	4.14E-18	2.45E-18
CHLOROETHANE	75-00-3	2.12E-17	3.43E-17	2.29E-17	1.36E-17
CHLOROFORM	67-66-3	5.77E-18	9.32E-18	6.22E-18	3.69E-18
CHROMIUM	7440-47-3	1.33E-09	1.13E-06	9.34E-08	7.94E-04
CHRYSENE	218-01-9	3.96E-10	2.19E-08	3.75E-09	1.44E-05
COPPER	7440-50-8	1.79E-06	7.35E-06	1.14E-05	5.18E-04
CROTONALDEHYDE	123-73-9	3.02E-15	4.87E-15	3.25E-15	2.00E-15
CUMENE (ISOPROPYLBENZENE)	98-82-8	2.97E-17	4.80E-17	3.20E-17	1.90E-17
CYANIDE	57-12-5	9.55E-14	1.54E-13	1.03E-13	6.10E-14
DIBENZ(A,H)ANTHRACENE	53-70-3	2.65E-09	1.97E-08	1.78E-08	6.98E-06
DICHLORODIFLUOROMETHANE	75-71-8	1.97E-18	3.18E-18	2.12E-18	1.26E-18
DIETHYL PHTHALATE	84-66-2	1.32E-15	2.13E-15	1.42E-15	8.41E-16
DIMETHYL PHTHALATE	131-11-3	1.32E-15	2.13E-15	1.42E-15	8.43E-16
DI-N-BUTYL PHTHALATE	84-74-2	1.02E-10	1.33E-09	8.91E-09	8.86E-07
DI-N-OCTYL PHTHALATE	117-84-0	2.50E-09	4.11E-08	1.46E-01	3.77E+00

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
ETHYL ACRYLATE	140-88-5	2.10E-18	3.40E-18	2.27E-18	1.43E-18
ETHYLBENZENE	100-41-4	2.43E-16	3.93E-16	2.62E-16	1.55E-16
FLUORANTHENE	206-44-0	5.81E-12	1.16E-09	3.71E-11	8.02E-07
FORMALDEHYDE	50-00-0	5.46E-13	8.82E-13	5.88E-13	3.49E-13
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	8.99E-17	3.65E-16	5.69E-16	2.34E-14
HEXAVALENT CHROMIUM	18540-29-9	7.65E-20	1.24E-19	8.24E-20	4.88E-20
HYDROGEN CHLORIDE	7647-01-0	2.66E-23	4.29E-23	2.86E-23	1.70E-23
HYDROGEN CYANIDE	74-90-8	1.09E-12	1.76E-12	1.18E-12	7.46E-13
HYDROGEN FLOURIDE	7664-39-3	1.56E-14	2.52E-14	1.68E-14	1.01E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	2.06E-08	1.91E-07	1.44E-07	8.13E-05
LEAD	7439-92-1	5.89E-06	2.99E-05	3.78E-05	5.69E-03
MANGANESE	7439-96-5	1.98E-10	8.10E-10	1.26E-09	5.31E-08
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	8.89E-17	1.44E-16	9.57E-17	5.68E-17
METHYL ETHYL KETONE	78-93-3	3.68E-15	5.95E-15	3.97E-15	2.35E-15
METHYL ISOBUTYL KETONE	108-10-1	4.02E-16	6.49E-16	4.33E-16	2.57E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	3.77E-15	6.09E-15	4.06E-15	2.41E-15
METHYLNAPHTHALENE, 2-	91-57-6	2.57E-14	1.30E-12	1.63E-13	8.48E-10

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
MOLYBDENUM	7439-98-7	4.94E-10	2.05E-09	3.15E-09	1.56E-07
M-XYLENE	108-38-3	5.26E-16	8.50E-16	5.66E-16	3.36E-16
NAPHTHALENE	91-20-3	2.12E-14	3.42E-14	2.28E-14	1.35E-14
O-XYLENE	95-47-6	2.83E-16	4.58E-16	3.05E-16	1.81E-16
PHENANTHRENE	85-01-8	9.57E-16	1.55E-15	1.03E-15	6.11E-16
PHENOL	108-95-2	5.46E-15	8.82E-15	5.88E-15	3.49E-15
PHOSPHOROUS	7723-14-0	4.03E-16	1.11E-15	1.41E-15	5.07E-14
PROPIONALDEHYDE	123-38-6	3.06E-15	4.95E-15	3.30E-15	1.96E-15
P-XYLENE	106-42-3	5.46E-16	8.83E-16	5.88E-16	3.49E-16
PYRENE	129-00-0	1.10E-11	9.12E-09	7.04E-11	6.40E-06
PYRIDINE	110-86-1	4.34E-16	7.01E-16	4.68E-16	2.77E-16
SILVER	7440-22-4	7.32E-10	2.99E-09	4.67E-09	1.92E-07
STRONTIUM	7440-24-6	8.78E-10	3.62E-09	5.60E-09	2.61E-07
STYRENE	100-42-5	1.64E-15	2.64E-15	1.76E-15	1.04E-15
SULFURIC ACID	7664-93-9	3.02E-06	1.23E-05	1.93E-05	7.95E-04
TETRACHLOROETHYLENE	127-18-4	3.32E-18	5.36E-18	3.57E-18	2.12E-18
TETRAHYDROFURAN	109-99-9	2.52E-16	4.07E-16	2.71E-16	1.61E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	5.31E-10	2.67E-09	3.38E-09	4.94E-07
TOLUENE	108-88-3	4.60E-15	7.43E-15	4.95E-15	2.94E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	2.52E-18	4.07E-18	2.71E-18	1.61E-18

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
ZINC	7440-66-6	4.39E-09	1.82E-08	2.83E-08	1.37E-06

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.69E-13	2.40E-15	6.84E-14
1,2,4-TRIMETHYLBENZENE	95-63-6	6.75E-18	3.12E-21	4.55E-22
1,3,5-TRIMETHYLBENZENE	108-67-8	1.29E-16	3.41E-16	4.97E-17
1,3-BUTADIENE	106-99-0	4.55E-17	1.20E-16	1.76E-17
1,4-DIOXANE	123-91-1	5.30E-16	1.40E-15	2.04E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	4.55E-12	2.01E-13	9.87E-13
2-NITROPHENOL	88-75-5	1.02E-15	2.71E-15	3.95E-16
ACENAPHTHENE	83-32-9	2.16E-16	5.70E-16	8.31E-17
ACETALDEHYDE	75-07-0	7.90E-14	2.09E-13	3.05E-14
ACETONE	67-64-1	3.02E-14	7.99E-14	1.17E-14
ACETONITRILE	75-05-8	1.83E-14	4.85E-14	7.07E-15
ACROLEIN	107-02-8	5.08E-15	1.35E-14	1.96E-15
ACRYLONITRILE	107-13-1	6.32E-14	1.67E-13	2.44E-14
ALUMINUM	7429-90-5	5.20E-08	1.46E-12	1.31E-08
AMMONIA	7664-41-7	7.36E-12	1.95E-11	2.84E-12
ANTHRACENE	120-12-7	2.11E-16	5.58E-16	8.13E-17
ANTIMONY	7440-36-0	1.54E-17	4.08E-17	5.95E-18
ARSENIC	7440-38-2	5.79E-09	1.03E-12	6.97E-12
BARIUM	7440-39-3	1.77E-09	3.12E-13	2.31E-12
BENZ(A)ANTHRACENE	56-55-3	5.53E-08	3.14E-11	1.45E-08
BENZENE	71-43-2	9.18E-15	2.43E-14	3.54E-15
BENZO(A)PYRENE	50-32-8	1.13E-07	5.54E-10	2.86E-08

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZO(B)FLUORANTHENE	205-99-2	3.55E-09	4.46E-12	8.84E-10
BENZO(K)FLUORANTHENE	207-08-9	1.96E-07	3.65E-10	5.08E-08
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	6.79E-10	2.81E-13	1.47E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	6.12E-05	5.42E-06	8.11E-06
BUTYLBENZYLPHTHALATE	85-68-7	6.01E-10	2.08E-14	1.47E-10
CADMIUM	7440-43-9	8.19E-10	9.19E-13	4.30E-11
CARBON TETRACHLORIDE	56-23-5	6.60E-18	1.74E-17	2.54E-18
CHLOROETHANE	75-00-3	3.64E-17	9.63E-17	1.40E-17
CHLOROFORM	67-66-3	9.90E-18	2.62E-17	3.82E-18
CHROMIUM	7440-47-3	2.35E-06	2.53E-10	6.11E-07
CHRYSENE	218-01-9	4.25E-08	3.20E-11	1.11E-08
COPPER	7440-50-8	1.00E-06	1.81E-10	3.76E-08
CROTONALDEHYDE	123-73-9	5.17E-15	1.37E-14	1.99E-15
CUMENE (ISOPROPYLBENZENE)	98-82-8	5.10E-17	1.35E-16	1.97E-17
CYANIDE	57-12-5	1.64E-13	4.34E-13	6.32E-14
DIBENZ(A,H)ANTHRACENE	53-70-3	2.00E-08	3.91E-11	4.89E-09
DICHLORODIFLUOROMETHANE	75-71-8	3.38E-18	8.94E-18	1.30E-18
DIETHYL PHTHALATE	84-66-2	2.26E-15	5.98E-15	8.72E-16
DIMETHYL PHTHALATE	131-11-3	2.27E-15	6.00E-15	8.74E-16
DI-N-BUTYL PHTHALATE	84-74-2	5.26E-09	4.42E-11	5.65E-10
DI-N-OCTYL PHTHALATE	117-84-0	5.87E-02	3.17E-03	4.72E-03

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
ETHYL ACRYLATE	140-88-5	3.60E-18	9.54E-18	1.39E-18
ETHYLBENZENE	100-41-4	4.17E-16	1.10E-15	1.61E-16
FLUORANTHENE	206-44-0	2.35E-09	3.07E-15	6.18E-10
FORMALDEHYDE	50-00-0	9.37E-13	2.48E-12	3.61E-13
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	4.41E-17	3.86E-18	5.64E-19
HEXAVALENT CHROMIUM	18540-29-9	1.31E-19	3.47E-19	5.06E-20
HYDROGEN CHLORIDE	7647-01-0	4.56E-23	1.21E-22	1.76E-23
HYDROGEN CYANIDE	74-90-8	1.87E-12	4.95E-12	7.22E-13
HYDROGEN FLOURIDE	7664-39-3	2.68E-14	7.08E-14	1.03E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	2.37E-07	5.39E-10	5.92E-08
LEAD	7439-92-1	1.50E-05	1.30E-09	3.19E-06
MANGANESE	7439-96-5	9.81E-11	1.69E-14	7.92E-13
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	1.52E-16	4.03E-16	5.88E-17
METHYL ETHYL KETONE	78-93-3	6.32E-15	1.67E-14	2.44E-15
METHYL ISOBUTYL KETONE	108-10-1	6.89E-16	1.82E-15	2.66E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	6.47E-15	1.71E-14	2.49E-15
METHYLNAPHTHALENE, 2-	91-57-6	2.48E-12	1.23E-15	6.50E-13

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
MOLYBDENUM	7439-98-7	3.14E-10	4.33E-14	2.04E-11
M-XYLENE	108-38-3	9.02E-16	2.39E-15	3.48E-16
NAPHTHALENE	91-20-3	3.63E-14	9.60E-14	1.40E-14
O-XYLENE	95-47-6	4.86E-16	1.29E-15	1.87E-16
PHENANTHRENE	85-01-8	1.64E-15	4.34E-15	6.33E-16
PHENOL	108-95-2	9.37E-15	2.48E-14	3.61E-15
PHOSPHOROUS	7723-14-0	4.70E-16	9.93E-16	1.46E-16
PROPIONALDEHYDE	123-38-6	5.26E-15	1.39E-14	2.03E-15
P-XYLENE	106-42-3	9.37E-16	2.48E-15	3.61E-16
PYRENE	129-00-0	1.88E-08	6.30E-15	4.94E-09
PYRIDINE	110-86-1	7.45E-16	1.97E-15	2.87E-16
SILVER	7440-22-4	3.51E-10	6.25E-14	1.01E-13
STRONTIUM	7440-24-6	5.09E-10	7.55E-14	2.31E-11
STYRENE	100-42-5	2.81E-15	7.43E-15	1.08E-15
SULFURIC ACID	7664-93-9	1.45E-06	2.56E-10	3.74E-11
TETRACHLOROETHYLENE	127-18-4	5.69E-18	1.51E-17	2.20E-18
TETRAHYDROFURAN	109-99-9	4.32E-16	1.14E-15	1.67E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	1.29E-09	4.66E-14	2.73E-10
TOLUENE	108-88-3	7.89E-15	2.09E-14	3.04E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	4.32E-18	1.14E-17	1.67E-18

Table 32 - Aquatic Receptor Dose Concentrations: Skid Burn 183 Day Scenario (mg/kg/day)				
COPC	**CAS**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
ZINC	7440-66-6	2.84E-09	1.23E-12	1.65E-10

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	5.06E-16	1.92E-13	9.54E-14	1.37E-10
1,2,4-TRIMETHYLBENZENE	95-63-6	9.00E-17	3.67E-16	5.74E-16	2.37E-14
1,3,5-TRIMETHYLBENZENE	108-67-8	2.27E-15	3.66E-15	2.44E-15	1.45E-15
1,3-BUTADIENE	106-99-0	1.30E-14	2.10E-14	1.40E-14	8.32E-15
1,4-DIOXANE	123-91-1	1.05E-15	1.69E-15	1.13E-15	6.70E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	9.08E-15	2.04E-12	7.78E-12	1.62E-09
2-NITROPHENOL	88-75-5	1.52E-19	2.46E-19	1.64E-19	9.72E-20
ACENAPHTHENE	83-32-9	1.98E-13	3.21E-13	2.14E-13	1.27E-13
ACETALDEHYDE	75-07-0	7.59E-14	1.23E-13	8.18E-14	4.85E-14
ACETONE	67-64-1	4.61E-14	7.44E-14	4.96E-14	2.94E-14
ACETONITRILE	75-05-8	1.28E-14	2.06E-14	1.38E-14	8.16E-15
ACROLEIN	107-02-8	1.59E-13	2.57E-13	1.71E-13	1.01E-13
ACRYLONITRILE	107-13-1	5.28E-16	8.52E-16	5.68E-16	3.37E-16
ALUMINUM	7429-90-5	2.71E-08	1.49E-07	1.74E-07	3.43E-05
AMMONIA	7664-41-7	1.24E-16	2.23E-16	1.82E-16	2.52E-15
ANTHRACENE	120-12-7	3.88E-17	6.26E-17	4.17E-17	2.47E-17
ANTIMONY	7440-36-0	9.65E-12	1.56E-11	1.04E-11	6.16E-12
ARSENIC	7440-38-2	7.68E-08	3.13E-07	4.90E-07	2.02E-05
BARIUM	7440-39-3	2.34E-08	9.56E-08	1.49E-07	6.16E-06
BENZ(A)ANTHRACENE	56-55-3	6.81E-10	4.51E-08	6.26E-09	3.00E-05

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZENE	71-43-2	1.50E-13	2.43E-13	1.62E-13	9.61E-14
BENZO(A)PYRENE	50-32-8	3.01E-09	9.37E-08	4.63E-08	5.89E-05
BENZO(B)FLUORANTHENE	205-99-2	5.95E-10	5.00E-09	4.07E-09	1.98E-06
BENZO(K)FLUORANTHENE	207-08-9	2.29E-09	1.57E-07	3.24E-08	1.05E-04
BENZYL CHLORIDE	100-44-7	1.51E-13	2.44E-13	1.63E-13	9.64E-14
BERYLLIUM	7440-41-7	1.18E-09	5.24E-09	7.66E-09	6.16E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	4.85E-08	3.21E-07	2.43E-04	6.36E-03
BUTYLBENZYLPHTHALATE	85-68-7	5.61E-10	2.72E-09	3.57E-09	4.52E-07
CADMIUM	7440-43-9	7.33E-09	3.00E-08	4.72E-08	2.02E-06
CARBON TETRACHLORIDE	56-23-5	9.15E-17	1.48E-16	9.85E-17	5.84E-17
CHLOROETHANE	75-00-3	2.49E-17	4.02E-17	2.68E-17	1.59E-17
CHLOROFORM	67-66-3	2.08E-12	3.35E-12	2.24E-12	1.33E-12
CHROMIUM	7440-47-3	5.99E-09	1.82E-06	1.74E-07	1.27E-03
CHRYSENE	218-01-9	9.10E-10	3.61E-08	7.76E-09	2.31E-05
COPPER	7440-50-8	1.14E-05	4.67E-05	7.27E-05	3.08E-03
CROTONALDEHYDE	123-73-9	1.07E-17	2.15E-17	2.04E-17	4.58E-16
CUMENE (ISOPROPYLBENZENE)	98-82-8	4.12E-13	6.65E-13	4.44E-13	2.63E-13
CYANIDE	57-12-5	2.67E-13	4.31E-13	2.87E-13	1.70E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	4.78E-09	3.37E-08	3.20E-08	1.13E-05
DICHLORODIFLUOROMETHANE	75-71-8	5.68E-15	9.18E-15	6.12E-15	3.63E-15

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	5.70E-15	9.20E-15	6.13E-15	3.64E-15
DIMETHYL PHTHALATE	131-11-3	1.33E-15	2.15E-15	1.43E-15	8.51E-16
DI-N-BUTYL PHTHALATE	84-74-2	6.52E-10	4.12E-09	1.73E-08	1.54E-06
DI-N-OCTYL PHTHALATE	117-84-0	1.59E-08	1.14E-07	2.34E-01	6.02E+00
ETHYL ACRYLATE	140-88-5	4.70E-12	7.60E-12	5.07E-12	3.00E-12
ETHYLBENZENE	100-41-4	1.25E-11	2.01E-11	1.34E-11	7.96E-12
FLUORANTHENE	206-44-0	3.95E-11	1.97E-09	2.39E-10	1.29E-06
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1	1.15E-22	1.85E-22	1.23E-22	7.32E-23
HEXANE, N-	110-54-3	1.76E-15	4.25E-15	4.91E-15	1.50E-13
HEXAVALENT CHROMIUM	18540-29-9	8.13E-14	1.31E-13	8.76E-14	5.19E-14
HYDROGEN CHLORIDE	7647-01-0	6.69E-13	1.08E-12	7.21E-13	4.27E-13
HYDROGEN CYANIDE	74-90-8	6.76E-14	1.10E-13	7.46E-14	1.91E-13
HYDROGEN FLOURIDE	7664-39-3	4.09E-13	6.60E-13	4.40E-13	2.62E-13
INDENO(1,2,3-CD)PYRENE	193-39-5	3.79E-08	3.26E-07	2.63E-07	1.31E-04
LEAD	7439-92-1	3.76E-05	1.63E-04	2.40E-04	1.65E-02
MANGANESE	7439-96-5	1.27E-09	5.18E-09	8.08E-09	3.35E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	3.83E-16	6.19E-16	4.13E-16	2.45E-16

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL CHLORIDE	74-87-3	1.59E-14	2.57E-14	1.71E-14	1.01E-14
METHYL ETHYL KETONE	78-93-3	1.73E-15	2.80E-15	1.87E-15	1.11E-15
METHYL ISOBUTYL KETONE	108-10-1	1.63E-14	2.63E-14	1.75E-14	1.04E-14
METHYL MERCURY	22967-92-6	4.80E-09	7.75E-09	5.17E-09	3.06E-09
METHYLENE CHLORIDE	75-09-2	9.12E-14	1.47E-13	9.82E-14	5.82E-14
METHYLNAPHTHALENE, 2-	91-57-6	1.45E-09	2.34E-09	1.56E-09	2.31E-09
MOLYBDENUM	7439-98-7	3.16E-09	1.29E-08	2.01E-08	8.72E-07
M-XYLENE	108-38-3	1.22E-15	1.97E-15	1.32E-15	7.80E-16
NAPHTHALENE	91-20-3	2.57E-15	4.16E-15	2.77E-15	1.64E-15
O-XYLENE	95-47-6	2.36E-15	3.81E-15	2.54E-15	1.50E-15
PHENANTHRENE	85-01-8	2.35E-14	3.80E-14	2.54E-14	1.50E-14
PHENOL	108-95-2	2.45E-14	3.95E-14	2.63E-14	1.56E-14
PHOSPHOROUS	7723-14-0	1.44E-14	2.62E-14	2.17E-14	3.22E-13
PROPIONALDEHYDE	123-38-6	7.12E-13	1.15E-12	7.67E-13	4.55E-13
P-XYLENE	106-42-3	3.55E-12	5.73E-12	3.82E-12	2.27E-12
PYRENE	129-00-0	7.06E-11	1.48E-08	4.50E-10	1.02E-05
PYRIDINE	110-86-1	5.87E-13	9.48E-13	6.32E-13	3.75E-13
SILVER	7440-22-4	4.68E-09	1.91E-08	2.98E-08	1.23E-06
STRONTIUM	7440-24-6	5.61E-09	2.30E-08	3.58E-08	1.52E-06
STYRENE	100-42-5	1.43E-17	2.31E-17	1.54E-17	9.13E-18

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
SULFURIC ACID	7664-93-9	4.40E-13	7.10E-13	4.73E-13	2.81E-13
TETRACHLOROETHYLENE	127-18-4	1.09E-15	1.76E-15	1.17E-15	6.94E-16
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	1.98E-14	3.20E-14	2.13E-14	1.27E-14
TIN	7440-31-5	3.39E-09	1.46E-08	2.16E-08	1.46E-06
TOLUENE	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	1.09E-17	1.75E-17	1.17E-17	6.93E-18
TRICHLOROFLUOROMETHANE	75-69-4	3.24E-16	5.23E-16	3.49E-16	2.07E-16
ZINC	7440-66-6	2.80E-08	1.15E-07	1.79E-07	7.71E-06

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	2.18E-12	4.30E-13	3.84E-15	1.09E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	1.28E-23	4.31E-17	0.00E+00	6.26E-25
1,3,5-TRIMETHYLBENZENE	108-67-8	1.74E-15	3.89E-15	1.03E-14	1.50E-15
1,3-BUTADIENE	106-99-0	1.00E-14	2.23E-14	5.90E-14	8.60E-15
1,4-DIOXANE	123-91-1	8.07E-16	1.80E-15	4.76E-15	6.94E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	2.79E-11	7.28E-12	3.41E-13	1.58E-12
2-NITROPHENOL	88-75-5	1.17E-19	2.61E-19	6.91E-19	1.01E-19
ACENAPHTHENE	83-32-9	1.53E-13	3.40E-13	9.01E-13	1.31E-13
ACETALDEHYDE	75-07-0	5.84E-14	1.30E-13	3.45E-13	5.02E-14
ACETONE	67-64-1	3.54E-14	7.91E-14	2.09E-13	3.05E-14
ACETONITRILE	75-05-8	9.83E-15	2.19E-14	5.80E-14	8.46E-15
ACROLEIN	107-02-8	1.22E-13	2.73E-13	7.21E-13	1.05E-13
ACRYLONITRILE	107-13-1	4.06E-16	9.05E-16	2.39E-15	3.49E-16
ALUMINUM	7429-90-5	4.29E-07	9.28E-08	8.57E-11	2.10E-08
AMMONIA	7664-41-7	8.83E-17	2.01E-16	5.19E-16	7.57E-17
ANTHRACENE	120-12-7	2.98E-17	6.65E-17	1.76E-16	2.56E-17
ANTIMONY	7440-36-0	7.42E-12	1.65E-11	4.38E-11	6.38E-12
ARSENIC	7440-38-2	2.27E-10	3.69E-08	1.34E-11	1.28E-11
BARIUM	7440-39-3	7.40E-11	1.12E-08	1.05E-13	3.63E-12
BENZ(A)ANTHRACENE	56-55-3	4.72E-07	8.85E-08	5.19E-11	2.31E-08

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZENE	71-43-2	1.16E-13	2.58E-13	6.83E-13	9.96E-14
BENZO(A)PYRENE	50-32-8	9.25E-07	1.81E-07	8.85E-10	4.57E-08
BENZO(B)FLUORANTHENE	205-99-2	2.88E-08	5.71E-09	8.06E-12	1.41E-09
BENZO(K)FLUORANTHENE	207-08-9	1.65E-06	3.13E-07	5.83E-10	8.11E-08
BENZYL CHLORIDE	100-44-7	1.16E-13	2.59E-13	6.85E-13	9.99E-14
BERYLLIUM	7440-41-7	4.87E-09	1.51E-09	1.10E-12	2.34E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.73E-04	9.78E-05	8.65E-06	1.30E-05
BUTYLBENZYLPHTHALATE	85-68-7	4.81E-09	1.16E-09	4.21E-12	2.36E-10
CADMIUM	7440-43-9	1.67E-09	3.94E-09	1.31E-12	6.87E-11
CARBON TETRACHLORIDE	56-23-5	7.04E-17	1.57E-16	4.15E-16	6.05E-17
CHLOROETHANE	75-00-3	1.91E-17	4.27E-17	1.13E-16	1.65E-17
CHLOROFORM	67-66-3	1.60E-12	3.56E-12	9.42E-12	1.37E-12
CHROMIUM	7440-47-3	2.00E-05	3.76E-06	4.03E-10	9.77E-07
CHRYSENE	218-01-9	3.61E-07	6.81E-08	5.11E-11	1.77E-08
COPPER	7440-50-8	1.23E-06	5.70E-06	4.52E-11	6.00E-08
CROTONALDEHYDE	123-73-9	7.17E-18	1.64E-17	4.11E-17	6.00E-18
CUMENE (ISOPROPYLBENZENE)	98-82-8	3.17E-13	7.07E-13	1.87E-12	2.73E-13
CYANIDE	57-12-5	2.05E-13	4.58E-13	1.21E-12	1.77E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	1.59E-07	3.22E-08	6.24E-11	7.81E-09
DICHLORODIFLUOROMETHANE	75-71-8	4.37E-15	9.74E-15	2.58E-14	3.76E-15

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	4.38E-15	9.77E-15	2.58E-14	3.77E-15
DIMETHYL PHTHALATE	131-11-3	1.02E-15	2.29E-15	6.05E-15	8.81E-16
DI-N-BUTYL PHTHALATE	84-74-2	2.56E-08	8.64E-09	8.93E-11	9.06E-10
DI-N-OCTYL PHTHALATE	117-84-0	1.65E-01	9.38E-02	5.06E-03	7.55E-03
ETHYL ACRYLATE	140-88-5	3.62E-12	8.07E-12	2.13E-11	3.11E-12
ETHYLBENZENE	100-41-4	9.60E-12	2.14E-11	5.66E-11	8.25E-12
FLUORANTHENE	206-44-0	2.02E-08	3.77E-09	1.07E-11	9.89E-10
FORMALDEHYDE	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1	8.82E-23	1.97E-22	5.20E-22	7.58E-23
HEXANE, N-	110-54-3	9.16E-16	2.32E-15	5.41E-15	7.88E-16
HEXAVALENT CHROMIUM	18540-29-9	6.25E-14	1.39E-13	3.69E-13	5.38E-14
HYDROGEN CHLORIDE	7647-01-0	5.15E-13	1.15E-12	3.04E-12	4.43E-13
HYDROGEN CYANIDE	74-90-8	5.26E-14	1.16E-13	3.05E-13	4.45E-14
HYDROGEN FLOURIDE	7664-39-3	3.14E-13	7.01E-13	1.85E-12	2.70E-13
INDENO(1,2,3-CD)PYRENE	193-39-5	1.92E-06	3.81E-07	8.62E-10	9.45E-08
LEAD	7439-92-1	1.04E-04	3.76E-05	1.26E-09	5.10E-06
MANGANESE	7439-96-5	2.85E-11	6.18E-10	1.61E-11	3.61E-12
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	2.95E-16	6.57E-16	1.74E-15	2.54E-16

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
METHYL CHLORIDE	74-87-3	1.22E-14	2.72E-14	7.21E-14	1.05E-14
METHYL ETHYL KETONE	78-93-3	1.33E-15	2.97E-15	7.86E-15	1.15E-15
METHYL ISOBUTYL KETONE	108-10-1	1.25E-14	2.79E-14	7.38E-14	1.08E-14
METHYL MERCURY	22967-92-6	3.69E-09	8.23E-09	2.18E-08	3.17E-09
METHYLENE CHLORIDE	75-09-2	7.02E-14	1.56E-13	4.14E-13	6.03E-14
METHYLNAPHTHALENE, 2-	91-57-6	1.13E-09	2.48E-09	6.56E-09	9.58E-10
MOLYBDENUM	7439-98-7	6.65E-10	1.64E-09	4.28E-15	3.25E-11
M-XYLENE	108-38-3	9.39E-16	2.10E-15	5.54E-15	8.08E-16
NAPHTHALENE	91-20-3	1.98E-15	4.41E-15	1.17E-14	1.70E-15
O-XYLENE	95-47-6	1.81E-15	4.04E-15	1.07E-14	1.56E-15
PHENANTHRENE	85-01-8	1.81E-14	4.04E-14	1.07E-13	1.56E-14
PHENOL	108-95-2	1.88E-14	4.20E-14	1.11E-13	1.62E-14
PHOSPHOROUS	7723-14-0	1.02E-14	2.32E-14	6.00E-14	8.74E-15
PROPIONALDEHYDE	123-38-6	5.48E-13	1.22E-12	3.23E-12	4.71E-13
P-XYLENE	106-42-3	2.73E-12	6.09E-12	1.61E-11	2.35E-12
PYRENE	129-00-0	1.61E-07	3.00E-08	8.49E-15	7.89E-09
PYRIDINE	110-86-1	4.52E-13	1.01E-12	2.66E-12	3.88E-13
SILVER	7440-22-4	3.09E-12	2.24E-09	3.26E-14	1.52E-13
STRONTIUM	7440-24-6	7.55E-10	2.83E-09	0.00E+00	3.69E-11
STYRENE	100-42-5	1.10E-17	2.45E-17	6.49E-17	9.46E-18

Table 33 - Terrestrial Receptor Doses: Propellant 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
SULFURIC ACID	7664-93-9	3.38E-13	7.54E-13	2.00E-12	2.91E-13
TETRACHLOROETHYLENE	127-18-4	8.36E-16	1.86E-15	4.93E-15	7.19E-16
TETRAHYDROFURAN	109-99-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THALLIUM	7440-28-0	1.52E-14	3.40E-14	9.00E-14	1.31E-14
TIN	7440-31-5	8.93E-09	3.28E-09	6.18E-20	4.37E-10
TOLUENE	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	8.36E-18	1.86E-17	4.93E-17	7.19E-18
TRICHLOROFLUOROMETHANE	75-69-4	2.49E-16	5.56E-16	1.47E-15	2.14E-16
ZINC	7440-66-6	5.66E-09	1.46E-08	1.36E-12	2.63E-10

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	3.34E-14	5.17E-13	3.97E-13	2.82E-10
1,2,4-TRIMETHYLBENZENE	95-63-6	1.80E-16	7.35E-16	1.15E-15	4.73E-14
1,3,5-TRIMETHYLBENZENE	108-67-8	6.46E-16	1.04E-15	6.96E-16	4.13E-16
1,3-BUTADIENE	106-99-0	2.28E-16	3.69E-16	2.47E-16	1.80E-16
1,4-DIOXANE	123-91-1	2.66E-15	4.29E-15	2.86E-15	1.70E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	3.31E-14	4.17E-12	1.57E-11	3.25E-09
2-NITROPHENOL	88-75-5	5.13E-15	8.29E-15	5.53E-15	3.28E-15
ACENAPHTHENE	83-32-9	1.08E-15	1.74E-15	1.16E-15	6.89E-16
ACETALDEHYDE	75-07-0	3.96E-13	6.40E-13	4.26E-13	2.53E-13
ACETONE	67-64-1	1.51E-13	2.45E-13	1.63E-13	9.67E-14
ACETONITRILE	75-05-8	9.19E-14	1.48E-13	9.90E-14	5.87E-14
ACROLEIN	107-02-8	2.55E-14	4.12E-14	2.75E-14	1.63E-14
ACRYLONITRILE	107-13-1	3.17E-13	5.12E-13	3.41E-13	2.02E-13
ALUMINUM	7429-90-5	5.43E-08	2.99E-07	3.48E-07	6.87E-05
AMMONIA	7664-41-7	3.69E-11	5.96E-11	3.97E-11	2.36E-11
ANTHRACENE	120-12-7	1.05E-15	1.70E-15	1.13E-15	6.72E-16
ANTIMONY	7440-36-0	7.73E-17	1.25E-16	8.32E-17	4.93E-17
ARSENIC	7440-38-2	1.54E-07	6.29E-07	9.82E-07	4.05E-05
BARIUM	7440-39-3	4.69E-08	1.91E-07	2.99E-07	1.23E-05
BENZ(A)ANTHRACENE	56-55-3	1.36E-09	9.02E-08	1.25E-08	6.01E-05

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZENE	71-43-2	4.60E-14	7.44E-14	4.96E-14	2.94E-14
BENZO(A)PYRENE	50-32-8	5.98E-09	1.87E-07	9.24E-08	1.18E-04
BENZO(B)FLUORANTHENE	205-99-2	1.18E-09	9.96E-09	8.07E-09	3.96E-06
BENZO(K)FLUORANTHENE	207-08-9	4.54E-09	3.14E-07	6.47E-08	2.10E-04
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	2.36E-09	1.05E-08	1.54E-08	1.23E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	9.70E-08	6.41E-07	4.87E-04	1.27E-02
BUTYLBENZYLPHTHALATE	85-68-7	1.12E-09	5.44E-09	7.15E-09	9.05E-07
CADMIUM	7440-43-9	1.47E-08	6.02E-08	9.46E-08	4.06E-06
CARBON TETRACHLORIDE	56-23-5	3.31E-17	5.34E-17	3.56E-17	2.11E-17
CHLOROETHANE	75-00-3	1.83E-16	2.95E-16	1.97E-16	1.17E-16
CHLOROFORM	67-66-3	4.96E-17	8.02E-17	5.35E-17	3.17E-17
CHROMIUM	7440-47-3	1.20E-08	3.64E-06	3.48E-07	2.54E-03
CHRYSENE	218-01-9	1.81E-09	7.21E-08	1.54E-08	4.62E-05
COPPER	7440-50-8	2.28E-05	9.33E-05	1.45E-04	6.15E-03
CROTONALDEHYDE	123-73-9	2.59E-14	4.19E-14	2.79E-14	1.75E-14
CUMENE (ISOPROPYLBENZENE)	98-82-8	2.56E-16	4.13E-16	2.75E-16	1.63E-16
CYANIDE	57-12-5	8.22E-13	1.33E-12	8.85E-13	5.25E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	9.46E-09	6.70E-08	6.33E-08	2.26E-05
DICHLORODIFLUOROMETHANE	75-71-8	1.69E-17	2.74E-17	1.82E-17	1.08E-17

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	1.13E-14	1.83E-14	1.22E-14	7.23E-15
DIMETHYL PHTHALATE	131-11-3	1.14E-14	1.84E-14	1.22E-14	7.25E-15
DI-N-BUTYL PHTHALATE	84-74-2	1.30E-09	8.22E-09	3.47E-08	3.09E-06
DI-N-OCTYL PHTHALATE	117-84-0	3.19E-08	2.29E-07	4.68E-01	1.21E+01
ETHYL ACRYLATE	140-88-5	1.81E-17	2.92E-17	1.95E-17	1.27E-17
ETHYLBENZENE	100-41-4	2.09E-15	3.38E-15	2.25E-15	1.34E-15
FLUORANTHENE	206-44-0	7.46E-11	3.94E-09	4.75E-10	2.58E-06
FORMALDEHYDE	50-00-0	4.70E-12	7.59E-12	5.06E-12	3.00E-12
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	1.14E-15	4.65E-15	7.26E-15	2.99E-13
HEXAVALENT CHROMIUM	18540-29-9	6.58E-19	1.06E-18	7.08E-19	4.20E-19
HYDROGEN CHLORIDE	7647-01-0	2.29E-22	3.69E-22	2.46E-22	1.46E-22
HYDROGEN CYANIDE	74-90-8	9.38E-12	1.52E-11	1.01E-11	6.29E-12
HYDROGEN FLOURIDE	7664-39-3	1.34E-13	2.17E-13	1.45E-13	8.76E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	7.52E-08	6.50E-07	5.21E-07	2.63E-04
LEAD	7439-92-1	7.55E-05	3.27E-04	4.82E-04	3.31E-02
MANGANESE	7439-96-5	2.54E-09	1.04E-08	1.62E-08	6.71E-07
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL CHLORIDE	74-87-3	7.64E-16	1.23E-15	8.23E-16	4.88E-16
METHYL ETHYL KETONE	78-93-3	3.17E-14	5.12E-14	3.41E-14	2.02E-14
METHYL ISOBUTYL KETONE	108-10-1	3.46E-15	5.58E-15	3.72E-15	2.21E-15
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	3.24E-14	5.24E-14	3.49E-14	2.07E-14
METHYLNAPHTHALENE, 2-	91-57-6	3.29E-13	5.15E-12	2.08E-12	2.78E-09
MOLYBDENUM	7439-98-7	6.33E-09	2.59E-08	4.03E-08	1.75E-06
M-XYLENE	108-38-3	4.52E-15	7.31E-15	4.87E-15	2.89E-15
NAPHTHALENE	91-20-3	1.82E-13	2.94E-13	1.96E-13	1.16E-13
O-XYLENE	95-47-6	2.44E-15	3.94E-15	2.62E-15	1.56E-15
PHENANTHRENE	85-01-8	8.19E-15	1.32E-14	8.82E-15	5.23E-15
PHENOL	108-95-2	4.70E-14	7.59E-14	5.06E-14	3.00E-14
PHOSPHOROUS	7723-14-0	4.24E-15	1.27E-14	1.71E-14	6.28E-13
PROPIONALDEHYDE	123-38-6	2.64E-14	4.26E-14	2.84E-14	1.69E-14
P-XYLENE	106-42-3	4.70E-15	7.59E-15	5.06E-15	3.00E-15
PYRENE	129-00-0	1.42E-10	2.96E-08	9.04E-10	2.05E-05
PYRIDINE	110-86-1	3.73E-15	6.03E-15	4.02E-15	2.38E-15
SILVER	7440-22-4	9.36E-09	3.82E-08	5.97E-08	2.46E-06
STRONTIUM	7440-24-6	1.12E-08	4.59E-08	7.15E-08	3.04E-06
STYRENE	100-42-5	1.41E-14	2.27E-14	1.52E-14	8.98E-15

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	2.85E-17	4.61E-17	3.07E-17	1.82E-17
TETRAHYDROFURAN	109-99-9	2.17E-15	3.50E-15	2.33E-15	1.38E-15
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	6.79E-09	2.93E-08	4.33E-08	2.92E-06
TOLUENE	108-88-3	3.95E-14	6.39E-14	4.26E-14	2.52E-14
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	2.17E-17	3.50E-17	2.33E-17	1.38E-17
ZINC	7440-66-6	5.61E-08	2.30E-07	3.59E-07	1.54E-05

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	4.37E-12	8.77E-13	7.67E-15	2.19E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	2.09E-20	8.64E-17	1.23E-19	1.80E-20
1,3,5-TRIMETHYLBENZENE	108-67-8	4.97E-16	1.11E-15	2.93E-15	4.28E-16
1,3-BUTADIENE	106-99-0	1.76E-16	3.92E-16	1.04E-15	1.51E-16
1,4-DIOXANE	123-91-1	2.04E-15	4.56E-15	1.21E-14	1.76E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	5.58E-11	1.46E-11	6.45E-13	3.16E-12
2-NITROPHENOL	88-75-5	3.95E-15	8.81E-15	2.33E-14	3.40E-15
ACENAPHTHENE	83-32-9	8.31E-16	1.85E-15	4.90E-15	7.14E-16
ACETALDEHYDE	75-07-0	3.05E-13	6.79E-13	1.80E-12	2.62E-13
ACETONE	67-64-1	1.17E-13	2.60E-13	6.87E-13	1.00E-13
ACETONITRILE	75-05-8	7.07E-14	1.58E-13	4.17E-13	6.08E-14
ACROLEIN	107-02-8	1.96E-14	4.37E-14	1.16E-13	1.69E-14
ACRYLONITRILE	107-13-1	2.44E-13	5.44E-13	1.44E-12	2.10E-13
ALUMINUM	7429-90-5	8.58E-07	1.86E-07	3.56E-11	4.20E-08
AMMONIA	7664-41-7	2.84E-11	6.33E-11	1.67E-10	2.44E-11
ANTHRACENE	120-12-7	8.10E-16	1.81E-15	4.78E-15	6.96E-16
ANTIMONY	7440-36-0	5.95E-17	1.33E-16	3.51E-16	5.11E-17
ARSENIC	7440-38-2	4.65E-10	7.40E-08	8.73E-11	3.46E-11
BARIUM	7440-39-3	1.53E-10	2.25E-08	2.66E-11	1.11E-11
BENZ(A)ANTHRACENE	56-55-3	9.44E-07	1.77E-07	1.02E-10	4.62E-08

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZENE	71-43-2	3.54E-14	7.90E-14	2.09E-13	3.05E-14
BENZO(A)PYRENE	50-32-8	1.85E-06	3.62E-07	1.78E-09	9.14E-08
BENZO(B)FLUORANTHENE	205-99-2	5.77E-08	1.14E-08	1.44E-11	2.83E-09
BENZO(K)FLUORANTHENE	207-08-9	3.31E-06	6.27E-07	1.17E-09	1.62E-07
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	9.75E-09	3.02E-09	2.22E-12	4.69E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	3.47E-04	1.96E-04	1.73E-05	2.60E-05
BUTYLBENZYLPHTHALATE	85-68-7	9.63E-09	2.33E-09	1.34E-12	4.72E-10
CADMIUM	7440-43-9	3.35E-09	7.91E-09	1.10E-11	1.39E-10
CARBON TETRACHLORIDE	56-23-5	2.54E-17	5.67E-17	1.50E-16	2.19E-17
CHLOROETHANE	75-00-3	1.40E-16	3.13E-16	8.28E-16	1.21E-16
CHLOROFORM	67-66-3	3.82E-17	8.51E-17	2.25E-16	3.28E-17
CHROMIUM	7440-47-3	4.01E-05	7.54E-06	8.25E-10	1.96E-06
CHRYSENE	218-01-9	7.23E-07	1.36E-07	1.03E-10	3.54E-08
COPPER	7440-50-8	2.47E-06	1.14E-05	1.32E-08	1.22E-07
CROTONALDEHYDE	123-73-9	1.99E-14	4.45E-14	1.18E-13	1.72E-14
CUMENE (ISOPROPYLBENZENE)	98-82-8	1.97E-16	4.39E-16	1.16E-15	1.69E-16
CYANIDE	57-12-5	6.32E-13	1.41E-12	3.73E-12	5.44E-13
DIBENZ(A,H)ANTHRACENE	53-70-3	3.18E-07	6.44E-08	1.25E-10	1.56E-08
DICHLORODIFLUOROMETHANE	75-71-8	1.30E-17	2.91E-17	7.69E-17	1.12E-17

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	8.72E-15	1.94E-14	5.14E-14	7.50E-15
DIMETHYL PHTHALATE	131-11-3	8.74E-15	1.95E-14	5.16E-14	7.51E-15
DI-N-BUTYL PHTHALATE	84-74-2	5.13E-08	1.73E-08	1.44E-10	1.81E-09
DI-N-OCTYL PHTHALATE	117-84-0	3.31E-01	1.88E-01	1.01E-02	1.51E-02
ETHYL ACRYLATE	140-88-5	1.39E-17	3.10E-17	8.20E-17	1.20E-17
ETHYLBENZENE	100-41-4	1.61E-15	3.59E-15	9.49E-15	1.38E-15
FLUORANTHENE	206-44-0	4.04E-08	7.54E-09	1.05E-13	1.98E-09
FORMALDEHYDE	50-00-0	3.61E-12	8.06E-12	2.13E-11	3.11E-12
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	5.80E-18	5.58E-16	3.38E-17	4.93E-18
HEXAVALENT CHROMIUM	18540-29-9	5.06E-19	1.13E-18	2.98E-18	4.35E-19
HYDROGEN CHLORIDE	7647-01-0	1.76E-22	3.92E-22	1.04E-21	1.51E-22
HYDROGEN CYANIDE	74-90-8	7.22E-12	1.61E-11	4.26E-11	6.21E-12
HYDROGEN FLOURIDE	7664-39-3	1.03E-13	2.30E-13	6.09E-13	8.87E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	3.84E-06	7.62E-07	1.73E-09	1.89E-07
LEAD	7439-92-1	2.09E-04	7.53E-05	4.60E-08	1.02E-05
MANGANESE	7439-96-5	5.19E-11	1.23E-09	1.44E-12	2.74E-12
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
METHYL CHLORIDE	74-87-3	5.88E-16	1.31E-15	3.47E-15	5.06E-16
METHYL ETHYL KETONE	78-93-3	2.44E-14	5.43E-14	1.44E-13	2.10E-14
METHYL ISOBUTYL KETONE	108-10-1	2.66E-15	5.93E-15	1.57E-14	2.29E-15
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	2.49E-14	5.56E-14	1.47E-13	2.14E-14
METHYLNAPHTHALENE, 2-	91-57-6	4.25E-11	8.05E-12	1.08E-14	2.08E-12
MOLYBDENUM	7439-98-7	1.33E-09	3.28E-09	3.70E-12	6.57E-11
M-XYLENE	108-38-3	3.48E-15	7.76E-15	2.05E-14	2.99E-15
NAPHTHALENE	91-20-3	1.40E-13	3.12E-13	8.26E-13	1.20E-13
O-XYLENE	95-47-6	1.87E-15	4.18E-15	1.11E-14	1.61E-15
PHENANTHRENE	85-01-8	6.30E-15	1.41E-14	3.72E-14	5.42E-15
PHENOL	108-95-2	3.61E-14	8.05E-14	2.13E-13	3.11E-14
PHOSPHOROUS	7723-14-0	1.55E-15	4.38E-15	8.54E-15	1.25E-15
PROPIONALDEHYDE	123-38-6	2.03E-14	4.52E-14	1.20E-13	1.74E-14
P-XYLENE	106-42-3	3.61E-15	8.06E-15	2.13E-14	3.11E-15
PYRENE	129-00-0	3.23E-07	6.01E-08	2.21E-13	1.58E-08
PYRIDINE	110-86-1	2.87E-15	6.40E-15	1.69E-14	2.47E-15
SILVER	7440-22-4	7.07E-12	4.49E-09	5.31E-12	1.07E-12
STRONTIUM	7440-24-6	1.51E-09	5.66E-09	6.45E-12	7.49E-11
STYRENE	100-42-5	1.08E-14	2.41E-14	6.39E-14	9.31E-15

Table 34 - Terrestrial Receptor Doses: Propellant 8,000 lbs. Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
SULFURIC ACID	7664-93-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4	2.19E-17	4.89E-17	1.30E-16	1.89E-17
TETRAHYDROFURAN	109-99-9	1.67E-15	3.72E-15	9.84E-15	1.43E-15
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	1.79E-08	6.58E-09	3.98E-12	8.75E-10
TOLUENE	108-88-3	3.04E-14	6.78E-14	1.79E-13	2.62E-14
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	1.67E-17	3.72E-17	9.83E-17	1.43E-17
ZINC	7440-66-6	1.13E-08	2.93E-08	3.49E-11	5.32E-10

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.15E-15	4.68E-15	7.31E-15	3.01E-13
1,2,4-TRIMETHYLBENZENE	95-63-6	1.13E-16	4.62E-16	7.21E-16	2.97E-14
1,3,5-TRIMETHYLBENZENE	108-67-8	1.50E-16	2.42E-16	1.61E-16	9.57E-17
1,3-BUTADIENE	106-99-0	5.30E-17	8.59E-17	5.75E-17	5.52E-17
1,4-DIOXANE	123-91-1	2.48E-08	1.40E-07	1.61E-07	3.38E-05
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.05E-14	4.27E-14	6.67E-14	2.75E-12
2-NITROPHENOL	88-75-5	1.19E-15	6.35E-13	1.28E-15	4.47E-10
ACENAPHTHENE	83-32-9	2.51E-16	4.05E-16	2.70E-16	1.60E-16
ACETALDEHYDE	75-07-0	9.18E-14	1.48E-13	9.89E-14	5.86E-14
ACETONE	67-64-1	3.51E-14	5.68E-14	3.78E-14	2.24E-14
ACETONITRILE	75-05-8	2.13E-14	3.44E-14	2.30E-14	1.36E-14
ACROLEIN	107-02-8	5.91E-15	9.55E-15	6.37E-15	3.77E-15
ACRYLONITRILE	107-13-1	7.35E-14	1.19E-13	7.92E-14	4.69E-14
ALUMINUM	7429-90-5	3.41E-08	1.39E-07	2.17E-07	8.96E-06
AMMONIA	7664-41-7	8.56E-12	1.38E-11	9.21E-12	5.47E-12
ANTHRACENE	120-12-7	2.45E-16	6.29E-12	2.64E-16	4.43E-09
ANTIMONY	7440-36-0	4.87E-15	2.11E-12	5.68E-13	1.49E-09
ARSENIC	7440-38-2	9.66E-08	3.94E-07	6.16E-07	2.54E-05
BARIUM	7440-39-3	2.95E-08	1.34E-07	1.88E-07	1.71E-05
BENZ(A)ANTHRACENE	56-55-3	1.21E-09	5.75E-09	7.75E-09	8.89E-07

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZENE	71-43-2	6.67E-10	2.83E-08	2.17E-08	1.87E-05
BENZO(A)PYRENE	50-32-8	9.07E-09	8.33E-08	7.32E-08	3.55E-05
BENZO(B)FLUORANTHENE	205-99-2	2.59E-09	1.06E-08	1.65E-08	6.81E-07
BENZO(K)FLUORANTHENE	207-08-9	8.21E-09	3.36E-08	5.24E-08	2.25E-06
BENZYL CHLORIDE	100-44-7	0.00E+00	1.36E-10	0.00E+00	9.58E-08
BERYLLIUM	7440-41-7	1.48E-09	6.08E-09	9.46E-09	4.17E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	6.09E-08	2.48E-07	3.88E-07	1.60E-05
BUTYLBENZYLPHTHALATE	85-68-7	7.04E-10	2.87E-09	4.49E-09	1.85E-07
CADMIUM	7440-43-9	9.21E-09	3.76E-08	5.87E-08	2.42E-06
CARBON TETRACHLORIDE	56-23-5	7.67E-18	1.24E-17	8.26E-18	4.90E-18
CHLOROETHANE	75-00-3	4.23E-17	5.64E-07	4.56E-17	3.97E-04
CHLOROFORM	67-66-3	1.15E-17	1.86E-17	1.24E-17	7.35E-18
CHROMIUM	7440-47-3	6.49E-09	3.66E-08	4.21E-08	8.89E-06
CHRYSENE	218-01-9	3.16E-09	1.29E-08	2.02E-08	8.32E-07
COPPER	7440-50-8	1.43E-05	5.85E-05	9.14E-05	3.78E-03
CROTONALDEHYDE	123-73-9	6.02E-15	9.77E-15	6.53E-15	2.39E-14
CUMENE (ISOPROPYLBENZENE)	98-82-8	5.93E-17	4.61E-10	6.39E-17	3.25E-07
CYANIDE	57-12-5	1.91E-13	1.55E-08	2.63E-08	1.16E-05
DIBENZ(A,H)ANTHRACENE	53-70-3	2.14E-08	8.72E-08	1.36E-07	5.62E-06
DICHLORODIFLUOROMETHANE	75-71-8	3.93E-18	6.35E-18	4.23E-18	2.51E-18

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	2.63E-15	4.24E-15	2.83E-15	1.68E-15
DIMETHYL PHTHALATE	131-11-3	2.63E-15	4.26E-15	2.84E-15	1.68E-15
DI-N-BUTYL PHTHALATE	84-74-2	8.17E-10	7.79E-09	4.53E-08	4.39E-06
DI-N-OCTYL PHTHALATE	117-84-0	2.00E-08	8.18E-08	1.28E-07	5.27E-06
ETHYL ACRYLATE	140-88-5	4.19E-18	6.78E-18	4.53E-18	3.71E-18
ETHYLBENZENE	100-41-4	4.85E-16	5.70E-10	5.23E-16	4.02E-07
FLUORANTHENE	206-44-0	4.67E-11	1.91E-10	2.98E-10	1.23E-08
FORMALDEHYDE	50-00-0	1.09E-12	1.76E-12	1.17E-12	6.95E-13
HEXACHLOROBENZENE	118-74-1	1.60E-11	5.39E-08	1.87E-04	4.86E-03
HEXANE, N-	110-54-3	7.17E-16	3.46E-08	4.56E-15	2.44E-05
HEXAVALENT CHROMIUM	18540-29-9	1.53E-19	2.46E-19	1.64E-19	9.74E-20
HYDROGEN CHLORIDE	7647-01-0	5.30E-23	8.57E-23	5.71E-23	3.39E-23
HYDROGEN CYANIDE	74-90-8	2.18E-12	2.23E-11	2.35E-12	1.32E-08
HYDROGEN FLOURIDE	7664-39-3	3.11E-14	5.03E-14	3.35E-14	2.21E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	1.66E-07	6.78E-07	1.06E-06	4.37E-05
LEAD	7439-92-1	4.73E-05	1.93E-04	3.02E-04	1.24E-02
MANGANESE	7439-96-5	1.59E-09	6.50E-09	1.02E-08	4.19E-07
MERCURIC CHLORIDE	7487-94-7	1.28E-09	2.95E-06	1.86E-07	2.08E-03
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL CHLORIDE	74-87-3	1.77E-16	2.86E-16	1.91E-16	1.13E-16
METHYL ETHYL KETONE	78-93-3	7.35E-15	1.19E-14	7.91E-15	4.69E-15
METHYL ISOBUTYL KETONE	108-10-1	8.01E-16	1.29E-15	8.63E-16	5.12E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	7.52E-15	1.21E-14	8.10E-15	4.80E-15
METHYLNAPHTHALENE, 2-	91-57-6	2.05E-13	1.56E-12	1.31E-12	5.67E-10
MOLYBDENUM	7439-98-7	3.97E-09	1.62E-08	2.53E-08	1.04E-06
M-XYLENE	108-38-3	1.05E-15	1.69E-15	1.13E-15	6.70E-16
NAPHTHALENE	91-20-3	5.07E-14	1.63E-13	9.96E-14	4.44E-11
O-XYLENE	95-47-6	1.02E-12	1.55E-10	6.33E-09	2.69E-07
PHENANTHRENE	85-01-8	1.91E-15	4.56E-09	2.06E-15	3.21E-06
PHENOL	108-95-2	1.09E-14	1.76E-14	1.17E-14	6.95E-15
PHOSPHOROUS	7723-14-0	1.92E-15	2.13E-11	9.92E-15	1.50E-08
PROPIONALDEHYDE	123-38-6	6.11E-15	7.04E-11	6.58E-15	4.96E-08
P-XYLENE	106-42-3	1.09E-15	1.76E-15	1.17E-15	6.97E-16
PYRENE	129-00-0	8.87E-11	3.62E-10	5.66E-10	2.34E-08
PYRIDINE	110-86-1	8.66E-16	1.40E-15	9.32E-16	5.53E-16
SILVER	7440-22-4	5.88E-09	2.40E-08	3.75E-08	1.55E-06
STRONTIUM	7440-24-6	7.05E-09	2.90E-08	4.50E-08	2.03E-06
STYRENE	100-42-5	3.26E-15	5.27E-15	3.51E-15	2.08E-15

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
SULFURIC ACID	7664-93-9	1.13E-10	1.82E-10	1.21E-10	7.19E-11
TETRACHLOROETHYLENE	127-18-4	6.62E-18	1.07E-17	7.13E-18	4.23E-18
TETRAHYDROFURAN	109-99-9	5.03E-16	8.12E-16	5.42E-16	3.21E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	4.26E-09	1.74E-08	2.72E-08	1.12E-06
TOLUENE	108-88-3	9.17E-15	1.48E-14	9.88E-15	5.85E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	5.02E-18	8.12E-18	5.41E-18	3.21E-18
ZINC	7440-66-6	3.52E-08	1.44E-07	2.25E-07	9.26E-06

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	9.31E-21	5.50E-16	5.50E-20	8.01E-21
1,2,4-TRIMETHYLBENZENE	95-63-6	1.05E-21	5.42E-17	6.22E-21	9.07E-22
1,3,5-TRIMETHYLBENZENE	108-67-8	1.15E-16	2.57E-16	6.80E-16	9.92E-17
1,3-BUTADIENE	106-99-0	4.07E-17	9.09E-17	2.40E-16	3.50E-17
1,4-DIOXANE	123-91-1	4.31E-07	9.25E-08	6.93E-12	2.10E-08
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	9.00E-20	5.02E-15	3.63E-17	5.88E-18
2-NITROPHENOL	88-75-5	7.05E-12	1.31E-12	5.40E-15	3.46E-13
ACENAPHTHENE	83-32-9	1.93E-16	4.30E-16	1.14E-15	1.66E-16
ACETALDEHYDE	75-07-0	7.06E-14	1.58E-13	4.17E-13	6.07E-14
ACETONE	67-64-1	2.70E-14	6.03E-14	1.59E-13	2.32E-14
ACETONITRILE	75-05-8	1.64E-14	3.66E-14	9.68E-14	1.41E-14
ACROLEIN	107-02-8	4.55E-15	1.01E-14	2.68E-14	3.91E-15
ACRYLONITRILE	107-13-1	5.66E-14	1.26E-13	3.34E-13	4.86E-14
ALUMINUM	7429-90-5	1.28E-13	1.63E-08	7.53E-13	1.10E-13
AMMONIA	7664-41-7	6.58E-12	1.47E-11	3.88E-11	5.66E-12
ANTHRACENE	120-12-7	6.99E-11	1.30E-11	1.11E-15	3.42E-12
ANTIMONY	7440-36-0	2.36E-11	4.53E-12	1.67E-15	1.14E-12
ARSENIC	7440-38-2	3.45E-13	4.63E-08	2.04E-12	3.00E-13
BARIUM	7440-39-3	1.48E-07	4.18E-08	1.82E-12	7.24E-09

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZ(A)ANTHRACENE	56-55-3	9.02E-09	2.27E-09	9.94E-13	4.42E-10
BENZENE	71-43-2	2.97E-07	6.02E-08	5.18E-11	1.40E-08
BENZO(A)PYRENE	50-32-8	5.26E-07	1.06E-07	5.04E-10	2.60E-08
BENZO(B)FLUORANTHENE	205-99-2	7.25E-16	1.24E-09	4.28E-15	6.23E-16
BENZO(K)FLUORANTHENE	207-08-9	1.51E-09	4.22E-09	5.88E-13	7.42E-11
BENZYL CHLORIDE	100-44-7	1.51E-09	2.81E-10	0.00E+00	7.40E-11
BERYLLIUM	7440-41-7	4.37E-10	7.95E-10	7.00E-14	2.10E-11
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	4.58E-13	2.92E-08	3.70E-12	1.49E-12
BUTYLBENZYLPHTHALATE	85-68-7	7.05E-15	3.38E-10	4.16E-14	6.06E-15
CADMIUM	7440-43-9	3.32E-14	4.42E-09	2.02E-13	2.96E-14
CARBON TETRACHLORIDE	56-23-5	5.90E-18	1.32E-17	3.48E-17	5.07E-18
CHLOROETHANE	75-00-3	6.27E-06	1.16E-06	1.92E-16	3.07E-07
CHLOROFORM	67-66-3	8.86E-18	1.97E-17	5.22E-17	7.62E-18
CHROMIUM	7440-47-3	1.14E-07	2.44E-08	3.72E-12	5.54E-09
CHRYSENE	218-01-9	3.40E-15	1.52E-09	2.01E-14	2.92E-15
COPPER	7440-50-8	1.36E-07	6.90E-06	3.10E-10	6.64E-09
CROTONALDEHYDE	123-73-9	4.91E-15	1.04E-14	2.73E-14	3.99E-15
CUMENE (ISOPROPYLBENZENE)	98-82-8	5.12E-09	9.52E-10	2.69E-16	2.51E-10
CYANIDE	57-12-5	1.91E-07	4.26E-08	7.89E-11	8.57E-09
DIBENZ(A,H)ANTHRACENE	53-70-3	2.03E-15	1.02E-08	1.20E-14	1.75E-15

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
DICHLORODIFLUOROMETHANE	75-71-8	3.02E-18	6.74E-18	1.78E-17	2.60E-18
DIETHYL PHTHALATE	84-66-2	2.02E-15	4.51E-15	1.19E-14	1.74E-15
DIMETHYL PHTHALATE	131-11-3	2.03E-15	4.52E-15	1.20E-14	1.74E-15
DI-N-BUTYL PHTHALATE	84-74-2	7.79E-08	2.57E-08	2.15E-10	2.75E-09
DI-N-OCTYL PHTHALATE	117-84-0	1.69E-13	9.61E-09	2.04E-12	1.30E-12
ETHYL ACRYLATE	140-88-5	3.23E-18	7.19E-18	1.90E-17	2.77E-18
ETHYLBENZENE	100-41-4	6.34E-09	1.18E-09	2.20E-15	3.10E-10
FLUORANTHENE	206-44-0	1.04E-15	2.24E-11	6.13E-15	8.93E-16
FORMALDEHYDE	50-00-0	8.38E-13	1.87E-12	4.94E-12	7.21E-13
HEXACHLOROBENZENE	118-74-1	1.33E-04	7.52E-05	4.44E-06	6.65E-06
HEXANE, N-	110-54-3	3.85E-07	7.15E-08	7.70E-18	1.88E-08
HEXAVALENT CHROMIUM	18540-29-9	1.17E-19	2.62E-19	6.92E-19	1.01E-19
HYDROGEN CHLORIDE	7647-01-0	4.08E-23	9.10E-23	2.41E-22	3.51E-23
HYDROGEN CYANIDE	74-90-8	2.11E-10	4.26E-11	9.88E-12	1.17E-11
HYDROGEN FLOURIDE	7664-39-3	2.39E-14	5.34E-14	1.41E-13	2.06E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	3.09E-14	7.97E-08	1.82E-13	2.66E-14
LEAD	7439-92-1	1.72E-10	2.27E-05	1.02E-09	1.48E-10
MANGANESE	7439-96-5	5.71E-15	7.64E-10	3.37E-14	4.91E-15
MERCURIC CHLORIDE	7487-94-7	3.29E-05	6.15E-06	5.29E-10	1.60E-06
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	CAS	Insectivorous Birds	Insectivorous Mammals	Carnivorous Birds	Carnivorous Mammals
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3	1.36E-16	3.04E-16	8.05E-16	1.17E-16
METHYL ETHYL KETONE	78-93-3	5.65E-15	1.26E-14	3.33E-14	4.86E-15
METHYL ISOBUTYL KETONE	108-10-1	6.16E-16	1.37E-15	3.64E-15	5.30E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	5.78E-15	1.29E-14	3.41E-14	4.97E-15
METHYLNAPHTHALENE, 2-	91-57-6	8.10E-12	1.60E-12	2.45E-15	3.97E-13
MOLYBDENUM	7439-98-7	1.46E-14	1.90E-09	8.64E-14	1.26E-14
M-XYLENE	108-38-3	8.07E-16	1.80E-15	4.76E-15	6.94E-16
NAPHTHALENE	91-20-3	6.98E-13	2.00E-13	1.92E-13	6.05E-14
O-XYLENE	95-47-6	6.14E-09	2.85E-09	1.88E-11	1.10E-10
PHENANTHRENE	85-01-8	5.07E-08	9.42E-09	8.66E-15	2.48E-09
PHENOL	108-95-2	8.38E-15	1.87E-14	4.94E-14	7.20E-15
PHOSPHOROUS	7723-14-0	2.37E-10	4.41E-11	1.98E-15	1.16E-11
PROPIONALDEHYDE	123-38-6	7.83E-10	1.46E-10	2.77E-14	3.83E-11
P-XYLENE	106-42-3	8.38E-16	1.87E-15	4.95E-15	7.21E-16
PYRENE	129-00-0	9.40E-13	4.27E-11	1.26E-14	4.77E-14
PYRIDINE	110-86-1	6.66E-16	1.49E-15	3.93E-15	5.73E-16
SILVER	7440-22-4	2.10E-14	2.82E-09	1.24E-13	1.84E-14
STRONTIUM	7440-24-6	2.81E-09	3.90E-09	1.51E-13	1.37E-10

Table 35 - Terrestrial Receptor Doses: Skid Burn Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
STYRENE	100-42-5	2.51E-15	5.60E-15	1.48E-14	2.16E-15
SULFURIC ACID	7664-93-9	8.66E-11	1.93E-10	5.11E-10	7.45E-11
TETRACHLOROETHYLENE	127-18-4	5.09E-18	1.14E-17	3.00E-17	4.38E-18
TETRAHYDROFURAN	109-99-9	3.87E-16	8.63E-16	2.28E-15	3.33E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	1.58E-14	2.04E-09	9.30E-14	1.36E-14
TOLUENE	108-88-3	7.05E-15	1.57E-14	4.16E-14	6.07E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	3.87E-18	8.62E-18	2.28E-17	3.32E-18
ZINC	7440-66-6	7.20E-12	1.69E-08	7.54E-13	4.39E-13

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.44E-16	1.20E-13	5.86E-14	8.55E-11
1,2,4-TRIMETHYLBENZENE	95-63-6	1.41E-17	5.75E-17	8.98E-17	3.70E-15
1,3,5-TRIMETHYLBENZENE	108-67-8	7.52E-17	1.21E-16	8.09E-17	4.80E-17
1,3-BUTADIENE	106-99-0	2.66E-17	4.29E-17	2.86E-17	1.96E-17
1,4-DIOXANE	123-91-1	3.09E-16	4.99E-16	3.33E-16	1.97E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.30E-15	1.27E-12	4.86E-12	1.01E-09
2-NITROPHENOL	88-75-5	5.97E-16	9.64E-16	6.43E-16	3.81E-16
ACENAPHTHENE	83-32-9	1.26E-16	2.03E-16	1.35E-16	8.02E-17
ACETALDEHYDE	75-07-0	4.60E-14	7.44E-14	4.96E-14	2.94E-14
ACETONE	67-64-1	1.76E-14	2.85E-14	1.90E-14	1.12E-14
ACETONITRILE	75-05-8	1.07E-14	1.73E-14	1.15E-14	6.82E-15
ACROLEIN	107-02-8	2.96E-15	4.79E-15	3.19E-15	1.89E-15
ACRYLONITRILE	107-13-1	3.69E-14	5.95E-14	3.97E-14	2.35E-14
ALUMINUM	7429-90-5	4.24E-09	4.14E-08	2.74E-08	1.81E-05
AMMONIA	7664-41-7	4.29E-12	6.93E-12	4.62E-12	2.74E-12
ANTHRACENE	120-12-7	1.23E-16	1.98E-16	1.32E-16	7.84E-17
ANTIMONY	7440-36-0	8.99E-18	1.45E-17	9.68E-18	5.74E-18
ARSENIC	7440-38-2	1.20E-08	4.91E-08	7.67E-08	3.17E-06
BARIUM	7440-39-3	3.66E-09	1.50E-08	2.34E-08	9.66E-07
BENZ(A)ANTHRACENE	56-55-3	1.57E-10	2.71E-08	2.20E-09	1.87E-05

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
BENZENE	71-43-2	5.35E-15	8.65E-15	5.76E-15	3.42E-15
BENZO(A)PYRENE	50-32-8	1.13E-09	5.56E-08	2.42E-08	3.67E-05
BENZO(B)FLUORANTHENE	205-99-2	3.21E-10	2.92E-09	2.22E-09	1.22E-06
BENZO(K)FLUORANTHENE	207-08-9	1.03E-09	9.65E-08	1.77E-08	6.56E-05
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	1.84E-10	1.02E-09	1.27E-09	2.40E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	7.61E-09	1.08E-07	1.52E-04	3.98E-03
BUTYLBENZYLPHTHALATE	85-68-7	8.77E-11	6.28E-10	5.59E-10	2.14E-07
CADMIUM	7440-43-9	1.15E-09	4.76E-09	7.59E-09	3.63E-07
CARBON TETRACHLORIDE	56-23-5	3.84E-18	6.21E-18	4.14E-18	2.45E-18
CHLOROETHANE	75-00-3	2.12E-17	3.43E-17	2.29E-17	1.36E-17
CHLOROFORM	67-66-3	5.77E-18	9.32E-18	6.22E-18	3.69E-18
CHROMIUM	7440-47-3	1.33E-09	1.13E-06	9.34E-08	7.94E-04
CHRYSENE	218-01-9	3.96E-10	2.19E-08	3.75E-09	1.44E-05
COPPER	7440-50-8	1.79E-06	7.35E-06	1.14E-05	5.18E-04
CROTONALDEHYDE	123-73-9	3.02E-15	4.87E-15	3.25E-15	2.00E-15
CUMENE (ISOPROPYLBENZENE)	98-82-8	2.97E-17	4.80E-17	3.20E-17	1.90E-17
CYANIDE	57-12-5	9.55E-14	1.54E-13	1.03E-13	6.10E-14
DIBENZ(A,H)ANTHRACENE	53-70-3	2.65E-09	1.97E-08	1.78E-08	6.98E-06
DICHLORODIFLUOROMETHANE	75-71-8	1.97E-18	3.18E-18	2.12E-18	1.26E-18

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	1.32E-15	2.13E-15	1.42E-15	8.41E-16
DIMETHYL PHTHALATE	131-11-3	1.32E-15	2.13E-15	1.42E-15	8.43E-16
DI-N-BUTYL PHTHALATE	84-74-2	1.02E-10	1.33E-09	8.91E-09	8.86E-07
DI-N-OCTYL PHTHALATE	117-84-0	2.50E-09	4.11E-08	1.46E-01	3.77E+00
ETHYL ACRYLATE	140-88-5	2.10E-18	3.40E-18	2.27E-18	1.43E-18
ETHYLBENZENE	100-41-4	2.43E-16	3.93E-16	2.62E-16	1.55E-16
FLUORANTHENE	206-44-0	5.81E-12	1.16E-09	3.71E-11	8.02E-07
FORMALDEHYDE	50-00-0	5.46E-13	8.82E-13	5.88E-13	3.49E-13
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	8.99E-17	3.65E-16	5.69E-16	2.34E-14
HEXAVALENT CHROMIUM	18540-29-9	7.65E-20	1.24E-19	8.24E-20	4.88E-20
HYDROGEN CHLORIDE	7647-01-0	2.66E-23	4.29E-23	2.86E-23	1.70E-23
HYDROGEN CYANIDE	74-90-8	1.09E-12	1.76E-12	1.18E-12	7.46E-13
HYDROGEN FLOURIDE	7664-39-3	1.56E-14	2.52E-14	1.68E-14	1.01E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	2.06E-08	1.91E-07	1.44E-07	8.13E-05
LEAD	7439-92-1	5.89E-06	2.99E-05	3.78E-05	5.69E-03
MANGANESE	7439-96-5	1.98E-10	8.10E-10	1.26E-09	5.31E-08
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
METHYL CHLORIDE	74-87-3	8.89E-17	1.44E-16	9.57E-17	5.68E-17
METHYL ETHYL KETONE	78-93-3	3.68E-15	5.95E-15	3.97E-15	2.35E-15
METHYL ISOBUTYL KETONE	108-10-1	4.02E-16	6.49E-16	4.33E-16	2.57E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	3.77E-15	6.09E-15	4.06E-15	2.41E-15
METHYLNAPHTHALENE, 2-	91-57-6	2.57E-14	1.30E-12	1.63E-13	8.48E-10
MOLYBDENUM	7439-98-7	4.94E-10	2.05E-09	3.15E-09	1.56E-07
M-XYLENE	108-38-3	5.26E-16	8.50E-16	5.66E-16	3.36E-16
NAPHTHALENE	91-20-3	2.12E-14	3.42E-14	2.28E-14	1.35E-14
O-XYLENE	95-47-6	2.83E-16	4.58E-16	3.05E-16	1.81E-16
PHENANTHRENE	85-01-8	9.57E-16	1.55E-15	1.03E-15	6.11E-16
PHENOL	108-95-2	5.46E-15	8.82E-15	5.88E-15	3.49E-15
PHOSPHOROUS	7723-14-0	4.03E-16	1.11E-15	1.41E-15	5.07E-14
PROPIONALDEHYDE	123-38-6	3.06E-15	4.95E-15	3.30E-15	1.96E-15
P-XYLENE	106-42-3	5.46E-16	8.83E-16	5.88E-16	3.49E-16
PYRENE	129-00-0	1.10E-11	9.12E-09	7.04E-11	6.40E-06
PYRIDINE	110-86-1	4.34E-16	7.01E-16	4.68E-16	2.77E-16
SILVER	7440-22-4	7.32E-10	2.99E-09	4.67E-09	1.92E-07
STRONTIUM	7440-24-6	8.78E-10	3.62E-09	5.60E-09	2.61E-07
STYRENE	100-42-5	1.64E-15	2.64E-15	1.76E-15	1.04E-15

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Herbivorous Birds**	**Herbivorous Mammals**	**Omnivorous Birds**	**Omnivorous Mammals**
SULFURIC ACID	7664-93-9	3.02E-06	1.23E-05	1.93E-05	7.95E-04
TETRACHLOROETHYLENE	127-18-4	3.32E-18	5.36E-18	3.57E-18	2.12E-18
TETRAHYDROFURAN	109-99-9	2.52E-16	4.07E-16	2.71E-16	1.61E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	5.31E-10	2.67E-09	3.38E-09	4.94E-07
TOLUENE	108-88-3	4.60E-15	7.43E-15	4.95E-15	2.94E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	2.52E-18	4.07E-18	2.71E-18	1.61E-18
ZINC	7440-66-6	4.39E-09	1.82E-08	2.83E-08	1.37E-06

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6	1.37E-12	2.69E-13	2.40E-15	6.84E-14
1,2,4-TRIMETHYLBENZENE	95-63-6	5.37E-22	6.75E-18	3.12E-21	4.55E-22
1,3,5-TRIMETHYLBENZENE	108-67-8	5.78E-17	1.29E-16	3.41E-16	4.97E-17
1,3-BUTADIENE	106-99-0	2.04E-17	4.55E-17	1.20E-16	1.76E-17
1,4-DIOXANE	123-91-1	2.38E-16	5.30E-16	1.40E-15	2.04E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4	1.75E-11	4.55E-12	2.01E-13	9.87E-13
2-NITROPHENOL	88-75-5	4.59E-16	1.02E-15	2.71E-15	3.95E-16
ACENAPHTHENE	83-32-9	9.67E-17	2.16E-16	5.70E-16	8.31E-17
ACETALDEHYDE	75-07-0	3.54E-14	7.90E-14	2.09E-13	3.05E-14
ACETONE	67-64-1	1.35E-14	3.02E-14	7.99E-14	1.17E-14
ACETONITRILE	75-05-8	8.22E-15	1.83E-14	4.85E-14	7.07E-15
ACROLEIN	107-02-8	2.28E-15	5.08E-15	1.35E-14	1.96E-15
ACRYLONITRILE	107-13-1	2.84E-14	6.32E-14	1.67E-13	2.44E-14
ALUMINUM	7429-90-5	2.68E-07	5.20E-08	1.46E-12	1.31E-08
AMMONIA	7664-41-7	3.30E-12	7.36E-12	1.95E-11	2.84E-12
ANTHRACENE	120-12-7	9.45E-17	2.11E-16	5.58E-16	8.13E-17
ANTIMONY	7440-36-0	6.91E-18	1.54E-17	4.08E-17	5.95E-18
ARSENIC	7440-38-2	1.41E-10	5.79E-09	1.03E-12	6.97E-12
BARIUM	7440-39-3	4.63E-11	1.77E-09	3.12E-13	2.31E-12
BENZ(A)ANTHRACENE	56-55-3	2.95E-07	5.53E-08	3.14E-11	1.45E-08

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
BENZENE	71-43-2	4.12E-15	9.18E-15	2.43E-14	3.54E-15
BENZO(A)PYRENE	50-32-8	5.79E-07	1.13E-07	5.54E-10	2.86E-08
BENZO(B)FLUORANTHENE	205-99-2	1.80E-08	3.55E-09	4.46E-12	8.84E-10
BENZO(K)FLUORANTHENE	207-08-9	1.03E-06	1.96E-07	3.65E-10	5.08E-08
BENZYL CHLORIDE	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	3.05E-09	6.79E-10	2.81E-13	1.47E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.08E-04	6.12E-05	5.42E-06	8.11E-06
BUTYLBENZYLPHTHALATE	85-68-7	3.01E-09	6.01E-10	2.08E-14	1.47E-10
CADMIUM	7440-43-9	1.05E-09	8.19E-10	9.19E-13	4.30E-11
CARBON TETRACHLORIDE	56-23-5	2.96E-18	6.60E-18	1.74E-17	2.54E-18
CHLOROETHANE	75-00-3	1.63E-17	3.64E-17	9.63E-17	1.40E-17
CHLOROFORM	67-66-3	4.44E-18	9.90E-18	2.62E-17	3.82E-18
CHROMIUM	7440-47-3	1.25E-05	2.35E-06	2.53E-10	6.11E-07
CHRYSENE	218-01-9	2.26E-07	4.25E-08	3.20E-11	1.11E-08
COPPER	7440-50-8	7.73E-07	1.00E-06	1.81E-10	3.76E-08
CROTONALDEHYDE	123-73-9	2.32E-15	5.17E-15	1.37E-14	1.99E-15
CUMENE (ISOPROPYLBENZENE)	98-82-8	2.29E-17	5.10E-17	1.35E-16	1.97E-17
CYANIDE	57-12-5	7.35E-14	1.64E-13	4.34E-13	6.32E-14
DIBENZ(A,H)ANTHRACENE	53-70-3	9.94E-08	2.00E-08	3.91E-11	4.89E-09
DICHLORODIFLUOROMETHANE	75-71-8	1.52E-18	3.38E-18	8.94E-18	1.30E-18

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
DIETHYL PHTHALATE	84-66-2	1.01E-15	2.26E-15	5.98E-15	8.72E-16
DIMETHYL PHTHALATE	131-11-3	1.02E-15	2.27E-15	6.00E-15	8.74E-16
DI-N-BUTYL PHTHALATE	84-74-2	1.60E-08	5.26E-09	4.42E-11	5.65E-10
DI-N-OCTYL PHTHALATE	117-84-0	1.03E-01	5.87E-02	3.17E-03	4.72E-03
ETHYL ACRYLATE	140-88-5	1.62E-18	3.60E-18	9.54E-18	1.39E-18
ETHYLBENZENE	100-41-4	1.87E-16	4.17E-16	1.10E-15	1.61E-16
FLUORANTHENE	206-44-0	1.26E-08	2.35E-09	3.07E-15	6.18E-10
FORMALDEHYDE	50-00-0	4.20E-13	9.37E-13	2.48E-12	3.61E-13
HEXACHLOROBENZENE	118-74-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HEXANE, N-	110-54-3	6.75E-19	4.41E-17	3.86E-18	5.64E-19
HEXAVALENT CHROMIUM	18540-29-9	5.88E-20	1.31E-19	3.47E-19	5.06E-20
HYDROGEN CHLORIDE	7647-01-0	2.05E-23	4.56E-23	1.21E-22	1.76E-23
HYDROGEN CYANIDE	74-90-8	8.40E-13	1.87E-12	4.95E-12	7.22E-13
HYDROGEN FLOURIDE	7664-39-3	1.20E-14	2.68E-14	7.08E-14	1.03E-14
INDENO(1,2,3-CD)PYRENE	193-39-5	1.20E-06	2.37E-07	5.39E-10	5.92E-08
LEAD	7439-92-1	6.54E-05	1.50E-05	1.30E-09	3.19E-06
MANGANESE	7439-96-5	1.62E-11	9.81E-11	1.69E-14	7.92E-13
MERCURIC CHLORIDE	7487-94-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MERCURY	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
METHYL CHLORIDE	74-87-3	6.84E-17	1.52E-16	4.03E-16	5.88E-17
METHYL ETHYL KETONE	78-93-3	2.83E-15	6.32E-15	1.67E-14	2.44E-15
METHYL ISOBUTYL KETONE	108-10-1	3.09E-16	6.89E-16	1.82E-15	2.66E-16
METHYL MERCURY	22967-92-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	2.90E-15	6.47E-15	1.71E-14	2.49E-15
METHYLNAPHTHALENE, 2-	91-57-6	1.33E-11	2.48E-12	1.23E-15	6.50E-13
MOLYBDENUM	7439-98-7	4.16E-10	3.14E-10	4.33E-14	2.04E-11
M-XYLENE	108-38-3	4.05E-16	9.02E-16	2.39E-15	3.48E-16
NAPHTHALENE	91-20-3	1.63E-14	3.63E-14	9.60E-14	1.40E-14
O-XYLENE	95-47-6	2.18E-16	4.86E-16	1.29E-15	1.87E-16
PHENANTHRENE	85-01-8	7.36E-16	1.64E-15	4.34E-15	6.33E-16
PHENOL	108-95-2	4.20E-15	9.37E-15	2.48E-14	3.61E-15
PHOSPHOROUS	7723-14-0	2.01E-16	4.70E-16	9.93E-16	1.46E-16
PROPIONALDEHYDE	123-38-6	2.36E-15	5.26E-15	1.39E-14	2.03E-15
P-XYLENE	106-42-3	4.20E-16	9.37E-16	2.48E-15	3.61E-16
PYRENE	129-00-0	1.01E-07	1.88E-08	6.30E-15	4.94E-09
PYRIDINE	110-86-1	3.34E-16	7.45E-16	1.97E-15	2.87E-16
SILVER	7440-22-4	1.94E-12	3.51E-10	6.25E-14	1.01E-13
STRONTIUM	7440-24-6	4.72E-10	5.09E-10	7.55E-14	2.31E-11
STYRENE	100-42-5	1.26E-15	2.81E-15	7.43E-15	1.08E-15

Table 36 - Terrestrial Receptor Doses: Skid Burn 183 Day Scenario (mg/kg/day)					
COPC	**CAS**	**Insectivorous Birds**	**Insectivorous Mammals**	**Carnivorous Birds**	**Carnivorous Mammals**
SULFURIC ACID	7664-93-9	4.34E-11	1.45E-06	2.56E-10	3.74E-11
TETRACHLOROETHYLENE	127-18-4	2.55E-18	5.69E-18	1.51E-17	2.20E-18
TETRAHYDROFURAN	109-99-9	1.94E-16	4.32E-16	1.14E-15	1.67E-16
THALLIUM	7440-28-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TIN	7440-31-5	5.59E-09	1.29E-09	4.66E-14	2.73E-10
TOLUENE	108-88-3	3.54E-15	7.89E-15	2.09E-14	3.04E-15
TRICHLOROETHYLENE	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4	1.94E-18	4.32E-18	1.14E-17	1.67E-18
ZINC	7440-66-6	3.54E-09	2.84E-09	1.23E-12	1.65E-10

Table 37 - Terrestrial Community ESQs: Propellant 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00		0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00
ACENAPHTHENE	83-32-9		0.00E+00		0.00E+00
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00
ACETONITRILE	75-05-8		0.00E+00		0.00E+00
ACROLEIN	107-02-8		0.00E+00		0.00E+00
ACRYLONITRILE	107-13-1		0.00E+00		0.00E+00
ALUMINUM	7429-90-5	50.0	1.07E-06		0.00E+00
AMMONIA	7664-41-7		0.00E+00		0.00E+00
ANTHRACENE	120-12-7		0.00E+00		0.00E+00
ANTIMONY	7440-36-0	5.0	0.00E+00	0.8	0.00E+00
ARSENIC	7440-38-2	18.0	1.54E-09		0.00E+00
BARIUM	7440-39-3	500.0	1.84E-11	330.0	2.79E-11
BENZ(A)ANTHRACENE	56-55-3		0.00E+00		0.00E+00

Table 37 - Terrestrial Community ESQs: Propellant 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
BENZENE	71-43-2		0.00E+00		0.00E+00
BENZO(A)PYRENE	50-32-8		0.00E+00		0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00		0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10.0	5.96E-08	40.0	1.49E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00		0.00E+00
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00		0.00E+00
CADMIUM	7440-43-9	4.0	4.25E-08	0.2	8.51E-07
CARBON TETRACHLORIDE	56-23-5		0.00E+00		0.00E+00
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00		0.00E+00
CHROMIUM	7440-47-3	1.0	2.49E-03	0.4	6.23E-03
CHRYSENE	218-01-9		0.00E+00		0.00E+00
COPPER	7440-50-8	70.0	2.18E-06	50.0	3.06E-06
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00		0.00E+00
CYANIDE	57-12-5		0.00E+00		0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00

Table 37 - Terrestrial Community ESQs: Propellant 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
DIETHYL PHTHALATE	84-66-2		0.00E+00		0.00E+00
DIMETHYL PHTHALATE	131-11-3		0.00E+00	200.0	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00		0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00		0.00E+00
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00		0.00E+00
FLUORANTHENE	206-44-0		0.00E+00	47.0	5.36E-08
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00		0.00E+00
HEXANE, N-	110-54-3		0.00E+00		0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	1.0	0.00E+00	0.4	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00		0.00E+00
LEAD	7439-92-1	50.0	2.60E-04	500.0	2.60E-05
MANGANESE	7439-96-5	220.0	1.46E-11	450.0	7.15E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00		0.00E+00

Table 37 - Terrestrial Community ESQs: Propellant 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00		0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00		0.00E+00
MOLYBDENUM	7439-98-7	2.0	4.15E-08		0.00E+00
M-XYLENE	108-38-3	10.0	0.00E+00		0.00E+00
NAPHTHALENE	91-20-3		0.00E+00		0.00E+00
O-XYLENE	95-47-6		0.00E+00		0.00E+00
PHENANTHRENE	85-01-8		0.00E+00	21.0	0.00E+00
PHENOL	108-95-2	70.0	0.00E+00	30.0	0.00E+00
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10.0	0.00E+00		0.00E+00
PYRENE	129-00-0		0.00E+00	13.0	1.55E-06
PYRIDINE	110-86-1		0.00E+00		0.00E+00
SILVER	7440-22-4	2.0	1.86E-10		0.00E+00
STRONTIUM	7440-24-6		0.00E+00		0.00E+00
STYRENE	100-42-5	300.0	0.00E+00		0.00E+00

Table 37 - Terrestrial Community ESQs: Propellant 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00
TETRACHLOROETHYLENE	127-18-4		0.00E+00		0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1.0	0.00E+00		0.00E+00
TIN	7440-31-5	50.0	2.23E-08		0.00E+00
TOLUENE	108-88-3	200.0	0.00E+00		0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00		0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00
ZINC	7440-66-6	50.0	1.33E-08	6.6	1.01E-07
DIOXIN TEQ (1)					
CUMULATIVE ESQ			**2.75E-03**		**6.26E-03**
(1): See Appendix B for dioxin calculations					

Table 38 - Terrestrial Community ESQs: Propellant 8,000 lbs. Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00

Table 38 - Terrestrial Community ESQs: Propellant 8,000 lbs. Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00		0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00
ACENAPHTHENE	83-32-9		0.00E+00		0.00E+00
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00
ACETONITRILE	75-05-8		0.00E+00		0.00E+00
ACROLEIN	107-02-8		0.00E+00		0.00E+00
ACRYLONITRILE	107-13-1		0.00E+00		0.00E+00
ALUMINUM	7429-90-5	50	2.14E-06		0.00E+00
AMMONIA	7664-41-7		0.00E+00		0.00E+00
ANTHRACENE	120-12-7		0.00E+00		0.00E+00
ANTIMONY	7440-36-0	5	0.00E+00	0.78	0.00E+00
ARSENIC	7440-38-2	18	3.09E-09		0.00E+00
BARIUM	7440-39-3	500	3.69E-11	330	5.59E-11
BENZ(A)ANTHRACENE	56-55-3		0.00E+00		0.00E+00
BENZENE	71-43-2		0.00E+00		0.00E+00

Table 38 - Terrestrial Community ESQs: Propellant 8,000 lbs. Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
BENZO(A)PYRENE	50-32-8		0.00E+00		0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00		0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10	1.19E-07	40	2.98E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00		0.00E+00
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00		0.00E+00
CADMIUM	7440-43-9	4	8.52E-08	0.2	1.70E-06
CARBON TETRACHLORIDE	56-23-5		0.00E+00		0.00E+00
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00		0.00E+00
CHROMIUM	7440-47-3	1	4.99E-03	0.4	1.25E-02
CHRYSENE	218-01-9		0.00E+00		0.00E+00
COPPER	7440-50-8	70	4.37E-06	50	6.12E-06
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00		0.00E+00
CYANIDE	57-12-5		0.00E+00		0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00
DIETHYL PHTHALATE	84-66-2		0.00E+00		0.00E+00

Table 38 - Terrestrial Community ESQs: Propellant 8,000 lbs. Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
DIMETHYL PHTHALATE	131-11-3		0.00E+00	200	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00		0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00		0.00E+00
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00		0.00E+00
FLUORANTHENE	206-44-0		0.00E+00	47	1.07E-07
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00		0.00E+00
HEXANE, N-	110-54-3		0.00E+00		0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	1	0.00E+00	0.4	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00		0.00E+00
LEAD	7439-92-1	50	5.21E-04	500	5.21E-05
MANGANESE	7439-96-5	220	2.93E-11	450	1.43E-11
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00		0.00E+00
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00

Table 38 - Terrestrial Community ESQs: Propellant 8,000 lbs. Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00		0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00		0.00E+00
MOLYBDENUM	7439-98-7	2	8.31E-08		0.00E+00
M-XYLENE	108-38-3	10	0.00E+00		0.00E+00
NAPHTHALENE	91-20-3		0.00E+00		0.00E+00
O-XYLENE	95-47-6		0.00E+00		0.00E+00
PHENANTHRENE	85-01-8		0.00E+00	21	0.00E+00
PHENOL	108-95-2	70	0.00E+00	30	0.00E+00
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10	0.00E+00		0.00E+00
PYRENE	129-00-0		0.00E+00	13	3.10E-06
PYRIDINE	110-86-1		0.00E+00		0.00E+00
SILVER	7440-22-4	2	3.73E-10		0.00E+00
STRONTIUM	7440-24-6		0.00E+00		0.00E+00
STYRENE	100-42-5	300	0.00E+00		0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00

Table 38 - Terrestrial Community ESQs: Propellant 8,000 lbs. Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
TETRACHLOROETHYLENE	127-18-4		0.00E+00		0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1	0.00E+00		0.00E+00
TIN	7440-31-5	50	4.46E-08		0.00E+00
TOLUENE	108-88-3	200	0.00E+00		0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00		0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00
ZINC	7440-66-6	50	2.67E-08	6.62	2.02E-07
DIOXIN TEQ (1)					
CUMULATIVE ESQ			**5.51E-03**		**1.25E-02**
(1): See Appendix B for dioxin calculations					

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.06E-16	5.06E-17
1,2,4-TRIMETHYLBENZENE	95-63-6		9.00E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.27E-15	0.00E+00
1,3-BUTADIENE	106-99-0		1.30E-14	0.00E+00
1,4-DIOXANE	123-91-1		1.05E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		9.08E-15	9.08E-15
2-NITROPHENOL	88-75-5		1.52E-19	0.00E+00
ACENAPHTHENE	83-32-9		1.98E-13	0.00E+00
ACETALDEHYDE	75-07-0		7.59E-14	0.00E+00
ACETONE	67-64-1		4.61E-14	0.00E+00
ACETONITRILE	75-05-8		1.28E-14	0.00E+00
ACROLEIN	107-02-8		1.59E-13	0.00E+00
ACRYLONITRILE	107-13-1		5.28E-16	0.00E+00
ALUMINUM	7429-90-5	109.7	2.71E-08	2.47E-10
AMMONIA	7664-41-7		1.24E-16	0.00E+00
ANTHRACENE	120-12-7		3.88E-17	0.00E+00
ANTIMONY	7440-36-0		9.65E-12	0.00E+00
ARSENIC	7440-38-2	2.5	7.68E-08	3.07E-08
BARIUM	7440-39-3	20.8	2.34E-08	1.13E-09
BENZ(A)ANTHRACENE	56-55-3		6.81E-10	0.00E+00
BENZENE	71-43-2		1.50E-13	0.00E+00
BENZO(A)PYRENE	50-32-8		3.01E-09	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		5.95E-10	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		2.29E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		1.51E-13	0.00E+00
BERYLLIUM	7440-41-7		1.18E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	4.85E-08	4.41E-08

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		5.61E-10	0.00E+00
CADMIUM	7440-43-9	1.5	7.33E-09	5.05E-09
CARBON TETRACHLORIDE	56-23-5		9.15E-17	0.00E+00
CHLOROETHANE	75-00-3		2.49E-17	0.00E+00
CHLOROFORM	67-66-3		2.08E-12	0.00E+00
CHROMIUM	7440-47-3	1.0	5.99E-09	5.99E-09
CHRYSENE	218-01-9		9.10E-10	0.00E+00
COPPER	7440-50-8	47.0	1.14E-05	2.43E-07
CROTONALDEHYDE	123-73-9		1.07E-17	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		4.12E-13	0.00E+00
CYANIDE	57-12-5		2.67E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		4.78E-09	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		5.68E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2		5.70E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.33E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		6.52E-10	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.59E-08	0.00E+00
ETHYL ACRYLATE	140-88-5		4.70E-12	0.00E+00
ETHYLBENZENE	100-41-4		1.25E-11	0.00E+00
FLUORANTHENE	206-44-0		3.95E-11	0.00E+00
FORMALDEHYDE	50-00-0		0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		1.15E-22	0.00E+00
HEXANE, N-	110-54-3		1.76E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		8.13E-14	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		6.69E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		6.76E-14	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		4.09E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.79E-08	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.1	3.76E-05	3.33E-05
MANGANESE	7439-96-5	997.0	1.27E-09	1.27E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		3.83E-16	0.00E+00
METHYL CHLORIDE	74-87-3		1.59E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.73E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.63E-14	0.00E+00
METHYL MERCURY	22967-92-6		4.80E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2		9.12E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.45E-09	0.00E+00
MOLYBDENUM	7439-98-7	3.5	3.16E-09	9.02E-10
M-XYLENE	108-38-3		1.22E-15	0.00E+00
NAPHTHALENE	91-20-3		2.57E-15	0.00E+00
O-XYLENE	95-47-6		2.36E-15	0.00E+00
PHENANTHRENE	85-01-8		2.35E-14	0.00E+00
PHENOL	108-95-2		2.45E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.44E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		7.12E-13	0.00E+00
P-XYLENE	106-42-3		3.55E-12	0.00E+00
PYRENE	129-00-0		7.06E-11	0.00E+00
PYRIDINE	110-86-1		5.87E-13	0.00E+00
SILVER	7440-22-4	4.2	4.68E-09	1.11E-09
STRONTIUM	7440-24-6		5.61E-09	0.00E+00
STYRENE	100-42-5		1.43E-17	0.00E+00
SULFURIC ACID	7664-93-9		4.40E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.09E-15	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Northern Bobwhite Dose**	**Northern Bobwhite ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		1.98E-14	0.00E+00
TIN	7440-31-5	6.8	3.39E-09	4.99E-10
TOLUENE	108-88-3		0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6		1.09E-17	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		3.24E-16	0.00E+00
ZINC	7440-66-6	14.5	2.80E-08	1.93E-09
DIOXIN TEQ (1)				6.52E-10
CUMULATIVE ESQ				**3.36E-05**
(1): See Appendix B for dioxin calculations				

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		9.54E-14	9.54E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		5.74E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.44E-15	0.00E+00
1,3-BUTADIENE	106-99-0		1.40E-14	0.00E+00
1,4-DIOXANE	123-91-1		1.13E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		7.78E-12	7.78E-12
2-NITROPHENOL	88-75-5		1.64E-19	0.00E+00
ACENAPHTHENE	83-32-9		2.14E-13	0.00E+00
ACETALDEHYDE	75-07-0		8.18E-14	0.00E+00
ACETONE	67-64-1		4.96E-14	0.00E+00
ACETONITRILE	75-05-8		1.38E-14	0.00E+00
ACROLEIN	107-02-8		1.71E-13	0.00E+00
ACRYLONITRILE	107-13-1		5.68E-16	0.00E+00
ALUMINUM	7429-90-5	109.7	1.74E-07	1.58E-09
AMMONIA	7664-41-7		1.82E-16	0.00E+00
ANTHRACENE	120-12-7		4.17E-17	0.00E+00
ANTIMONY	7440-36-0		1.04E-11	0.00E+00
ARSENIC	7440-38-2	2.5	4.90E-07	1.96E-07
BARIUM	7440-39-3	20.8	1.49E-07	7.18E-09
BENZ(A)ANTHRACENE	56-55-3		6.26E-09	0.00E+00
BENZENE	71-43-2		1.62E-13	0.00E+00
BENZO(A)PYRENE	50-32-8		4.63E-08	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		4.07E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.24E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		1.63E-13	0.00E+00
BERYLLIUM	7440-41-7		7.66E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	2.43E-04	2.21E-04
BUTYLBENZYLPHTHALATE	85-68-7		3.57E-09	0.00E+00
CADMIUM	7440-43-9	1.5	4.72E-08	3.25E-08

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
CARBON TETRACHLORIDE	56-23-5		9.85E-17	0.00E+00
CHLOROETHANE	75-00-3		2.68E-17	0.00E+00
CHLOROFORM	67-66-3		2.24E-12	0.00E+00
CHROMIUM	7440-47-3	1.0	1.74E-07	1.74E-07
CHRYSENE	218-01-9		7.76E-09	0.00E+00
COPPER	7440-50-8	47.0	7.27E-05	1.55E-06
CROTONALDEHYDE	123-73-9		2.04E-17	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		4.44E-13	0.00E+00
CYANIDE	57-12-5		2.87E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		3.20E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		6.12E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2		6.13E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.43E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.73E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		2.34E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		5.07E-12	0.00E+00
ETHYLBENZENE	100-41-4		1.34E-11	0.00E+00
FLUORANTHENE	206-44-0		2.39E-10	0.00E+00
FORMALDEHYDE	50-00-0		0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		1.23E-22	0.00E+00
HEXANE, N-	110-54-3		4.91E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		8.76E-14	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		7.21E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.46E-14	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		4.40E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.63E-07	0.00E+00
LEAD	7439-92-1	1.1	2.40E-04	2.13E-04
MANGANESE	7439-96-5	997.0	8.08E-09	8.11E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		4.13E-16	0.00E+00
METHYL CHLORIDE	74-87-3		1.71E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.87E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.75E-14	0.00E+00
METHYL MERCURY	22967-92-6		5.17E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2		9.82E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.56E-09	0.00E+00
MOLYBDENUM	7439-98-7	3.5	2.01E-08	5.75E-09
M-XYLENE	108-38-3		1.32E-15	0.00E+00
NAPHTHALENE	91-20-3		2.77E-15	0.00E+00
O-XYLENE	95-47-6		2.54E-15	0.00E+00
PHENANTHRENE	85-01-8		2.54E-14	0.00E+00
PHENOL	108-95-2		2.63E-14	0.00E+00
PHOSPHOROUS	7723-14-0		2.17E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		7.67E-13	0.00E+00
P-XYLENE	106-42-3		3.82E-12	0.00E+00
PYRENE	129-00-0		4.50E-10	0.00E+00
PYRIDINE	110-86-1		6.32E-13	0.00E+00
SILVER	7440-22-4	4.2	2.98E-08	7.10E-09
STRONTIUM	7440-24-6		3.58E-08	0.00E+00
STYRENE	100-42-5		1.54E-17	0.00E+00
SULFURIC ACID	7664-93-9		4.73E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.17E-15	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00
THALLIUM	7440-28-0		2.13E-14	0.00E+00
TIN	7440-31-5	6.8	2.16E-08	3.18E-09
TOLUENE	108-88-3		0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6		1.17E-17	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**American Robin Dose**	**American Robin ESQ**
		mg/kg/day	mg/kg/day	Unitless
TRICHLOROFLUOROMETHANE	75-69-4		3.49E-16	0.00E+00
ZINC	7440-66-6	14.5	1.79E-07	1.24E-08
DIOXIN TEQ (1)				5.57E-07
CUMULATIVE ESQ				**4.37E-04**
(1): See Appendix B for dioxin calculations				

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.18E-12	2.18E-13
1,2,4-TRIMETHYLBENZENE	95-63-6		1.28E-23	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.74E-15	0.00E+00
1,3-BUTADIENE	106-99-0		1.00E-14	0.00E+00
1,4-DIOXANE	123-91-1		8.07E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.79E-11	2.79E-11
2-NITROPHENOL	88-75-5		1.17E-19	0.00E+00
ACENAPHTHENE	83-32-9		1.53E-13	0.00E+00
ACETALDEHYDE	75-07-0		5.84E-14	0.00E+00
ACETONE	67-64-1		3.54E-14	0.00E+00
ACETONITRILE	75-05-8		9.83E-15	0.00E+00
ACROLEIN	107-02-8		1.22E-13	0.00E+00
ACRYLONITRILE	107-13-1		4.06E-16	0.00E+00
ALUMINUM	7429-90-5	109.7	4.29E-07	3.91E-09
AMMONIA	7664-41-7		8.83E-17	0.00E+00
ANTHRACENE	120-12-7		2.98E-17	0.00E+00
ANTIMONY	7440-36-0		7.42E-12	0.00E+00
ARSENIC	7440-38-2	2.5	2.27E-10	9.08E-11
BARIUM	7440-39-3	20.8	7.40E-11	3.56E-12
BENZ(A)ANTHRACENE	56-55-3		4.72E-07	0.00E+00
BENZENE	71-43-2		1.16E-13	0.00E+00
BENZO(A)PYRENE	50-32-8		9.25E-07	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		2.88E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.65E-06	0.00E+00
BENZYL CHLORIDE	100-44-7		1.16E-13	0.00E+00
BERYLLIUM	7440-41-7		4.87E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.73E-04	1.57E-04

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		4.81E-09	0.00E+00
CADMIUM	7440-43-9	1.5	1.67E-09	1.15E-09
CARBON TETRACHLORIDE	56-23-5		7.04E-17	0.00E+00
CHLOROETHANE	75-00-3		1.91E-17	0.00E+00
CHLOROFORM	67-66-3		1.60E-12	0.00E+00
CHROMIUM	7440-47-3	1.0	2.00E-05	2.00E-05
CHRYSENE	218-01-9		3.61E-07	0.00E+00
COPPER	7440-50-8	47.0	1.23E-06	2.63E-08
CROTONALDEHYDE	123-73-9		7.17E-18	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		3.17E-13	0.00E+00
CYANIDE	57-12-5		2.05E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.59E-07	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		4.37E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2		4.38E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.02E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		2.56E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.65E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		3.62E-12	0.00E+00
ETHYLBENZENE	100-41-4		9.60E-12	0.00E+00
FLUORANTHENE	206-44-0		2.02E-08	0.00E+00
FORMALDEHYDE	50-00-0		0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		8.82E-23	0.00E+00
HEXANE, N-	110-54-3		9.16E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		6.25E-14	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		5.15E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		5.26E-14	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		3.14E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.92E-06	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.1	1.04E-04	9.24E-05
MANGANESE	7439-96-5	997.0	2.85E-11	2.86E-14
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		2.95E-16	0.00E+00
METHYL CHLORIDE	74-87-3		1.22E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.33E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.25E-14	0.00E+00
METHYL MERCURY	22967-92-6		3.69E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2		7.02E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.13E-09	0.00E+00
MOLYBDENUM	7439-98-7	3.5	6.65E-10	1.90E-10
M-XYLENE	108-38-3		9.39E-16	0.00E+00
NAPHTHALENE	91-20-3		1.98E-15	0.00E+00
O-XYLENE	95-47-6		1.81E-15	0.00E+00
PHENANTHRENE	85-01-8		1.81E-14	0.00E+00
PHENOL	108-95-2		1.88E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.02E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		5.48E-13	0.00E+00
P-XYLENE	106-42-3		2.73E-12	0.00E+00
PYRENE	129-00-0		1.61E-07	0.00E+00
PYRIDINE	110-86-1		4.52E-13	0.00E+00
SILVER	7440-22-4	4.2	3.09E-12	7.35E-13
STRONTIUM	7440-24-6		7.55E-10	0.00E+00
STYRENE	100-42-5		1.10E-17	0.00E+00
SULFURIC ACID	7664-93-9		3.38E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		8.36E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**American Woodcock Dose**	**American Woodcock ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		1.52E-14	0.00E+00
TIN	7440-31-5	6.8	8.93E-09	1.31E-09
TOLUENE	108-88-3		0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6		8.36E-18	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.49E-16	0.00E+00
ZINC	7440-66-6	14.5	5.66E-09	3.91E-10
DIOXIN TEQ (1)				2.01E-06
CUMULATIVE ESQ				**2.72E-04**
(1): See Appendix B for dioxin calculations				

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		3.84E-15	3.84E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.03E-14	0.00E+00
1,3-BUTADIENE	106-99-0		5.90E-14	0.00E+00
1,4-DIOXANE	123-91-1		4.76E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		3.41E-13	3.41E-13
2-NITROPHENOL	88-75-5		6.91E-19	0.00E+00
ACENAPHTHENE	83-32-9		9.01E-13	0.00E+00
ACETALDEHYDE	75-07-0		3.45E-13	0.00E+00
ACETONE	67-64-1		2.09E-13	0.00E+00
ACETONITRILE	75-05-8		5.80E-14	0.00E+00
ACROLEIN	107-02-8		7.21E-13	0.00E+00
ACRYLONITRILE	107-13-1		2.39E-15	0.00E+00
ALUMINUM	7429-90-5	109.7	8.57E-11	7.81E-13
AMMONIA	7664-41-7		5.19E-16	0.00E+00
ANTHRACENE	120-12-7		1.76E-16	0.00E+00
ANTIMONY	7440-36-0		4.38E-11	0.00E+00
ARSENIC	7440-38-2	2.5	1.34E-11	5.34E-12
BARIUM	7440-39-3	20.8	1.05E-13	5.07E-15
BENZ(A)ANTHRACENE	56-55-3		5.19E-11	0.00E+00
BENZENE	71-43-2		6.83E-13	0.00E+00
BENZO(A)PYRENE	50-32-8		8.85E-10	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		8.06E-12	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.83E-10	0.00E+00
BENZYL CHLORIDE	100-44-7		6.85E-13	0.00E+00
BERYLLIUM	7440-41-7		1.10E-12	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	8.65E-06	7.87E-06

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Red Tailed Hawk Dose	Red Tailed Hawk ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		4.21E-12	0.00E+00
CADMIUM	7440-43-9	1.5	1.31E-12	9.07E-13
CARBON TETRACHLORIDE	56-23-5		4.15E-16	0.00E+00
CHLOROETHANE	75-00-3		1.13E-16	0.00E+00
CHLOROFORM	67-66-3		9.42E-12	0.00E+00
CHROMIUM	7440-47-3	1.0	4.03E-10	4.03E-10
CHRYSENE	218-01-9		5.11E-11	0.00E+00
COPPER	7440-50-8	47.0	4.52E-11	9.62E-13
CROTONALDEHYDE	123-73-9		4.11E-17	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.87E-12	0.00E+00
CYANIDE	57-12-5		1.21E-12	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		6.24E-11	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.58E-14	0.00E+00
DIETHYL PHTHALATE	84-66-2		2.58E-14	0.00E+00
DIMETHYL PHTHALATE	131-11-3		6.05E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		8.93E-11	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		5.06E-03	0.00E+00
ETHYL ACRYLATE	140-88-5		2.13E-11	0.00E+00
ETHYLBENZENE	100-41-4		5.66E-11	0.00E+00
FLUORANTHENE	206-44-0		1.07E-11	0.00E+00
FORMALDEHYDE	50-00-0		0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		5.20E-22	0.00E+00
HEXANE, N-	110-54-3		5.41E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		3.69E-13	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		3.04E-12	0.00E+00
HYDROGEN CYANIDE	74-90-8		3.05E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.85E-12	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		8.62E-10	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Red Tailed Hawk Dose	Red Tailed Hawk ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.1	1.26E-09	1.12E-09
MANGANESE	7439-96-5	997.0	1.61E-11	1.62E-14
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		1.74E-15	0.00E+00
METHYL CHLORIDE	74-87-3		7.21E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3		7.86E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		7.38E-14	0.00E+00
METHYL MERCURY	22967-92-6		2.18E-08	0.00E+00
METHYLENE CHLORIDE	75-09-2		4.14E-13	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		6.56E-09	0.00E+00
MOLYBDENUM	7439-98-7	3.5	4.28E-15	1.22E-15
M-XYLENE	108-38-3		5.54E-15	0.00E+00
NAPHTHALENE	91-20-3		1.17E-14	0.00E+00
O-XYLENE	95-47-6		1.07E-14	0.00E+00
PHENANTHRENE	85-01-8		1.07E-13	0.00E+00
PHENOL	108-95-2		1.11E-13	0.00E+00
PHOSPHOROUS	7723-14-0		6.00E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		3.23E-12	0.00E+00
P-XYLENE	106-42-3		1.61E-11	0.00E+00
PYRENE	129-00-0		8.49E-15	0.00E+00
PYRIDINE	110-86-1		2.66E-12	0.00E+00
SILVER	7440-22-4	4.2	3.26E-14	7.76E-15
STRONTIUM	7440-24-6		0.00E+00	0.00E+00
STYRENE	100-42-5		6.49E-17	0.00E+00
SULFURIC ACID	7664-93-9		2.00E-12	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.93E-15	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 39 - Terrestrial Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		9.00E-14	0.00E+00
TIN	7440-31-5	6.8	6.18E-20	9.09E-21
TOLUENE	108-88-3		0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6		4.93E-17	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.47E-15	0.00E+00
ZINC	7440-66-6	14.5	1.36E-12	9.38E-14
DIOXIN TEQ (1)				2.44E-08
CUMULATIVE ESQ				**7.89E-06**
(1): See Appendix B for dioxin calculations				

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Meadow Vole Dose**	**Meadow Vole ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.92E-13	5.77E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		3.67E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		3.66E-15	0.00E+00
1,3-BUTADIENE	106-99-0		2.10E-14	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.69E-15	1.21E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.04E-12	6.13E-13
2-NITROPHENOL	88-75-5		2.46E-19	0.00E+00
ACENAPHTHENE	83-32-9		3.21E-13	0.00E+00
ACETALDEHYDE	75-07-0		1.23E-13	0.00E+00
ACETONE	67-64-1	2.8	7.44E-14	2.66E-14
ACETONITRILE	75-05-8		2.06E-14	0.00E+00
ACROLEIN	107-02-8		2.57E-13	0.00E+00
ACRYLONITRILE	107-13-1		8.52E-16	0.00E+00
ALUMINUM	7429-90-5	0.293	1.49E-07	5.09E-07
AMMONIA	7664-41-7		2.23E-16	0.00E+00
ANTHRACENE	120-12-7		6.26E-17	0.00E+00
ANTIMONY	7440-36-0	0.019	1.56E-11	8.20E-10
ARSENIC	7440-38-2	0.019	3.13E-07	1.65E-05
BARIUM	7440-39-3	1.5	9.56E-08	6.37E-08
BENZ(A)ANTHRACENE	56-55-3		4.51E-08	0.00E+00
BENZENE	71-43-2	4	2.43E-13	6.08E-14
BENZO(A)PYRENE	50-32-8	0.15	9.37E-08	6.25E-07
BENZO(B)FLUORANTHENE	205-99-2		5.00E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.57E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		2.44E-13	0.00E+00
BERYLLIUM	7440-41-7	0.19	5.24E-09	2.76E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	3.21E-07	1.28E-07

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		2.72E-09	0.00E+00
CADMIUM	7440-43-9	0.271	3.00E-08	1.11E-07
CARBON TETRACHLORIDE	56-23-5	4.5	1.48E-16	3.28E-17
CHLOROETHANE	75-00-3		4.02E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	3.35E-12	7.99E-13
CHROMIUM	7440-47-3	768	1.82E-06	2.37E-09
CHRYSENE	218-01-9		3.61E-08	0.00E+00
COPPER	7440-50-8	4.3	4.67E-05	1.08E-05
CROTONALDEHYDE	123-73-9		2.15E-17	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		6.65E-13	0.00E+00
CYANIDE	57-12-5	18.1	4.31E-13	2.38E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		3.37E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		9.18E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	9.20E-15	1.32E-17
DIMETHYL PHTHALATE	131-11-3	3500	2.15E-15	6.15E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	4.12E-09	4.96E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.14E-07	1.17E-11
ETHYL ACRYLATE	140-88-5		7.60E-12	0.00E+00
ETHYLBENZENE	100-41-4		2.01E-11	0.00E+00
FLUORANTHENE	206-44-0		1.97E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		1.85E-22	0.00E+00
HEXANE, N-	110-54-3		4.25E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.31E-13	1.43E-13
HYDROGEN CHLORIDE	7647-01-0		1.08E-12	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.10E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		6.60E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.26E-07	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	1.63E-04	7.27E-05
MANGANESE	7439-96-5	25	5.18E-09	2.07E-10
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		6.19E-16	0.00E+00
METHYL CHLORIDE	74-87-3		2.57E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	2.80E-15	5.63E-18
METHYL ISOBUTYL KETONE	108-10-1	7	2.63E-14	3.75E-15
METHYL MERCURY	22967-92-6		7.75E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.47E-13	9.21E-14
METHYLNAPHTHALENE, 2-	91-57-6		2.34E-09	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.29E-08	3.24E-07
M-XYLENE	108-38-3		1.97E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	4.16E-15	1.66E-15
O-XYLENE	95-47-6		3.81E-15	0.00E+00
PHENANTHRENE	85-01-8		3.80E-14	0.00E+00
PHENOL	108-95-2		3.95E-14	0.00E+00
PHOSPHOROUS	7723-14-0		2.62E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		1.15E-12	0.00E+00
P-XYLENE	106-42-3		5.73E-12	0.00E+00
PYRENE	129-00-0		1.48E-08	0.00E+00
PYRIDINE	110-86-1		9.48E-13	0.00E+00
SILVER	7440-22-4	14	1.91E-08	1.36E-09
STRONTIUM	7440-24-6	74	2.30E-08	3.10E-10
STYRENE	100-42-5		2.31E-17	0.00E+00
SULFURIC ACID	7664-93-9		7.10E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.76E-15	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Meadow Vole Dose**	**Meadow Vole ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	3.20E-14	1.60E-11
TIN	7440-31-5	3.6	1.46E-08	4.07E-09
TOLUENE	108-88-3	3.9	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.106	1.75E-17	1.66E-16
TRICHLOROFLUOROMETHANE	75-69-4		5.23E-16	0.00E+00
ZINC	7440-66-6	44.9	1.15E-07	2.56E-09
DIOXIN TEQ (1)				2.06E-06
CUMULATIVE ESQ				**1.04E-04**
(1): See Appendix B for dioxin calculations				

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.37E-10	4.10E-12
1,2,4-TRIMETHYLBENZENE	95-63-6		2.37E-14	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.45E-15	0.00E+00
1,3-BUTADIENE	106-99-0		8.32E-15	0.00E+00
1,4-DIOXANE	123-91-1	0.14	6.70E-16	4.78E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.62E-09	4.87E-10
2-NITROPHENOL	88-75-5		9.72E-20	0.00E+00
ACENAPHTHENE	83-32-9		1.27E-13	0.00E+00
ACETALDEHYDE	75-07-0		4.85E-14	0.00E+00
ACETONE	67-64-1	2.8	2.94E-14	1.05E-14
ACETONITRILE	75-05-8		8.16E-15	0.00E+00
ACROLEIN	107-02-8		1.01E-13	0.00E+00
ACRYLONITRILE	107-13-1		3.37E-16	0.00E+00
ALUMINUM	7429-90-5	0.293	3.43E-05	1.17E-04
AMMONIA	7664-41-7		2.52E-15	0.00E+00
ANTHRACENE	120-12-7		2.47E-17	0.00E+00
ANTIMONY	7440-36-0	0.019	6.16E-12	3.24E-10
ARSENIC	7440-38-2	0.019	2.02E-05	1.06E-03
BARIUM	7440-39-3	1.5	6.16E-06	4.11E-06
BENZ(A)ANTHRACENE	56-55-3		3.00E-05	0.00E+00
BENZENE	71-43-2	4	9.61E-14	2.40E-14
BENZO(A)PYRENE	50-32-8	0.15	5.89E-05	3.93E-04
BENZO(B)FLUORANTHENE	205-99-2		1.98E-06	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.05E-04	0.00E+00
BENZYL CHLORIDE	100-44-7		9.64E-14	0.00E+00
BERYLLIUM	7440-41-7	0.19	6.16E-07	3.24E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	6.36E-03	2.54E-03

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		4.52E-07	0.00E+00
CADMIUM	7440-43-9	0.271	2.02E-06	7.47E-06
CARBON TETRACHLORIDE	56-23-5	4.5	5.84E-17	1.30E-17
CHLOROETHANE	75-00-3		1.59E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	1.33E-12	3.16E-13
CHROMIUM	7440-47-3	768	1.27E-03	1.65E-06
CHRYSENE	218-01-9		2.31E-05	0.00E+00
COPPER	7440-50-8	4.3	3.08E-03	7.15E-04
CROTONALDEHYDE	123-73-9		4.58E-16	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.63E-13	0.00E+00
CYANIDE	57-12-5	18.1	1.70E-13	9.41E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		1.13E-05	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		3.63E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	3.64E-15	5.22E-18
DIMETHYL PHTHALATE	131-11-3	3500	8.51E-16	2.43E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	1.54E-06	1.86E-08
DI-N-OCTYL PHTHALATE	117-84-0	9780	6.02E+00	6.16E-04
ETHYL ACRYLATE	140-88-5		3.00E-12	0.00E+00
ETHYLBENZENE	100-41-4		7.96E-12	0.00E+00
FLUORANTHENE	206-44-0		1.29E-06	0.00E+00
FORMALDEHYDE	50-00-0	6.4	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		7.32E-23	0.00E+00
HEXANE, N-	110-54-3		1.50E-13	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	5.19E-14	5.64E-14
HYDROGEN CHLORIDE	7647-01-0		4.27E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.91E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.62E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.31E-04	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	1.65E-02	7.37E-03
MANGANESE	7439-96-5	25	3.35E-07	1.34E-08
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		2.45E-16	0.00E+00
METHYL CHLORIDE	74-87-3		1.01E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	1.11E-15	2.23E-18
METHYL ISOBUTYL KETONE	108-10-1	7	1.04E-14	1.48E-15
METHYL MERCURY	22967-92-6		3.06E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	5.82E-14	3.64E-14
METHYLNAPHTHALENE, 2-	91-57-6		2.31E-09	0.00E+00
MOLYBDENUM	7439-98-7	0.04	8.72E-07	2.18E-05
M-XYLENE	108-38-3		7.80E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.64E-15	6.57E-16
O-XYLENE	95-47-6		1.50E-15	0.00E+00
PHENANTHRENE	85-01-8		1.50E-14	0.00E+00
PHENOL	108-95-2		1.56E-14	0.00E+00
PHOSPHOROUS	7723-14-0		3.22E-13	0.00E+00
PROPIONALDEHYDE	123-38-6		4.55E-13	0.00E+00
P-XYLENE	106-42-3		2.27E-12	0.00E+00
PYRENE	129-00-0		1.02E-05	0.00E+00
PYRIDINE	110-86-1		3.75E-13	0.00E+00
SILVER	7440-22-4	14	1.23E-06	8.78E-08
STRONTIUM	7440-24-6	74	1.52E-06	2.06E-08
STYRENE	100-42-5		9.13E-18	0.00E+00
SULFURIC ACID	7664-93-9		2.81E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		6.94E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Raccoon Dose**	**Raccoon ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	1.27E-14	6.33E-12
TIN	7440-31-5	3.6	1.46E-06	4.05E-07
TOLUENE	108-88-3	3.9	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.106	6.93E-18	6.54E-17
TRICHLOROFLUOROMETHANE	75-69-4		2.07E-16	0.00E+00
ZINC	7440-66-6	44.9	7.71E-06	1.72E-07
DIOXIN TEQ (1)				1.64E-03
CUMULATIVE ESQ				**1.45E-02**
(1): See Appendix B for dioxin calculations				

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		4.30E-13	1.29E-14
1,2,4-TRIMETHYLBENZENE	95-63-6		4.31E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		3.89E-15	0.00E+00
1,3-BUTADIENE	106-99-0		2.23E-14	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.80E-15	1.29E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		7.28E-12	2.18E-12
2-NITROPHENOL	88-75-5		2.61E-19	0.00E+00
ACENAPHTHENE	83-32-9		3.40E-13	0.00E+00
ACETALDEHYDE	75-07-0		1.30E-13	0.00E+00
ACETONE	67-64-1	2.8	7.91E-14	2.82E-14
ACETONITRILE	75-05-8		2.19E-14	0.00E+00
ACROLEIN	107-02-8		2.73E-13	0.00E+00
ACRYLONITRILE	107-13-1		9.05E-16	0.00E+00
ALUMINUM	7429-90-5	0.293	9.28E-08	3.17E-07
AMMONIA	7664-41-7		2.01E-16	0.00E+00
ANTHRACENE	120-12-7		6.65E-17	0.00E+00
ANTIMONY	7440-36-0	0.019	1.65E-11	8.71E-10
ARSENIC	7440-38-2	0.019	3.69E-08	1.94E-06
BARIUM	7440-39-3	1.5	1.12E-08	7.49E-09
BENZ(A)ANTHRACENE	56-55-3		8.85E-08	0.00E+00
BENZENE	71-43-2	4	2.58E-13	6.45E-14
BENZO(A)PYRENE	50-32-8	0.15	1.81E-07	1.20E-06
BENZO(B)FLUORANTHENE	205-99-2		5.71E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.13E-07	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BENZYL CHLORIDE	100-44-7		2.59E-13	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.51E-09	7.94E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	9.78E-05	3.91E-05
BUTYLBENZYLPHTHALATE	85-68-7		1.16E-09	0.00E+00
CADMIUM	7440-43-9	0.271	3.94E-09	1.45E-08
CARBON TETRACHLORIDE	56-23-5	4.5	1.57E-16	3.49E-17
CHLOROETHANE	75-00-3		4.27E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	3.56E-12	8.48E-13
CHROMIUM	7440-47-3	768	3.76E-06	4.90E-09
CHRYSENE	218-01-9		6.81E-08	0.00E+00
COPPER	7440-50-8	4.3	5.70E-06	1.33E-06
CROTONALDEHYDE	123-73-9		1.64E-17	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		7.07E-13	0.00E+00
CYANIDE	57-12-5	18.1	4.58E-13	2.53E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		3.22E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		9.74E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	9.77E-15	1.40E-17
DIMETHYL PHTHALATE	131-11-3	3500	2.29E-15	6.53E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	8.64E-09	1.04E-10
DI-N-OCTYL PHTHALATE	117-84-0	9780	9.38E-02	9.59E-06
ETHYL ACRYLATE	140-88-5		8.07E-12	0.00E+00
ETHYLBENZENE	100-41-4		2.14E-11	0.00E+00
FLUORANTHENE	206-44-0		3.77E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		1.97E-22	0.00E+00
HEXANE, N-	110-54-3		2.32E-15	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.39E-13	1.52E-13
HYDROGEN CHLORIDE	7647-01-0		1.15E-12	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.16E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		7.01E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.81E-07	0.00E+00
LEAD	7439-92-1	2.24	3.76E-05	1.68E-05
MANGANESE	7439-96-5	25	6.18E-10	2.47E-11
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		6.57E-16	0.00E+00
METHYL CHLORIDE	74-87-3		2.72E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	2.97E-15	5.98E-18
METHYL ISOBUTYL KETONE	108-10-1	7	2.79E-14	3.98E-15
METHYL MERCURY	22967-92-6		8.23E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.56E-13	9.78E-14
METHYLNAPHTHALENE, 2-	91-57-6		2.48E-09	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.64E-09	4.09E-08
M-XYLENE	108-38-3		2.10E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	4.41E-15	1.77E-15
O-XYLENE	95-47-6		4.04E-15	0.00E+00
PHENANTHRENE	85-01-8		4.04E-14	0.00E+00
PHENOL	108-95-2		4.20E-14	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Short Tailed Shrew Dose**	**Short Tailed Shrew ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
PHOSPHOROUS	7723-14-0		2.32E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		1.22E-12	0.00E+00
P-XYLENE	106-42-3		6.09E-12	0.00E+00
PYRENE	129-00-0		3.00E-08	0.00E+00
PYRIDINE	110-86-1		1.01E-12	0.00E+00
SILVER	7440-22-4	14	2.24E-09	1.60E-10
STRONTIUM	7440-24-6	74	2.83E-09	3.82E-11
STYRENE	100-42-5		2.45E-17	0.00E+00
SULFURIC ACID	7664-93-9		7.54E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.86E-15	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00
THALLIUM	7440-28-0	0.002	3.40E-14	1.70E-11
TIN	7440-31-5	3.6	3.28E-09	9.12E-10
TOLUENE	108-88-3	3.9	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.106	1.86E-17	1.76E-16
TRICHLOROFLUOROMETHANE	75-69-4		5.56E-16	0.00E+00
ZINC	7440-66-6	44.9	1.46E-08	3.25E-10
DIOXIN TEQ (1)				7.32E-06
CUMULATIVE ESQ				**7.77E-05**
(1): See Appendix B for dioxin calculations				

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.09E-13	3.28E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		6.26E-25	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.50E-15	0.00E+00
1,3-BUTADIENE	106-99-0		8.60E-15	0.00E+00
1,4-DIOXANE	123-91-1	0.14	6.94E-16	4.96E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.58E-12	4.74E-13
2-NITROPHENOL	88-75-5		1.01E-19	0.00E+00
ACENAPHTHENE	83-32-9		1.31E-13	0.00E+00
ACETALDEHYDE	75-07-0		5.02E-14	0.00E+00
ACETONE	67-64-1	2.8	3.05E-14	1.09E-14
ACETONITRILE	75-05-8		8.46E-15	0.00E+00
ACROLEIN	107-02-8		1.05E-13	0.00E+00
ACRYLONITRILE	107-13-1		3.49E-16	0.00E+00
ALUMINUM	7429-90-5	0.293	2.10E-08	7.16E-08
AMMONIA	7664-41-7		7.57E-17	0.00E+00
ANTHRACENE	120-12-7		2.56E-17	0.00E+00
ANTIMONY	7440-36-0	0.019	6.38E-12	3.36E-10
ARSENIC	7440-38-2	0.019	1.28E-11	6.76E-10
BARIUM	7440-39-3	1.5	3.63E-12	2.42E-12
BENZ(A)ANTHRACENE	56-55-3		2.31E-08	0.00E+00
BENZENE	71-43-2	4	9.96E-14	2.49E-14
BENZO(A)PYRENE	50-32-8	0.15	4.57E-08	3.04E-07
BENZO(B)FLUORANTHENE	205-99-2		1.41E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		8.11E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		9.99E-14	0.00E+00
BERYLLIUM	7440-41-7	0.19	2.34E-10	1.23E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.30E-05	5.19E-06

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Red Fox Dose**	**Red Fox ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		2.36E-10	0.00E+00
CADMIUM	7440-43-9	0.271	6.87E-11	2.53E-10
CARBON TETRACHLORIDE	56-23-5	4.5	6.05E-17	1.35E-17
CHLOROETHANE	75-00-3		1.65E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	1.37E-12	3.27E-13
CHROMIUM	7440-47-3	768	9.77E-07	1.27E-09
CHRYSENE	218-01-9		1.77E-08	0.00E+00
COPPER	7440-50-8	4.3	6.00E-08	1.40E-08
CROTONALDEHYDE	123-73-9		6.00E-18	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.73E-13	0.00E+00
CYANIDE	57-12-5	18.1	1.77E-13	9.75E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		7.81E-09	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		3.76E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	3.77E-15	5.41E-18
DIMETHYL PHTHALATE	131-11-3	3500	8.81E-16	2.52E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	9.06E-10	1.09E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	7.55E-03	7.72E-07
ETHYL ACRYLATE	140-88-5		3.11E-12	0.00E+00
ETHYLBENZENE	100-41-4		8.25E-12	0.00E+00
FLUORANTHENE	206-44-0		9.89E-10	0.00E+00
FORMALDEHYDE	50-00-0	6.4	0.00E+00	0.00E+00
HEXACHLOROBENZENE	118-74-1		7.58E-23	0.00E+00
HEXANE, N-	110-54-3		7.88E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	5.38E-14	5.85E-14
HYDROGEN CHLORIDE	7647-01-0		4.43E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		4.45E-14	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.70E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		9.45E-08	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	5.10E-06	2.28E-06
MANGANESE	7439-96-5	25	3.61E-12	1.44E-13
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		2.54E-16	0.00E+00
METHYL CHLORIDE	74-87-3		1.05E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	1.15E-15	2.31E-18
METHYL ISOBUTYL KETONE	108-10-1	7	1.08E-14	1.54E-15
METHYL MERCURY	22967-92-6		3.17E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	6.03E-14	3.77E-14
METHYLNAPHTHALENE, 2-	91-57-6		9.58E-10	0.00E+00
MOLYBDENUM	7439-98-7	0.04	3.25E-11	8.14E-10
M-XYLENE	108-38-3		8.08E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.70E-15	6.81E-16
O-XYLENE	95-47-6		1.56E-15	0.00E+00
PHENANTHRENE	85-01-8		1.56E-14	0.00E+00
PHENOL	108-95-2		1.62E-14	0.00E+00
PHOSPHOROUS	7723-14-0		8.74E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		4.71E-13	0.00E+00
P-XYLENE	106-42-3		2.35E-12	0.00E+00
PYRENE	129-00-0		7.89E-09	0.00E+00
PYRIDINE	110-86-1		3.88E-13	0.00E+00
SILVER	7440-22-4	14	1.52E-13	1.08E-14
STRONTIUM	7440-24-6	74	3.69E-11	4.99E-13
STYRENE	100-42-5		9.46E-18	0.00E+00
SULFURIC ACID	7664-93-9		2.91E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		7.19E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 40 - Terrestrial Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Red Fox Dose**	**Red Fox ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	1.31E-14	6.56E-12
TIN	7440-31-5	3.6	4.37E-10	1.21E-10
TOLUENE	108-88-3	3.9	0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6	0.106	7.19E-18	6.78E-17
TRICHLOROFLUOROMETHANE	75-69-4		2.14E-16	0.00E+00
ZINC	7440-66-6	44.9	2.63E-10	5.87E-12
DIOXIN TEQ (1)				2.44E-08
CUMULATIVE ESQ				**8.65E-06**
(1): See Appendix B for dioxin calculations				

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		3.34E-14	3.34E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		1.80E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		6.46E-16	0.00E+00
1,3-BUTADIENE	106-99-0		2.28E-16	0.00E+00
1,4-DIOXANE	123-91-1		2.66E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		3.31E-14	3.31E-14
2-NITROPHENOL	88-75-5		5.13E-15	0.00E+00
ACENAPHTHENE	83-32-9		1.08E-15	0.00E+00
ACETALDEHYDE	75-07-0		3.96E-13	0.00E+00
ACETONE	67-64-1		1.51E-13	0.00E+00
ACETONITRILE	75-05-8		9.19E-14	0.00E+00
ACROLEIN	107-02-8		2.55E-14	0.00E+00
ACRYLONITRILE	107-13-1		3.17E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	5.43E-08	4.95E-10
AMMONIA	7664-41-7		3.69E-11	0.00E+00
ANTHRACENE	120-12-7		1.05E-15	0.00E+00
ANTIMONY	7440-36-0		7.73E-17	0.00E+00
ARSENIC	7440-38-2	2.5	1.54E-07	6.16E-08
BARIUM	7440-39-3	20.8	4.69E-08	2.25E-09
BENZ(A)ANTHRACENE	56-55-3		1.36E-09	0.00E+00
BENZENE	71-43-2		4.60E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		5.98E-09	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		1.18E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		4.54E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		2.36E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	9.70E-08	8.82E-08

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		1.12E-09	0.00E+00
CADMIUM	7440-43-9	1.45	1.47E-08	1.01E-08
CARBON TETRACHLORIDE	56-23-5		3.31E-17	0.00E+00
CHLOROETHANE	75-00-3		1.83E-16	0.00E+00
CHLOROFORM	67-66-3		4.96E-17	0.00E+00
CHROMIUM	7440-47-3	1	1.20E-08	1.20E-08
CHRYSENE	218-01-9		1.81E-09	0.00E+00
COPPER	7440-50-8	47	2.28E-05	4.85E-07
CROTONALDEHYDE	123-73-9		2.59E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.56E-16	0.00E+00
CYANIDE	57-12-5		8.22E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		9.46E-09	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.69E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.13E-14	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.14E-14	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.30E-09	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		3.19E-08	0.00E+00
ETHYL ACRYLATE	140-88-5		1.81E-17	0.00E+00
ETHYLBENZENE	100-41-4		2.09E-15	0.00E+00
FLUORANTHENE	206-44-0		7.46E-11	0.00E+00
FORMALDEHYDE	50-00-0		4.70E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		1.14E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		6.58E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.29E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		9.38E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.34E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		7.52E-08	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	7.55E-05	6.68E-05
MANGANESE	7439-96-5	997	2.54E-09	2.55E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		7.64E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		3.17E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		3.46E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		3.24E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		3.29E-13	0.00E+00
MOLYBDENUM	7439-98-7	3.5	6.33E-09	1.81E-09
M-XYLENE	108-38-3		4.52E-15	0.00E+00
NAPHTHALENE	91-20-3		1.82E-13	0.00E+00
O-XYLENE	95-47-6		2.44E-15	0.00E+00
PHENANTHRENE	85-01-8		8.19E-15	0.00E+00
PHENOL	108-95-2		4.70E-14	0.00E+00
PHOSPHOROUS	7723-14-0		4.24E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		2.64E-14	0.00E+00
P-XYLENE	106-42-3		4.70E-15	0.00E+00
PYRENE	129-00-0		1.42E-10	0.00E+00
PYRIDINE	110-86-1		3.73E-15	0.00E+00
SILVER	7440-22-4	4.2	9.36E-09	2.23E-09
STRONTIUM	7440-24-6		1.12E-08	0.00E+00
STYRENE	100-42-5		1.41E-14	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.85E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		2.17E-15	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**Northern Bobwhite Dose**	**Northern Bobwhite ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	6.79E-09	9.99E-10
TOLUENE	108-88-3		3.95E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.17E-17	0.00E+00
ZINC	7440-66-6	14.5	5.61E-08	3.87E-09
DIOXIN TEQ (1)				2.60E-09
CUMULATIVE ESQ			9.89E-05	6.75E-05
(1): See Appendix B for dioxin calculations				

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		3.97E-13	3.97E-14
1,2,4-TRIMETHYLBENZENE	95-63-6		1.15E-15	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		6.96E-16	0.00E+00
1,3-BUTADIENE	106-99-0		2.47E-16	0.00E+00
1,4-DIOXANE	123-91-1		2.86E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.57E-11	1.57E-11
2-NITROPHENOL	88-75-5		5.53E-15	0.00E+00
ACENAPHTHENE	83-32-9		1.16E-15	0.00E+00
ACETALDEHYDE	75-07-0		4.26E-13	0.00E+00
ACETONE	67-64-1		1.63E-13	0.00E+00
ACETONITRILE	75-05-8		9.90E-14	0.00E+00
ACROLEIN	107-02-8		2.75E-14	0.00E+00
ACRYLONITRILE	107-13-1		3.41E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	3.48E-07	3.17E-09
AMMONIA	7664-41-7		3.97E-11	0.00E+00
ANTHRACENE	120-12-7		1.13E-15	0.00E+00
ANTIMONY	7440-36-0		8.32E-17	0.00E+00
ARSENIC	7440-38-2	2.5	9.82E-07	3.93E-07
BARIUM	7440-39-3	20.8	2.99E-07	1.44E-08
BENZ(A)ANTHRACENE	56-55-3		1.25E-08	0.00E+00
BENZENE	71-43-2		4.96E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		9.24E-08	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		8.07E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		6.47E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		1.54E-08	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	4.87E-04	4.43E-04

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		7.15E-09	0.00E+00
CADMIUM	7440-43-9	1.45	9.46E-08	6.53E-08
CARBON TETRACHLORIDE	56-23-5		3.56E-17	0.00E+00
CHLOROETHANE	75-00-3		1.97E-16	0.00E+00
CHLOROFORM	67-66-3		5.35E-17	0.00E+00
CHROMIUM	7440-47-3	1	3.48E-07	3.48E-07
CHRYSENE	218-01-9		1.54E-08	0.00E+00
COPPER	7440-50-8	47	1.45E-04	3.09E-06
CROTONALDEHYDE	123-73-9		2.79E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.75E-16	0.00E+00
CYANIDE	57-12-5		8.85E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		6.33E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.82E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.22E-14	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.22E-14	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		3.47E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		4.68E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		1.95E-17	0.00E+00
ETHYLBENZENE	100-41-4		2.25E-15	0.00E+00
FLUORANTHENE	206-44-0		4.75E-10	0.00E+00
FORMALDEHYDE	50-00-0		5.06E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		7.26E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		7.08E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.46E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.01E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.45E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		5.21E-07	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**American Robin Dose**	**American Robin ESQ**
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	4.82E-04	4.27E-04
MANGANESE	7439-96-5	997	1.62E-08	1.62E-11
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		8.23E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		3.41E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		3.72E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		3.49E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		2.08E-12	0.00E+00
MOLYBDENUM	7439-98-7	3.5	4.03E-08	1.15E-08
M-XYLENE	108-38-3		4.87E-15	0.00E+00
NAPHTHALENE	91-20-3		1.96E-13	0.00E+00
O-XYLENE	95-47-6		2.62E-15	0.00E+00
PHENANTHRENE	85-01-8		8.82E-15	0.00E+00
PHENOL	108-95-2		5.06E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.71E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		2.84E-14	0.00E+00
P-XYLENE	106-42-3		5.06E-15	0.00E+00
PYRENE	129-00-0		9.04E-10	0.00E+00
PYRIDINE	110-86-1		4.02E-15	0.00E+00
SILVER	7440-22-4	4.2	5.97E-08	1.42E-08
STRONTIUM	7440-24-6		7.15E-08	0.00E+00
STYRENE	100-42-5		1.52E-14	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		3.07E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		2.33E-15	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**American Robin Dose**	**American Robin ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	4.33E-08	6.37E-09
TOLUENE	108-88-3		4.26E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.33E-17	0.00E+00
ZINC	7440-66-6	14.5	3.59E-07	2.47E-08
DIOXIN TEQ (1)				1.13E-06
CUMULATIVE ESQ			4.69E-01	8.75E-04
(1): See Appendix B for dioxin calculations				

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		4.37E-12	4.37E-13
1,2,4-TRIMETHYLBENZENE	95-63-6		2.09E-20	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		4.97E-16	0.00E+00
1,3-BUTADIENE	106-99-0		1.76E-16	0.00E+00
1,4-DIOXANE	123-91-1		2.04E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		5.58E-11	5.58E-11
2-NITROPHENOL	88-75-5		3.95E-15	0.00E+00
ACENAPHTHENE	83-32-9		8.31E-16	0.00E+00
ACETALDEHYDE	75-07-0		3.05E-13	0.00E+00
ACETONE	67-64-1		1.17E-13	0.00E+00
ACETONITRILE	75-05-8		7.07E-14	0.00E+00
ACROLEIN	107-02-8		1.96E-14	0.00E+00
ACRYLONITRILE	107-13-1		2.44E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	8.58E-07	7.82E-09
AMMONIA	7664-41-7		2.84E-11	0.00E+00
ANTHRACENE	120-12-7		8.10E-16	0.00E+00
ANTIMONY	7440-36-0		5.95E-17	0.00E+00
ARSENIC	7440-38-2	2.5	4.65E-10	1.86E-10
BARIUM	7440-39-3	20.8	1.53E-10	7.34E-12
BENZ(A)ANTHRACENE	56-55-3		9.44E-07	0.00E+00
BENZENE	71-43-2		3.54E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		1.85E-06	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		5.77E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.31E-06	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		9.75E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	3.47E-04	3.15E-04

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		9.63E-09	0.00E+00
CADMIUM	7440-43-9	1.45	3.35E-09	2.31E-09
CARBON TETRACHLORIDE	56-23-5		2.54E-17	0.00E+00
CHLOROETHANE	75-00-3		1.40E-16	0.00E+00
CHLOROFORM	67-66-3		3.82E-17	0.00E+00
CHROMIUM	7440-47-3	1	4.01E-05	4.01E-05
CHRYSENE	218-01-9		7.23E-07	0.00E+00
COPPER	7440-50-8	47	2.47E-06	5.27E-08
CROTONALDEHYDE	123-73-9		1.99E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.97E-16	0.00E+00
CYANIDE	57-12-5		6.32E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		3.18E-07	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.30E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2		8.72E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		8.74E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		5.13E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		3.31E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		1.39E-17	0.00E+00
ETHYLBENZENE	100-41-4		1.61E-15	0.00E+00
FLUORANTHENE	206-44-0		4.04E-08	0.00E+00
FORMALDEHYDE	50-00-0		3.61E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		5.80E-18	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		5.06E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		1.76E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.22E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.03E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.84E-06	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	2.09E-04	1.85E-04
MANGANESE	7439-96-5	997	5.19E-11	5.21E-14
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		5.88E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		2.44E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		2.66E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		2.49E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		4.25E-11	0.00E+00
MOLYBDENUM	7439-98-7	3.5	1.33E-09	3.80E-10
M-XYLENE	108-38-3		3.48E-15	0.00E+00
NAPHTHALENE	91-20-3		1.40E-13	0.00E+00
O-XYLENE	95-47-6		1.87E-15	0.00E+00
PHENANTHRENE	85-01-8		6.30E-15	0.00E+00
PHENOL	108-95-2		3.61E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.55E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		2.03E-14	0.00E+00
P-XYLENE	106-42-3		3.61E-15	0.00E+00
PYRENE	129-00-0		3.23E-07	0.00E+00
PYRIDINE	110-86-1		2.87E-15	0.00E+00
SILVER	7440-22-4	4.2	7.07E-12	1.68E-12
STRONTIUM	7440-24-6		1.51E-09	0.00E+00
STYRENE	100-42-5		1.08E-14	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.19E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		1.67E-15	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**American Woodcock Dose**	**American Woodcock ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	1.79E-08	2.63E-09
TOLUENE	108-88-3		3.04E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.67E-17	0.00E+00
ZINC	7440-66-6	14.5	1.13E-08	7.82E-10
DIOXIN TEQ (1)				4.02E-06
CUMULATIVE ESQ			3.31E-01	5.44E-04
(1): See Appendix B for dioxin calculations				

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Red Tailed Hawk Dose	Red Tailed Hawk ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		7.67E-15	7.67E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		1.23E-19	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.93E-15	0.00E+00
1,3-BUTADIENE	106-99-0		1.04E-15	0.00E+00
1,4-DIOXANE	123-91-1		1.21E-14	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		6.45E-13	6.45E-13
2-NITROPHENOL	88-75-5		2.33E-14	0.00E+00
ACENAPHTHENE	83-32-9		4.90E-15	0.00E+00
ACETALDEHYDE	75-07-0		1.80E-12	0.00E+00
ACETONE	67-64-1		6.87E-13	0.00E+00
ACETONITRILE	75-05-8		4.17E-13	0.00E+00
ACROLEIN	107-02-8		1.16E-13	0.00E+00
ACRYLONITRILE	107-13-1		1.44E-12	0.00E+00
ALUMINUM	7429-90-5	109.7	3.56E-11	3.24E-13
AMMONIA	7664-41-7		1.67E-10	0.00E+00
ANTHRACENE	120-12-7		4.78E-15	0.00E+00
ANTIMONY	7440-36-0		3.51E-16	0.00E+00
ARSENIC	7440-38-2	2.5	8.73E-11	3.49E-11
BARIUM	7440-39-3	20.8	2.66E-11	1.28E-12
BENZ(A)ANTHRACENE	56-55-3		1.02E-10	0.00E+00
BENZENE	71-43-2		2.09E-13	0.00E+00
BENZO(A)PYRENE	50-32-8		1.78E-09	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		1.44E-11	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.17E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		2.22E-12	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.73E-05	1.58E-05

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Red Tailed Hawk Dose	Red Tailed Hawk ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		1.34E-12	0.00E+00
CADMIUM	7440-43-9	1.45	1.10E-11	7.60E-12
CARBON TETRACHLORIDE	56-23-5		1.50E-16	0.00E+00
CHLOROETHANE	75-00-3		8.28E-16	0.00E+00
CHLOROFORM	67-66-3		2.25E-16	0.00E+00
CHROMIUM	7440-47-3	1	8.25E-10	8.25E-10
CHRYSENE	218-01-9		1.03E-10	0.00E+00
COPPER	7440-50-8	47	1.32E-08	2.80E-10
CROTONALDEHYDE	123-73-9		1.18E-13	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.16E-15	0.00E+00
CYANIDE	57-12-5		3.73E-12	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.25E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		7.69E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2		5.14E-14	0.00E+00
DIMETHYL PHTHALATE	131-11-3		5.16E-14	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.44E-10	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.01E-02	0.00E+00
ETHYL ACRYLATE	140-88-5		8.20E-17	0.00E+00
ETHYLBENZENE	100-41-4		9.49E-15	0.00E+00
FLUORANTHENE	206-44-0		1.05E-13	0.00E+00
FORMALDEHYDE	50-00-0		2.13E-11	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		3.38E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		2.98E-18	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		1.04E-21	0.00E+00
HYDROGEN CYANIDE	74-90-8		4.26E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		6.09E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.73E-09	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	4.60E-08	4.07E-08
MANGANESE	7439-96-5	997	1.44E-12	1.45E-15
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		3.47E-15	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.44E-13	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.57E-14	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		1.47E-13	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.08E-14	0.00E+00
MOLYBDENUM	7439-98-7	3.5	3.70E-12	1.06E-12
M-XYLENE	108-38-3		2.05E-14	0.00E+00
NAPHTHALENE	91-20-3		8.26E-13	0.00E+00
O-XYLENE	95-47-6		1.11E-14	0.00E+00
PHENANTHRENE	85-01-8		3.72E-14	0.00E+00
PHENOL	108-95-2		2.13E-13	0.00E+00
PHOSPHOROUS	7723-14-0		8.54E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		1.20E-13	0.00E+00
P-XYLENE	106-42-3		2.13E-14	0.00E+00
PYRENE	129-00-0		2.21E-13	0.00E+00
PYRIDINE	110-86-1		1.69E-14	0.00E+00
SILVER	7440-22-4	4.2	5.31E-12	1.27E-12
STRONTIUM	7440-24-6		6.45E-12	0.00E+00
STYRENE	100-42-5		6.39E-14	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.30E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		9.84E-15	0.00E+00

Table 41 - Terrestrial Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	3.98E-12	5.85E-13
TOLUENE	108-88-3		1.79E-13	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		9.83E-17	0.00E+00
ZINC	7440-66-6	14.5	3.49E-11	2.40E-12
DIOXIN TEQ (1)				4.61E-08
CUMULATIVE ESQ			1.02E-02	1.58E-05
(1): See Appendix B for dioxin calculations				

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.17E-13	1.55E-14
1,2,4-TRIMETHYLBENZENE	95-63-6		7.35E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.04E-15	0.00E+00
1,3-BUTADIENE	106-99-0		3.69E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	4.29E-15	3.07E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		4.17E-12	1.25E-12
2-NITROPHENOL	88-75-5		8.29E-15	0.00E+00
ACENAPHTHENE	83-32-9		1.74E-15	0.00E+00
ACETALDEHYDE	75-07-0		6.40E-13	0.00E+00
ACETONE	67-64-1	2.8	2.45E-13	8.74E-14
ACETONITRILE	75-05-8		1.48E-13	0.00E+00
ACROLEIN	107-02-8		4.12E-14	0.00E+00
ACRYLONITRILE	107-13-1		5.12E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	2.99E-07	1.02E-06
AMMONIA	7664-41-7		5.96E-11	0.00E+00
ANTHRACENE	120-12-7		1.70E-15	0.00E+00
ANTIMONY	7440-36-0	0.019	1.25E-16	6.57E-15
ARSENIC	7440-38-2	0.019	6.29E-07	3.31E-05
BARIUM	7440-39-3	1.5	1.91E-07	1.28E-07
BENZ(A)ANTHRACENE	56-55-3		9.02E-08	0.00E+00
BENZENE	71-43-2	4	7.44E-14	1.86E-14
BENZO(A)PYRENE	50-32-8	0.15	1.87E-07	1.25E-06
BENZO(B)FLUORANTHENE	205-99-2		9.96E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.14E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.05E-08	5.53E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	6.41E-07	2.57E-07

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV**	**Meadow Vole Dose**	**Meadow Vole ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		5.44E-09	0.00E+00
CADMIUM	7440-43-9	0.271	6.02E-08	2.22E-07
CARBON TETRACHLORIDE	56-23-5	4.5	5.34E-17	1.19E-17
CHLOROETHANE	75-00-3		2.95E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	8.02E-17	1.91E-17
CHROMIUM	7440-47-3	768	3.64E-06	4.74E-09
CHRYSENE	218-01-9		7.21E-08	0.00E+00
COPPER	7440-50-8	4.3	9.33E-05	2.17E-05
CROTONALDEHYDE	123-73-9		4.19E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		4.13E-16	0.00E+00
CYANIDE	57-12-5	18.1	1.33E-12	7.33E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		6.70E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.74E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.83E-14	2.63E-17
DIMETHYL PHTHALATE	131-11-3	3500	1.84E-14	5.24E-18
DI-N-BUTYL PHTHALATE	84-74-2	83	8.22E-09	9.91E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	2.29E-07	2.34E-11
ETHYL ACRYLATE	140-88-5		2.92E-17	0.00E+00
ETHYLBENZENE	100-41-4		3.38E-15	0.00E+00
FLUORANTHENE	206-44-0		3.94E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	7.59E-12	1.19E-12
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		4.65E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.06E-18	1.15E-18
HYDROGEN CHLORIDE	7647-01-0		3.69E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.52E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.17E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		6.50E-07	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	3.27E-04	1.46E-04
MANGANESE	7439-96-5	25	1.04E-08	4.15E-10
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.23E-15	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	5.12E-14	1.03E-16
METHYL ISOBUTYL KETONE	108-10-1	7	5.58E-15	7.97E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	5.24E-14	3.27E-14
METHYLNAPHTHALENE, 2-	91-57-6		5.15E-12	0.00E+00
MOLYBDENUM	7439-98-7	0.04	2.59E-08	6.48E-07
M-XYLENE	108-38-3		7.31E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	2.94E-13	1.18E-13
O-XYLENE	95-47-6		3.94E-15	0.00E+00
PHENANTHRENE	85-01-8		1.32E-14	0.00E+00
PHENOL	108-95-2		7.59E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.27E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		4.26E-14	0.00E+00
P-XYLENE	106-42-3		7.59E-15	0.00E+00
PYRENE	129-00-0		2.96E-08	0.00E+00
PYRIDINE	110-86-1		6.03E-15	0.00E+00
SILVER	7440-22-4	14	3.82E-08	2.73E-09
STRONTIUM	7440-24-6	74	4.59E-08	6.20E-10
STYRENE	100-42-5		2.27E-14	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.61E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		3.50E-15	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV**	**Meadow Vole Dose**	**Meadow Vole ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	2.93E-08	8.14E-09
TOLUENE	108-88-3	3.9	6.39E-14	1.64E-14
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		3.50E-17	0.00E+00
ZINC	7440-66-6	44.9	2.30E-07	5.12E-09
DIOXIN TEQ (1)				4.22E-06
CUMULATIVE ESQ				**2.09E-04**
(1): See Appendix B for dioxin calculations				

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.82E-10	8.46E-12
1,2,4-TRIMETHYLBENZENE	95-63-6		4.73E-14	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		4.13E-16	0.00E+00
1,3-BUTADIENE	106-99-0		1.80E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.70E-15	1.21E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		3.25E-09	9.76E-10
2-NITROPHENOL	88-75-5		3.28E-15	0.00E+00
ACENAPHTHENE	83-32-9		6.89E-16	0.00E+00
ACETALDEHYDE	75-07-0		2.53E-13	0.00E+00
ACETONE	67-64-1	2.8	9.67E-14	3.45E-14
ACETONITRILE	75-05-8		5.87E-14	0.00E+00
ACROLEIN	107-02-8		1.63E-14	0.00E+00
ACRYLONITRILE	107-13-1		2.02E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	6.87E-05	2.34E-04
AMMONIA	7664-41-7		2.36E-11	0.00E+00
ANTHRACENE	120-12-7		6.72E-16	0.00E+00
ANTIMONY	7440-36-0	0.019	4.93E-17	2.60E-15
ARSENIC	7440-38-2	0.019	4.05E-05	2.13E-03
BARIUM	7440-39-3	1.5	1.23E-05	8.22E-06
BENZ(A)ANTHRACENE	56-55-3		6.01E-05	0.00E+00
BENZENE	71-43-2	4	2.94E-14	7.35E-15
BENZO(A)PYRENE	50-32-8	0.15	1.18E-04	7.86E-04
BENZO(B)FLUORANTHENE	205-99-2		3.96E-06	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		2.10E-04	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.23E-06	6.49E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.27E-02	5.10E-03

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		9.05E-07	0.00E+00
CADMIUM	7440-43-9	0.271	4.06E-06	1.50E-05
CARBON TETRACHLORIDE	56-23-5	4.5	2.11E-17	4.69E-18
CHLOROETHANE	75-00-3		1.17E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	3.17E-17	7.55E-18
CHROMIUM	7440-47-3	768	2.54E-03	3.31E-06
CHRYSENE	218-01-9		4.62E-05	0.00E+00
COPPER	7440-50-8	4.3	6.15E-03	1.43E-03
CROTONALDEHYDE	123-73-9		1.75E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.63E-16	0.00E+00
CYANIDE	57-12-5	18.1	5.25E-13	2.90E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		2.26E-05	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.08E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	7.23E-15	1.04E-17
DIMETHYL PHTHALATE	131-11-3	3500	7.25E-15	2.07E-18
DI-N-BUTYL PHTHALATE	84-74-2	83	3.09E-06	3.72E-08
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.21E+01	1.23E-03
ETHYL ACRYLATE	140-88-5		1.27E-17	0.00E+00
ETHYLBENZENE	100-41-4		1.34E-15	0.00E+00
FLUORANTHENE	206-44-0		2.58E-06	0.00E+00
FORMALDEHYDE	50-00-0	6.4	3.00E-12	4.69E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		2.99E-13	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	4.20E-19	4.56E-19
HYDROGEN CHLORIDE	7647-01-0		1.46E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		6.29E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		8.76E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.63E-04	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	3.31E-02	1.48E-02
MANGANESE	7439-96-5	25	6.71E-07	2.68E-08
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		4.88E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	2.02E-14	4.07E-17
METHYL ISOBUTYL KETONE	108-10-1	7	2.21E-15	3.15E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	2.07E-14	1.29E-14
METHYLNAPHTHALENE, 2-	91-57-6		2.78E-09	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.75E-06	4.37E-05
M-XYLENE	108-38-3		2.89E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.16E-13	4.65E-14
O-XYLENE	95-47-6		1.56E-15	0.00E+00
PHENANTHRENE	85-01-8		5.23E-15	0.00E+00
PHENOL	108-95-2		3.00E-14	0.00E+00
PHOSPHOROUS	7723-14-0		6.28E-13	0.00E+00
PROPIONALDEHYDE	123-38-6		1.69E-14	0.00E+00
P-XYLENE	106-42-3		3.00E-15	0.00E+00
PYRENE	129-00-0		2.05E-05	0.00E+00
PYRIDINE	110-86-1		2.38E-15	0.00E+00
SILVER	7440-22-4	14	2.46E-06	1.76E-07
STRONTIUM	7440-24-6	74	3.04E-06	4.11E-08
STYRENE	100-42-5		8.98E-15	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.82E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		1.38E-15	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV**	**Raccoon Dose**	**Raccoon ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	2.92E-06	8.10E-07
TOLUENE	108-88-3	3.9	2.52E-14	6.47E-15
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.38E-17	0.00E+00
ZINC	7440-66-6	44.9	1.54E-05	3.44E-07
DIOXIN TEQ (1)				3.28E-03
CUMULATIVE ESQ				**2.90E-02**
(1): See Appendix B for dioxin calculations				

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		8.77E-13	2.63E-14
1,2,4-TRIMETHYLBENZENE	95-63-6		8.64E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.11E-15	0.00E+00
1,3-BUTADIENE	106-99-0		3.92E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	4.56E-15	3.26E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.46E-11	4.37E-12
2-NITROPHENOL	88-75-5		8.81E-15	0.00E+00
ACENAPHTHENE	83-32-9		1.85E-15	0.00E+00
ACETALDEHYDE	75-07-0		6.79E-13	0.00E+00
ACETONE	67-64-1	2.8	2.60E-13	9.28E-14
ACETONITRILE	75-05-8		1.58E-13	0.00E+00
ACROLEIN	107-02-8		4.37E-14	0.00E+00
ACRYLONITRILE	107-13-1		5.44E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	1.86E-07	6.34E-07
AMMONIA	7664-41-7		6.33E-11	0.00E+00
ANTHRACENE	120-12-7		1.81E-15	0.00E+00
ANTIMONY	7440-36-0	0.019	1.33E-16	6.98E-15
ARSENIC	7440-38-2	0.019	7.40E-08	3.89E-06
BARIUM	7440-39-3	1.5	2.25E-08	1.50E-08
BENZ(A)ANTHRACENE	56-55-3		1.77E-07	0.00E+00
BENZENE	71-43-2	4	7.90E-14	1.97E-14
BENZO(A)PYRENE	50-32-8	0.15	3.62E-07	2.41E-06
BENZO(B)FLUORANTHENE	205-99-2		1.14E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		6.27E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	3.02E-09	1.59E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.96E-04	7.83E-05

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV**	**Short Tailed Shrew Dose**	**Short Tailed Shrew ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		2.33E-09	0.00E+00
CADMIUM	7440-43-9	0.271	7.91E-09	2.92E-08
CARBON TETRACHLORIDE	56-23-5	4.5	5.67E-17	1.26E-17
CHLOROETHANE	75-00-3		3.13E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	8.51E-17	2.03E-17
CHROMIUM	7440-47-3	768	7.54E-06	9.81E-09
CHRYSENE	218-01-9		1.36E-07	0.00E+00
COPPER	7440-50-8	4.3	1.14E-05	2.65E-06
CROTONALDEHYDE	123-73-9		4.45E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		4.39E-16	0.00E+00
CYANIDE	57-12-5	18.1	1.41E-12	7.79E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		6.44E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.91E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.94E-14	2.79E-17
DIMETHYL PHTHALATE	131-11-3	3500	1.95E-14	5.57E-18
DI-N-BUTYL PHTHALATE	84-74-2	83	1.73E-08	2.08E-10
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.88E-01	1.92E-05
ETHYL ACRYLATE	140-88-5		3.10E-17	0.00E+00
ETHYLBENZENE	100-41-4		3.59E-15	0.00E+00
FLUORANTHENE	206-44-0		7.54E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	8.06E-12	1.26E-12
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		5.58E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.13E-18	1.23E-18
HYDROGEN CHLORIDE	7647-01-0		3.92E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.61E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.30E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		7.62E-07	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	7.53E-05	3.36E-05
MANGANESE	7439-96-5	25	1.23E-09	4.91E-11
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.31E-15	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	5.43E-14	1.09E-16
METHYL ISOBUTYL KETONE	108-10-1	7	5.93E-15	8.47E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	5.56E-14	3.48E-14
METHYLNAPHTHALENE, 2-	91-57-6		8.05E-12	0.00E+00
MOLYBDENUM	7439-98-7	0.04	3.28E-09	8.20E-08
M-XYLENE	108-38-3		7.76E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	3.12E-13	1.25E-13
O-XYLENE	95-47-6		4.18E-15	0.00E+00
PHENANTHRENE	85-01-8		1.41E-14	0.00E+00
PHENOL	108-95-2		8.05E-14	0.00E+00
PHOSPHOROUS	7723-14-0		4.38E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		4.52E-14	0.00E+00
P-XYLENE	106-42-3		8.06E-15	0.00E+00
PYRENE	129-00-0		6.01E-08	0.00E+00
PYRIDINE	110-86-1		6.40E-15	0.00E+00
SILVER	7440-22-4	14	4.49E-09	3.21E-10
STRONTIUM	7440-24-6	74	5.66E-09	7.65E-11
STYRENE	100-42-5		2.41E-14	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.89E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		3.72E-15	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV**	**Short Tailed Shrew Dose**	**Short Tailed Shrew ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	6.58E-09	1.83E-09
TOLUENE	108-88-3	3.9	6.78E-14	1.74E-14
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		3.72E-17	0.00E+00
ZINC	7440-66-6	44.9	2.93E-08	6.52E-10
DIOXIN TEQ (1)				1.47E-05
CUMULATIVE ESQ				**1.56E-04**
(1): See Appendix B for dioxin calculations				

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.19E-13	6.56E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		1.80E-20	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		4.28E-16	0.00E+00
1,3-BUTADIENE	106-99-0		1.51E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.76E-15	1.26E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		3.16E-12	9.47E-13
2-NITROPHENOL	88-75-5		3.40E-15	0.00E+00
ACENAPHTHENE	83-32-9		7.14E-16	0.00E+00
ACETALDEHYDE	75-07-0		2.62E-13	0.00E+00
ACETONE	67-64-1	2.8	1.00E-13	3.58E-14
ACETONITRILE	75-05-8		6.08E-14	0.00E+00
ACROLEIN	107-02-8		1.69E-14	0.00E+00
ACRYLONITRILE	107-13-1		2.10E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	4.20E-08	1.43E-07
AMMONIA	7664-41-7		2.44E-11	0.00E+00
ANTHRACENE	120-12-7		6.96E-16	0.00E+00
ANTIMONY	7440-36-0	0.019	5.11E-17	2.69E-15
ARSENIC	7440-38-2	0.019	3.46E-11	1.82E-09
BARIUM	7440-39-3	1.5	1.11E-11	7.41E-12
BENZ(A)ANTHRACENE	56-55-3		4.62E-08	0.00E+00
BENZENE	71-43-2	4	3.05E-14	7.61E-15
BENZO(A)PYRENE	50-32-8	0.15	9.14E-08	6.09E-07
BENZO(B)FLUORANTHENE	205-99-2		2.83E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.62E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	4.69E-10	2.47E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	2.60E-05	1.04E-05

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		4.72E-10	0.00E+00
CADMIUM	7440-43-9	0.271	1.39E-10	5.12E-10
CARBON TETRACHLORIDE	56-23-5	4.5	2.19E-17	4.86E-18
CHLOROETHANE	75-00-3		1.21E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	3.28E-17	7.82E-18
CHROMIUM	7440-47-3	768	1.96E-06	2.55E-09
CHRYSENE	218-01-9		3.54E-08	0.00E+00
COPPER	7440-50-8	4.3	1.22E-07	2.84E-08
CROTONALDEHYDE	123-73-9		1.72E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.69E-16	0.00E+00
CYANIDE	57-12-5	18.1	5.44E-13	3.00E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		1.56E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.12E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	7.50E-15	1.08E-17
DIMETHYL PHTHALATE	131-11-3	3500	7.51E-15	2.15E-18
DI-N-BUTYL PHTHALATE	84-74-2	83	1.81E-09	2.18E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.51E-02	1.55E-06
ETHYL ACRYLATE	140-88-5		1.20E-17	0.00E+00
ETHYLBENZENE	100-41-4		1.38E-15	0.00E+00
FLUORANTHENE	206-44-0		1.98E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	3.11E-12	4.85E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		4.93E-18	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	4.35E-19	4.73E-19
HYDROGEN CHLORIDE	7647-01-0		1.51E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		6.21E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		8.87E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.89E-07	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	1.02E-05	4.56E-06
MANGANESE	7439-96-5	25	2.74E-12	1.09E-13
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		5.06E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	2.10E-14	4.22E-17
METHYL ISOBUTYL KETONE	108-10-1	7	2.29E-15	3.27E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	2.14E-14	1.34E-14
METHYLNAPHTHALENE, 2-	91-57-6		2.08E-12	0.00E+00
MOLYBDENUM	7439-98-7	0.04	6.57E-11	1.64E-09
M-XYLENE	108-38-3		2.99E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.20E-13	4.81E-14
O-XYLENE	95-47-6		1.61E-15	0.00E+00
PHENANTHRENE	85-01-8		5.42E-15	0.00E+00
PHENOL	108-95-2		3.11E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.25E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		1.74E-14	0.00E+00
P-XYLENE	106-42-3		3.11E-15	0.00E+00
PYRENE	129-00-0		1.58E-08	0.00E+00
PYRIDINE	110-86-1		2.47E-15	0.00E+00
SILVER	7440-22-4	14	1.07E-12	7.63E-14
STRONTIUM	7440-24-6	74	7.49E-11	1.01E-12
STYRENE	100-42-5		9.31E-15	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.89E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		1.43E-15	0.00E+00

Table 42 - Terrestrial Mammalian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV**	**Red Fox Dose**	**Red Fox ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	8.75E-10	2.43E-10
TOLUENE	108-88-3	3.9	2.62E-14	6.71E-15
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.43E-17	0.00E+00
ZINC	7440-66-6	44.9	5.32E-10	1.19E-11
DIOXIN TEQ (1)				4.61E-08
CUMULATIVE ESQ				**1.73E-05**
(1): See Appendix B for dioxin calculations				

Table 43 - Aquatic Community ESQs: Propellant 183 Day Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00		0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00	33	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00	71	2.46E-13
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00	119	3.01E-15	22000	3.67E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00	1920	6.10E-19
ACENAPHTHENE	83-32-9		0.00E+00	0.01	8.13E-08	5.8	2.63E-10
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00	1500	2.36E-13
ACETONITRILE	75-05-8		0.00E+00		0.00E+00	12000	8.19E-15
ACROLEIN	107-02-8		0.00E+00	0.00152	3.60E-09	0.01	1.22E-07
ACRYLONITRILE	107-13-1		0.00E+00	1.2	3.46E-10	160	2.54E-14
ALUMINUM	7429-90-5	50	8.06E-07		0.00E+00	87	1.64E-09
AMMONIA	7664-41-7		0.00E+00		0.00E+00	19	4.63E-14
ANTHRACENE	120-12-7		0.00E+00	0.0572	6.55E-08	0.012	2.48E-11
ANTIMONY	7440-36-0	5	2.68E-12	2	6.70E-12	30	2.47E-09
ARSENIC	7440-38-2	18	1.20E-07	9.8	2.19E-07	5	4.52E-09

Table 43 - Aquatic Community ESQs: Propellant 183 Day Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
BARIUM	7440-39-3	500	1.85E-09		0.00E+00	4	4.44E-11
BENZ(A)ANTHRACENE	56-55-3		0.00E+00	0.108	6.60E-05	0.018	1.70E-07
BENZENE	71-43-2		0.00E+00	10	1.04E-10	370	3.13E-12
BENZO(A)PYRENE	50-32-8		0.00E+00	0.15	3.29E-04	0.015	5.99E-09
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00	0.0272	5.39E-05	9.07	1.76E-10
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00	0.24	1.04E-04		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10	9.10E-08		0.00E+00	0.66	1.73E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00	0.18	2.18E-03	16	5.56E-12
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00	10.9	2.97E-08	19	3.75E-10
CADMIUM	7440-43-9	4	1.34E-07	0.99	5.40E-07	0.25	5.10E-13
CARBON TETRACHLORIDE	56-23-5		0.00E+00	0.0642	3.49E-12	13.3	5.29E-14
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00	121	2.01E-15	1.8	8.87E-09
CHROMIUM	7440-47-3	1	1.47E-03	43.4	3.40E-05	85	2.98E-17
CHRYSENE	218-01-9		0.00E+00	0.166	2.35E-05		0.00E+00
COPPER	7440-50-8	70	5.56E-06	31.6	1.23E-05	9	1.36E-10
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00	0.09	4.07E-10	2.6	1.22E-09
CYANIDE	57-12-5		0.00E+00	0.1	0.00E+00	5	4.10E-10

Table 43 - Aquatic Community ESQs: Propellant 183 Day Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00	0.033	3.05E-04		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00		0.00E+00
DIETHYL PHTHALATE	84-66-2		0.00E+00	0.6	2.39E-10	210	2.09E-13
DIMETHYL PHTHALATE	131-11-3		0.00E+00		0.00E+00	3	3.42E-12
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00	6.47	1.90E-08	19	1.68E-09
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00	40600	4.01E-09	22	1.53E-11
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00	1.1	1.31E-10	90	1.07E-09
FLUORANTHENE	206-44-0		0.00E+00	0.423	3.95E-07	0.04	4.53E-07
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.02	0.00E+00	0.0003	2.94E-15
HEXANE, N-	110-54-3		0.00E+00	0.0396	3.81E-12	0.58	1.58E-11
HEXAVALENT CHROMIUM	18540-29-9	1	4.82E-14	43.4	1.11E-15	11	5.69E-11
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00	0.017	9.46E-03	4.31	0.00E+00
LEAD	7439-92-1	50	6.58E-04	35.8	9.19E-04	2.5	1.67E-12
MANGANESE	7439-96-5	220	3.62E-10	460	1.73E-10	120	2.27E-10

Table 43 - Aquatic Community ESQs: Propellant 183 Day Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	1.37	0.00E+00	16	1.84E-13
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00		0.00E+00
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00	14000	9.52E-16
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00	25.1	2.55E-13	170	7.36E-13
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00	98.1	7.15E-12
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00	0.02	4.53E-08	4.7	2.37E-06
MOLYBDENUM	7439-98-7	2	3.14E-08		0.00E+00	73	9.94E-14
M-XYLENE	108-38-3	10	2.62E-11	0.0252	1.04E-08	1.8	5.22E-12
NAPHTHALENE	91-20-3		0.00E+00	0.18	2.40E-07	1.1	1.80E-11
O-XYLENE	95-47-6		0.00E+00		0.00E+00	350	5.18E-14
PHENANTHRENE	85-01-8		0.00E+00	0.2	1.64E-07	0.4	4.53E-10
PHENOL	108-95-2	70	1.94E-11	0.42	3.23E-09	4	4.70E-11
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10	2.72E-11	0.0252	1.08E-08	1.8	1.52E-08
PYRENE	129-00-0		0.00E+00	0.195	1.94E-06	0.025	5.76E-10

Table 43 - Aquatic Community ESQs: Propellant 183 Day Scenario							
COPC	**CAS**	**Plant TRV**	**Aquatic Vegetation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
PYRIDINE	110-86-1		0.00E+00	106	3.90E-13	2380	1.90E-12
SILVER	7440-22-4	2	1.87E-08	1	3.75E-08	3.2	1.70E-11
STRONTIUM	7440-24-6		0.00E+00		0.00E+00	1500	0.00E+00
STYRENE	100-42-5	300	3.23E-12	0.559	1.73E-09	72	1.53E-15
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00		0.00E+00
TETRACHLOROETHYLENE	127-18-4		0.00E+00	0.468	8.93E-13	111	7.53E-14
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1	0.00E+00		0.00E+00	0.8	1.91E-10
TIN	7440-31-5	50	1.69E-08		0.00E+00	73	1.43E-18
TOLUENE	108-88-3	200	7.13E-12	1220	1.17E-12	2	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.1	0.00E+00	21	3.98E-15
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00	11000	2.27E-16
ZINC	7440-66-6	50	3.38E-08	121	1.40E-08	120	2.39E-16
DIOXIN TEQ (1)							
TOTAL ESQ			**2.14E-03**		**1.35E-02**		**3.16E-06**
(1): See Appendix B for dioxin calculations							

Table 44 - Aquatic Community ESQs: Propellant 8,000 lbs. Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00		0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00	33	6.33E-18
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00	71	7.00E-14
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00	119	6.01E-15	22000	9.29E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00	1920	2.06E-14
ACENAPHTHENE	83-32-9		0.00E+00	0.01	1.62E-07	5.8	1.43E-12
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00	1500	7.77E-13
ACETONITRILE	75-05-8		0.00E+00		0.00E+00	12000	5.89E-14
ACROLEIN	107-02-8		0.00E+00	0.00152	7.19E-09	0.01	1.96E-08
ACRYLONITRILE	107-13-1		0.00E+00	1.2	6.91E-10	160	1.52E-11
ALUMINUM	7429-90-5	50	1.61E-06		0.00E+00	87	6.26E-10
AMMONIA	7664-41-7		0.00E+00		0.00E+00	19	1.49E-08
ANTHRACENE	120-12-7		0.00E+00	0.0572	1.31E-07	0.012	6.75E-10
ANTIMONY	7440-36-0	5	5.35E-12	2	1.34E-11	30	1.98E-14
ARSENIC	7440-38-2	18	2.38E-07	9.8	4.38E-07	5	2.96E-08

Table 44 - Aquatic Community ESQs: Propellant 8,000 lbs. Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
BARIUM	7440-39-3	500	3.70E-09		0.00E+00	4	1.13E-08
BENZ(A)ANTHRACENE	56-55-3		0.00E+00	0.108	1.34E-04	0.018	1.28E-07
BENZENE	71-43-2		0.00E+00	10	2.06E-10	370	9.57E-13
BENZO(A)PYRENE	50-32-8		0.00E+00	0.15	6.64E-04	0.015	4.07E-07
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00	0.0272	1.09E-04	9.07	1.98E-11
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00	0.24	2.16E-04		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10	1.82E-07		0.00E+00	0.66	3.51E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00	0.18	4.36E-03	16	1.20E-08
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00	10.9	5.94E-08	19	1.20E-10
CADMIUM	7440-43-9	4	2.66E-07	0.99	1.08E-06	0.25	5.69E-08
CARBON TETRACHLORIDE	56-23-5		0.00E+00	0.0642	6.95E-12	13.3	1.91E-14
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00	121	4.02E-15	1.8	2.12E-13
CHROMIUM	7440-47-3	1	3.02E-03	43.4	6.95E-05	85	3.75E-10
CHRYSENE	218-01-9		0.00E+00	0.166	4.78E-05		0.00E+00
COPPER	7440-50-8	70	1.11E-05	31.6	2.46E-05	9	2.47E-06
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00	0.09	8.13E-10	2.6	7.57E-13
CYANIDE	57-12-5		0.00E+00	0.1	0.00E+00	5	1.26E-09

Table 44 - Aquatic Community ESQs: Propellant 8,000 lbs. Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00	0.033	6.21E-04		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00		0.00E+00
DIETHYL PHTHALATE	84-66-2		0.00E+00	0.6	4.76E-10	210	4.15E-13
DIMETHYL PHTHALATE	131-11-3		0.00E+00		0.00E+00	3	2.91E-11
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00	6.47	3.96E-08	19	2.15E-10
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00	40600	8.00E-09	22	2.90E-09
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00	1.1	2.61E-10	90	1.79E-13
FLUORANTHENE	206-44-0		0.00E+00	0.423	7.95E-07	0.04	4.44E-09
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.02	0.00E+00	0.0003	0.00E+00
HEXANE, N-	110-54-3		0.00E+00	0.0396	7.61E-12	0.58	9.88E-14
HEXAVALENT CHROMIUM	18540-29-9	1	9.61E-14	43.4	2.21E-15	11	4.60E-16
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00	0.017	1.91E-02	4.31	2.38E-09
LEAD	7439-92-1	50	1.31E-03	35.8	1.83E-03	2.5	2.94E-05
MANGANESE	7439-96-5	220	7.22E-10	460	3.45E-10	120	2.04E-11

Table 44 - Aquatic Community ESQs: Propellant 8,000 lbs. Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	1.37	0.00E+00	16	0.00E+00
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00		0.00E+00
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00	14000	1.74E-14
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00	25.1	5.08E-13	170	1.56E-13
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00	98.1	2.54E-12
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00	0.02	9.04E-08	4.7	3.89E-12
MOLYBDENUM	7439-98-7	2	6.27E-08		0.00E+00	73	8.59E-11
M-XYLENE	108-38-3	10	5.22E-11	0.0252	2.07E-08	1.8	1.93E-11
NAPHTHALENE	91-20-3		0.00E+00	0.18	4.80E-07	1.1	1.27E-09
O-XYLENE	95-47-6		0.00E+00		0.00E+00	350	5.35E-14
PHENANTHRENE	85-01-8		0.00E+00	0.2	3.28E-07	0.4	1.58E-10
PHENOL	108-95-2	70	3.86E-11	0.42	6.44E-09	4	9.03E-11
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10	5.42E-11	0.0252	2.15E-08	1.8	2.01E-11
PYRENE	129-00-0		0.00E+00	0.195	4.02E-06	0.025	1.50E-08

Table 44 - Aquatic Community ESQs: Propellant 8,000 lbs. Scenario							
COPC	**CAS**	**Plant TRV**	**Aquatic Vegetation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
PYRIDINE	110-86-1		0.00E+00	106	7.77E-13	2380	1.21E-14
SILVER	7440-22-4	2	3.74E-08	1	7.47E-08	3.2	2.81E-09
STRONTIUM	7440-24-6		0.00E+00		0.00E+00	1500	7.29E-12
STYRENE	100-42-5	300	6.44E-12	0.559	3.45E-09	72	1.50E-12
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00		0.00E+00
TETRACHLOROETHYLENE	127-18-4		0.00E+00	0.468	1.78E-12	111	1.98E-15
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1	0.00E+00		0.00E+00	0.8	0.00E+00
TIN	7440-31-5	50	3.36E-08		0.00E+00	73	9.24E-11
TOLUENE	108-88-3	200	1.42E-11	1220	2.33E-12	2	1.52E-10
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.1	0.00E+00	21	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00	11000	1.52E-17
ZINC	7440-66-6	50	6.75E-08	121	2.79E-08	120	4.54E-10
DIOXIN TEQ (1)							
Cumulative ESQ			**4.34E-03**		**2.72E-02**		**3.26E-05**
(1): See Appendix B for dioxin calculations							

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.13E-18	2.13E-19
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		9.24E-16	0.00E+00
1,3-BUTADIENE	106-99-0		5.30E-15	0.00E+00
1,4-DIOXANE	123-91-1		1.08E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.67E-15	1.67E-15
2-NITROPHENOL	88-75-5		6.21E-20	0.00E+00
ACENAPHTHENE	83-32-9		8.09E-14	0.00E+00
ACETALDEHYDE	75-07-0		3.10E-14	0.00E+00
ACETONE	67-64-1		1.16E-13	0.00E+00
ACETONITRILE	75-05-8		5.21E-15	0.00E+00
ACROLEIN	107-02-8		6.48E-14	0.00E+00
ACRYLONITRILE	107-13-1		3.78E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	7.54E-12	6.87E-14
AMMONIA	7664-41-7		4.67E-17	0.00E+00
ANTHRACENE	120-12-7		1.58E-17	0.00E+00
ANTIMONY	7440-36-0		3.93E-12	0.00E+00
ARSENIC	7440-38-2	2.5	4.02E-12	1.61E-12
BARIUM	7440-39-3	20.8	4.86E-12	2.34E-13
BENZ(A)ANTHRACENE	56-55-3		4.88E-12	0.00E+00
BENZENE	71-43-2		1.37E-13	0.00E+00
BENZO(A)PYRENE	50-32-8		1.62E-11	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		5.69E-13	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		8.24E-12	0.00E+00
BENZYL CHLORIDE	100-44-7		6.16E-14	0.00E+00
BERYLLIUM	7440-41-7		3.58E-13	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	5.15E-10	4.68E-10

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		3.78E-13	0.00E+00
CADMIUM	7440-43-9	1.45	8.74E-12	6.03E-12
CARBON TETRACHLORIDE	56-23-5		4.38E-17	0.00E+00
CHLOROETHANE	75-00-3		1.01E-17	0.00E+00
CHLOROFORM	67-66-3		8.47E-13	0.00E+00
CHROMIUM	7440-47-3	1	1.93E-09	1.93E-09
CHRYSENE	218-01-9		2.39E-12	0.00E+00
COPPER	7440-50-8	47	5.10E-09	1.08E-10
CROTONALDEHYDE	123-73-9		9.50E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.68E-13	0.00E+00
CYANIDE	57-12-5		1.09E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		2.11E-12	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.32E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2		9.45E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		7.05E-14	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		2.06E-12	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		8.54E-13	0.00E+00
ETHYL ACRYLATE	140-88-5		1.92E-12	0.00E+00
ETHYLBENZENE	100-41-4		5.09E-12	0.00E+00
FLUORANTHENE	206-44-0		9.60E-13	0.00E+00
FORMALDEHYDE	50-00-0		5.72E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		4.67E-23	0.00E+00
HEXANE, N-	110-54-3		4.86E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		3.31E-14	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.73E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		2.74E-14	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.67E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.05E-11	0.00E+00

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	5.39E-08	4.77E-08
MANGANESE	7439-96-5	997	1.65E-12	1.66E-15
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		1.56E-16	0.00E+00
METHYL CHLORIDE	74-87-3		6.48E-15	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.95E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		8.03E-15	0.00E+00
METHYL MERCURY	22967-92-6		1.96E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2		6.30E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		5.90E-10	0.00E+00
MOLYBDENUM	7439-98-7	3.5	3.85E-16	1.10E-16
M-XYLENE	108-38-3		5.47E-15	0.00E+00
NAPHTHALENE	91-20-3		1.73E-11	0.00E+00
O-XYLENE	95-47-6		3.69E-15	0.00E+00
PHENANTHRENE	85-01-8		9.60E-15	0.00E+00
PHENOL	108-95-2		9.97E-15	0.00E+00
PHOSPHOROUS	7723-14-0		5.39E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		2.90E-13	0.00E+00
P-XYLENE	106-42-3		1.45E-12	0.00E+00
PYRENE	129-00-0		7.63E-16	0.00E+00
PYRIDINE	110-86-1		2.39E-13	0.00E+00
SILVER	7440-22-4	4.2	1.51E-14	3.61E-15
STRONTIUM	7440-24-6		0.00E+00	0.00E+00
STYRENE	100-42-5		5.83E-18	0.00E+00
SULFURIC ACID	7664-93-9		1.79E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.43E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		8.08E-15	0.00E+00
TIN	7440-31-5	6.8	5.55E-21	8.16E-22
TOLUENE	108-88-3		4.67E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		4.43E-18	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.32E-16	0.00E+00
ZINC	7440-66-6	14.5	5.48E-11	3.78E-12
DIOXIN TEQ (1)				1.20E-10
CUMULATIVE ESQ				**5.03E-08**
(1): See Appendix B for dioxin calculations				

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Mallard Duck Dose	Mallard Duck ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.12E-10	1.12E-11
1,2,4-TRIMETHYLBENZENE	95-63-6		1.63E-15	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.61E-11	0.00E+00
1,3-BUTADIENE	106-99-0		6.96E-13	0.00E+00
1,4-DIOXANE	123-91-1		1.13E-12	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.50E-10	1.50E-10
2-NITROPHENOL	88-75-5		1.21E-11	0.00E+00
ACENAPHTHENE	83-32-9		3.54E-10	0.00E+00
ACETALDEHYDE	75-07-0		1.33E-11	0.00E+00
ACETONE	67-64-1		1.70E-10	0.00E+00
ACETONITRILE	75-05-8		3.09E-12	0.00E+00
ACROLEIN	107-02-8		2.45E-12	0.00E+00
ACRYLONITRILE	107-13-1		7.45E-10	0.00E+00
ALUMINUM	7429-90-5	109.7	1.75E-05	1.60E-07
AMMONIA	7664-41-7		4.17E-09	0.00E+00
ANTHRACENE	120-12-7		1.63E-09	0.00E+00
ANTIMONY	7440-36-0		1.03E-11	0.00E+00
ARSENIC	7440-38-2	2.5	9.40E-07	3.76E-07
BARIUM	7440-39-3	20.8	4.10E-07	1.97E-08
BENZ(A)ANTHRACENE	56-55-3		3.11E-06	0.00E+00
BENZENE	71-43-2		5.64E-10	0.00E+00
BENZO(A)PYRENE	50-32-8		2.15E-05	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		6.39E-07	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.09E-05	0.00E+00
BENZYL CHLORIDE	100-44-7		6.74E-14	0.00E+00
BERYLLIUM	7440-41-7		3.96E-07	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	4.44E-04	4.04E-04

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Mallard Duck Dose	Mallard Duck ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		1.41E-07	0.00E+00
CADMIUM	7440-43-9	1.45	2.46E-07	1.70E-07
CARBON TETRACHLORIDE	56-23-5		1.08E-13	0.00E+00
CHLOROETHANE	75-00-3		2.66E-13	0.00E+00
CHLOROFORM	67-66-3		1.07E-12	0.00E+00
CHROMIUM	7440-47-3	1	6.44E-04	6.44E-04
CHRYSENE	218-01-9		1.70E-06	0.00E+00
COPPER	7440-50-8	47	1.77E-04	3.76E-06
CROTONALDEHYDE	123-73-9		2.09E-11	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.61E-11	0.00E+00
CYANIDE	57-12-5		1.19E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		4.39E-06	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		5.24E-14	0.00E+00
DIETHYL PHTHALATE	84-66-2		7.30E-11	0.00E+00
DIMETHYL PHTHALATE	131-11-3		3.07E-10	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		5.43E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		2.70E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		2.12E-12	0.00E+00
ETHYLBENZENE	100-41-4		6.81E-11	0.00E+00
FLUORANTHENE	206-44-0		7.26E-08	0.00E+00
FORMALDEHYDE	50-00-0		1.17E-09	0.00E+00
HEXACHLOROBENZENE	118-74-1		5.11E-23	0.00E+00
HEXANE, N-	110-54-3		6.62E-14	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		5.72E-14	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.99E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		3.57E-10	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.53E-11	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		7.01E-05	0.00E+00

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Mallard Duck Dose	Mallard Duck ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	1.44E-02	1.27E-02
MANGANESE	7439-96-5	997	3.49E-08	3.50E-11
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		1.71E-16	0.00E+00
METHYL CHLORIDE	74-87-3		6.85E-13	0.00E+00
METHYL ETHYL KETONE	78-93-3		3.77E-11	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		4.88E-12	0.00E+00
METHYL MERCURY	22967-92-6		2.14E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2		8.58E-11	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.04E-09	0.00E+00
MOLYBDENUM	7439-98-7	3.5	2.73E-08	7.80E-09
M-XYLENE	108-38-3		1.25E-10	0.00E+00
NAPHTHALENE	91-20-3		4.46E-08	0.00E+00
O-XYLENE	95-47-6		6.87E-11	0.00E+00
PHENANTHRENE	85-01-8		1.43E-08	0.00E+00
PHENOL	108-95-2		5.89E-10	0.00E+00
PHOSPHOROUS	7723-14-0		4.15E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		7.04E-12	0.00E+00
P-XYLENE	106-42-3		1.31E-10	0.00E+00
PYRENE	129-00-0		1.64E-07	0.00E+00
PYRIDINE	110-86-1		1.82E-11	0.00E+00
SILVER	7440-22-4	4.2	1.63E-08	3.88E-09
STRONTIUM	7440-24-6		8.33E-08	0.00E+00
STYRENE	100-42-5		4.21E-10	0.00E+00
SULFURIC ACID	7664-93-9		1.96E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.82E-13	0.00E+00
TETRAHYDROFURAN	109-99-9		4.58E-13	0.00E+00

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		8.84E-15	0.00E+00
TIN	7440-31-5	6.8	3.66E-07	5.39E-08
TOLUENE	108-88-3		6.90E-10	0.00E+00
TRICHLOROETHYLENE	79-01-6		4.85E-18	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		6.39E-14	0.00E+00
ZINC	7440-66-6	14.5	8.17E-07	5.64E-08
DIOXIN TEQ (1)				1.15E-05
CUMULATIVE ESQ				**1.38E-02**
(1): See Appendix B for dioxin calculations				

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Great Blue Heron Dose	Great Blue Heron ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.38E-15	1.38E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		7.85E-16	0.00E+00
1,3-BUTADIENE	106-99-0		4.50E-15	0.00E+00
1,4-DIOXANE	123-91-1		3.63E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.64E-13	1.64E-13
2-NITROPHENOL	88-75-5		5.27E-20	0.00E+00
ACENAPHTHENE	83-32-9		6.87E-14	0.00E+00
ACETALDEHYDE	75-07-0		2.63E-14	0.00E+00
ACETONE	67-64-1		2.65E-14	0.00E+00
ACETONITRILE	75-05-8		4.42E-15	0.00E+00
ACROLEIN	107-02-8		5.50E-14	0.00E+00
ACRYLONITRILE	107-13-1		1.06E-11	0.00E+00
ALUMINUM	7429-90-5	109.7	1.95E-11	1.77E-13
AMMONIA	7664-41-7		3.96E-17	0.00E+00
ANTHRACENE	120-12-7		1.34E-17	0.00E+00
ANTIMONY	7440-36-0		3.34E-12	0.00E+00
ARSENIC	7440-38-2	2.5	1.52E-09	6.09E-10
BARIUM	7440-39-3	20.8	2.58E-09	1.24E-10
BENZ(A)ANTHRACENE	56-55-3		1.10E-09	0.00E+00
BENZENE	71-43-2		5.21E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		3.44E-09	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		6.70E-11	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.79E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		5.23E-14	0.00E+00
BERYLLIUM	7440-41-7		1.29E-11	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.90E-08	1.72E-08

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Great Blue Heron Dose	Great Blue Heron ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		3.21E-13	0.00E+00
CADMIUM	7440-43-9	1.45	1.16E-09	8.02E-10
CARBON TETRACHLORIDE	56-23-5		7.20E-16	0.00E+00
CHLOROETHANE	75-00-3		8.61E-18	0.00E+00
CHLOROFORM	67-66-3		7.19E-13	0.00E+00
CHROMIUM	7440-47-3	1	2.88E-12	2.88E-12
CHRYSENE	218-01-9		5.95E-10	0.00E+00
COPPER	7440-50-8	47	1.42E-06	3.02E-08
CROTONALDEHYDE	123-73-9		9.36E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.43E-13	0.00E+00
CYANIDE	57-12-5		6.63E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		3.49E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.97E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.97E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		4.61E-16	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.44E-12	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		2.94E-07	0.00E+00
ETHYL ACRYLATE	140-88-5		1.63E-12	0.00E+00
ETHYLBENZENE	100-41-4		4.32E-12	0.00E+00
FLUORANTHENE	206-44-0		8.15E-13	0.00E+00
FORMALDEHYDE	50-00-0		1.11E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		3.97E-23	0.00E+00
HEXANE, N-	110-54-3		4.12E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		2.82E-14	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.32E-13	0.00E+00
HYDROGEN CYANIDE	74-90-8		2.33E-14	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.41E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		4.89E-09	0.00E+00

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Bird TRV	Great Blue Heron Dose	Great Blue Heron ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	5.93E-10	5.24E-10
MANGANESE	7439-96-5	997	1.89E-11	1.89E-14
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		1.33E-16	0.00E+00
METHYL CHLORIDE	74-87-3		5.50E-15	0.00E+00
METHYL ETHYL KETONE	78-93-3		7.01E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.38E-14	0.00E+00
METHYL MERCURY	22967-92-6		1.66E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2		5.51E-13	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		5.01E-10	0.00E+00
MOLYBDENUM	7439-98-7	3.5	5.66E-12	1.62E-12
M-XYLENE	108-38-3		2.35E-12	0.00E+00
NAPHTHALENE	91-20-3		1.07E-11	0.00E+00
O-XYLENE	95-47-6		1.27E-12	0.00E+00
PHENANTHRENE	85-01-8		8.15E-15	0.00E+00
PHENOL	108-95-2		8.47E-15	0.00E+00
PHOSPHOROUS	7723-14-0		4.57E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		2.47E-13	0.00E+00
P-XYLENE	106-42-3		3.67E-12	0.00E+00
PYRENE	129-00-0		6.48E-16	0.00E+00
PYRIDINE	110-86-1		2.03E-13	0.00E+00
SILVER	7440-22-4	4.2	7.13E-11	1.70E-11
STRONTIUM	7440-24-6		5.92E-11	0.00E+00
STYRENE	100-42-5		4.95E-18	0.00E+00
SULFURIC ACID	7664-93-9		1.52E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		3.76E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00	0.00E+00

Table 45 - Aquatic Avian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		6.86E-15	0.00E+00
TIN	7440-31-5	6.8	1.82E-09	2.68E-10
TOLUENE	108-88-3		0.00E+00	0.00E+00
TRICHLOROETHYLENE	79-01-6		3.76E-18	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.12E-16	0.00E+00
ZINC	7440-66-6	14.5	1.01E-08	6.97E-10
DIOXIN TEQ (1)				1.17E-08
CUMULATIVE ESQ				**6.23E-08**
(1): See Appendix B for dioxin calculations				

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Meadow Vole Dose (mg/kg/day)	Meadow Vole ESQ (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.98E-14	8.93E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		2.71E-18	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		4.69E-14	0.00E+00
1,3-BUTADIENE	106-99-0		2.21E-14	0.00E+00
1,4-DIOXANE	123-91-1	0.14	7.61E-15	5.43E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.54E-13	7.61E-14
2-NITROPHENOL	88-75-5		2.01E-14	0.00E+00
ACENAPHTHENE	83-32-9		9.06E-13	0.00E+00
ACETALDEHYDE	75-07-0		1.45E-13	0.00E+00
ACETONE	67-64-1	2.8	9.62E-13	3.44E-13
ACETONITRILE	75-05-8		2.58E-14	0.00E+00
ACROLEIN	107-02-8		2.61E-13	0.00E+00
ACRYLONITRILE	107-13-1		3.59E-12	0.00E+00
ALUMINUM	7429-90-5	0.293	2.91E-08	9.92E-08
AMMONIA	7664-41-7		6.90E-12	0.00E+00
ANTHRACENE	120-12-7		2.70E-12	0.00E+00
ANTIMONY	7440-36-0	0.019	1.56E-11	8.21E-10
ARSENIC	7440-38-2	0.019	1.58E-09	8.31E-08
BARIUM	7440-39-3	1.5	7.10E-10	4.73E-10
BENZ(A)ANTHRACENE	56-55-3		5.18E-09	0.00E+00
BENZENE	71-43-2	4	1.65E-12	4.12E-13
BENZO(A)PYRENE	50-32-8	0.15	3.57E-08	2.38E-07
BENZO(B)FLUORANTHENE	205-99-2		1.06E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.80E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		2.44E-13	0.00E+00
BERYLLIUM	7440-41-7	0.19	6.58E-10	3.46E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	2.88E-07	1.15E-07
BUTYLBENZYLPHTHALATE	85-68-7		2.35E-10	0.00E+00

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
CADMIUM	7440-43-9	0.271	4.61E-10	1.70E-09
CARBON TETRACHLORIDE	56-23-5	4.5	3.65E-16	8.11E-17
CHLOROETHANE	75-00-3		4.81E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	3.35E-12	7.99E-13
CHROMIUM	7440-47-3	768	1.08E-06	1.40E-09
CHRYSENE	218-01-9		2.83E-09	0.00E+00
COPPER	7440-50-8	4.3	3.25E-07	7.55E-08
CROTONALDEHYDE	123-73-9		9.39E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		6.92E-13	0.00E+00
CYANIDE	57-12-5	18.1	4.31E-13	2.38E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		7.27E-09	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		9.26E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.74E-13	2.51E-16
DIMETHYL PHTHALATE	131-11-3	3500	9.45E-13	2.70E-16
DI-N-BUTYL PHTHALATE	84-74-2	83	9.82E-11	1.18E-12
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.17E-07	1.20E-11
ETHYL ACRYLATE	140-88-5		7.60E-12	0.00E+00
ETHYLBENZENE	100-41-4		2.03E-11	0.00E+00
FLUORANTHENE	206-44-0		1.24E-10	0.00E+00
FORMALDEHYDE	50-00-0	6.4	5.50E-12	8.59E-13
HEXACHLOROBENZENE	118-74-1		1.85E-22	0.00E+00
HEXANE, N-	110-54-3		2.03E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.31E-13	1.43E-13
HYDROGEN CHLORIDE	7647-01-0		1.08E-12	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.01E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		6.85E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.16E-07	0.00E+00
LEAD	7439-92-1	2.24	2.42E-05	1.08E-05
MANGANESE	7439-96-5	25	6.49E-11	2.60E-12

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		6.19E-16	0.00E+00
METHYL CHLORIDE	74-87-3		2.68E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	1.83E-13	3.67E-16
METHYL ISOBUTYL KETONE	108-10-1	7	4.31E-14	6.15E-15
METHYL MERCURY	22967-92-6		7.75E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	4.50E-13	2.81E-13
METHYLNAPHTHALENE, 2-	91-57-6		2.34E-09	0.00E+00
MOLYBDENUM	7439-98-7	0.04	4.52E-11	1.13E-09
M-XYLENE	108-38-3		2.34E-13	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.82E-10	7.27E-11
O-XYLENE	95-47-6		1.31E-13	0.00E+00
PHENANTHRENE	85-01-8		2.37E-11	0.00E+00
PHENOL	108-95-2		1.02E-12	0.00E+00
PHOSPHOROUS	7723-14-0		9.01E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		1.16E-12	0.00E+00
P-XYLENE	106-42-3		5.97E-12	0.00E+00
PYRENE	129-00-0		2.72E-10	0.00E+00
PYRIDINE	110-86-1		9.78E-13	0.00E+00
SILVER	7440-22-4	14	2.71E-11	1.94E-12
STRONTIUM	7440-24-6	74	1.38E-10	1.86E-12
STYRENE	100-42-5		6.97E-13	0.00E+00
SULFURIC ACID	7664-93-9		7.10E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.06E-15	0.00E+00
TETRAHYDROFURAN	109-99-9		7.59E-16	0.00E+00
THALLIUM	7440-28-0	0.002	3.20E-14	1.60E-11
TIN	7440-31-5	3.6	6.07E-10	1.69E-10
TOLUENE	108-88-3	3.9	1.43E-12	3.68E-13

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	1.75E-17	1.66E-16
TRICHLOROFLUOROMETHANE	75-69-4		6.29E-16	0.00E+00
ZINC	7440-66-6	44.9	1.70E-09	3.78E-11
DIOXIN TEQ (1)				2.57E-07
CUMULATIVE ESQ				**1.17E-05**
(1): See Appendix B for dioxin calculations				

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Raccoon Dose (mg/kg/day)	Raccoon ESQ (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.02E-09	1.50725E-10
1,2,4-TRIMETHYLBENZENE	95-63-6		1.91E-15	0
1,3,5-TRIMETHYLBENZENE	108-67-8		3.05E-11	0
1,3-BUTADIENE	106-99-0		8.15E-13	0
1,4-DIOXANE	123-91-1	0.14	5.48E-13	3.91095E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.03E-10	6.09215E-11
2-NITROPHENOL	88-75-5		1.42E-11	0
ACENAPHTHENE	83-32-9		4.13E-10	0
ACETALDEHYDE	75-07-0		1.55E-11	0
ACETONE	67-64-1	2.8	8.39E-11	2.99671E-11
ACETONITRILE	75-05-8		3.61E-12	0
ACROLEIN	107-02-8		2.88E-12	0
ACRYLONITRILE	107-13-1		4.24E-10	0
ALUMINUM	7429-90-5	0.293	2.05E-05	6.98703E-05
AMMONIA	7664-41-7		4.87E-09	0
ANTHRACENE	120-12-7		1.90E-09	0
ANTIMONY	7440-36-0	0.019	1.30E-11	6.84901E-10
ARSENIC	7440-38-2	0.019	1.15E-06	6.04108E-05
BARIUM	7440-39-3	1.5	4.74E-07	3.15852E-07
BENZ(A)ANTHRACENE	56-55-3		3.91E-06	0
BENZENE	71-43-2	4	5.81E-10	1.45313E-10
BENZO(A)PYRENE	50-32-8	0.15	2.52E-05	0.000167817
BENZO(B)FLUORANTHENE	205-99-2		8.10E-07	0
BENZO(K)FLUORANTHENE	207-08-9		1.38E-05	0
BENZYL CHLORIDE	100-44-7		9.64E-14	0
BERYLLIUM	7440-41-7	0.19	4.85E-07	2.55336E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.46E-02	0.005859584
BUTYLBENZYLPHTHALATE	85-68-7		1.64E-07	0

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
CADMIUM	7440-43-9	0.271	3.12E-07	1.15056E-06
CARBON TETRACHLORIDE	56-23-5	4.5	1.93E-13	4.28298E-14
CHLOROETHANE	75-00-3		3.11E-13	0
CHLOROFORM	67-66-3	4.2	1.48E-12	3.52779E-13
CHROMIUM	7440-47-3	768	7.51E-04	9.77846E-07
CHRYSENE	218-01-9		2.13E-06	0
COPPER	7440-50-8	4.3	2.04E-04	4.73631E-05
CROTONALDEHYDE	123-73-9		1.33E-11	0
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.89E-11	0
CYANIDE	57-12-5	18.1	1.70E-13	9.41177E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		5.57E-06	0
DICHLORODIFLUOROMETHANE	75-71-8		6.18E-14	0
DIETHYL PHTHALATE	84-66-2	696	8.10E-11	1.16399E-13
DIMETHYL PHTHALATE	131-11-3	3500	2.94E-10	8.39797E-14
DI-N-BUTYL PHTHALATE	84-74-2	83	8.30E-08	1.00009E-09
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.43E+01	0.00146158
ETHYL ACRYLATE	140-88-5		3.03E-12	0
ETHYLBENZENE	100-41-4		8.10E-11	0
FLUORANTHENE	206-44-0		8.48E-08	0
FORMALDEHYDE	50-00-0	6.4	6.91E-10	1.07995E-10
HEXACHLOROBENZENE	118-74-1		7.32E-23	0
HEXANE, N-	110-54-3		7.74E-14	0
HEXAVALENT CHROMIUM	18540-29-9	0.92	7.64E-14	8.30362E-14
HYDROGEN CHLORIDE	7647-01-0		4.27E-13	0
HYDROGEN CYANIDE	74-90-8		4.17E-10	0
HYDROGEN FLOURIDE	7664-39-3		1.80E-11	0
INDENO(1,2,3-CD)PYRENE	193-39-5		8.89E-05	0
LEAD	7439-92-1	2.24	1.73E-02	0.007731461
MANGANESE	7439-96-5	25	4.06E-08	1.62233E-09

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Raccoon Dose (mg/kg/day)	Raccoon ESQ (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0
MERCURY	7439-97-6		0.00E+00	0
METHYL BROMIDE	74-83-9		2.45E-16	0
METHYL CHLORIDE	74-87-3		8.01E-13	0
METHYL ETHYL KETONE	78-93-3	497	2.21E-11	4.44547E-14
METHYL ISOBUTYL KETONE	108-10-1	7	4.28E-12	6.11433E-13
METHYL MERCURY	22967-92-6		3.06E-09	0
METHYLENE CHLORIDE	75-09-2	1.6	7.13E-11	4.45677E-11
METHYLNAPHTHALENE, 2-	91-57-6		1.38E-09	0
MOLYBDENUM	7439-98-7	0.04	3.19E-08	7.97191E-07
M-XYLENE	108-38-3		3.39E-10	0
NAPHTHALENE	91-20-3	2.5	3.22E-08	1.28695E-08
O-XYLENE	95-47-6		1.86E-10	0
PHENANTHRENE	85-01-8		1.67E-08	0
PHENOL	108-95-2		6.88E-10	0
PHOSPHOROUS	7723-14-0		4.85E-11	0
PROPIONALDEHYDE	123-38-6		8.30E-12	0
P-XYLENE	106-42-3		3.54E-10	0
PYRENE	129-00-0		1.92E-07	0
PYRIDINE	110-86-1		2.13E-11	0
SILVER	7440-22-4	14	1.94E-08	1.38481E-09
STRONTIUM	7440-24-6	74	9.73E-08	1.31479E-09
STYRENE	100-42-5		4.91E-10	0
SULFURIC ACID	7664-93-9		2.81E-13	0
TETRACHLOROETHYLENE	127-18-4		2.13E-13	0
TETRAHYDROFURAN	109-99-9		5.35E-13	0
THALLIUM	7440-28-0	0.002	1.27E-14	6.3282E-12
TIN	7440-31-5	3.6	4.28E-07	1.18857E-07
TOLUENE	108-88-3	3.9	7.88E-10	2.02019E-10

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	6.93E-18	6.54242E-17
TRICHLOROFLUOROMETHANE	75-69-4		7.47E-14	0
ZINC	7440-66-6	44.9	9.19E-07	2.04727E-08
DIOXIN TEQ (1)				7.05E-04
CUMULATIVE ESQ				**1.61E-02**
(1): See Appendix B for dioxin calculations				

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		7.79E-11	2.34E-12
1,2,4-TRIMETHYLBENZENE	95-63-6		5.59E-18	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		9.32E-14	0.00E+00
1,3-BUTADIENE	106-99-0		2.47E-14	0.00E+00
1,4-DIOXANE	123-91-1	0.14	3.00E-15	2.15E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		9.68E-13	2.90E-13
2-NITROPHENOL	88-75-5		4.15E-14	0.00E+00
ACENAPHTHENE	83-32-9		1.55E-12	0.00E+00
ACETALDEHYDE	75-07-0		1.76E-13	0.00E+00
ACETONE	67-64-1	2.8	2.75E-13	9.82E-14
ACETONITRILE	75-05-8		3.25E-14	0.00E+00
ACROLEIN	107-02-8		2.81E-13	0.00E+00
ACRYLONITRILE	107-13-1		1.03E-12	0.00E+00
ALUMINUM	7429-90-5	0.293	6.02E-08	2.05E-07
AMMONIA	7664-41-7		1.43E-11	0.00E+00
ANTHRACENE	120-12-7		5.58E-12	0.00E+00
ANTIMONY	7440-36-0	0.019	1.66E-11	8.72E-10
ARSENIC	7440-38-2	0.019	4.05E-09	2.13E-07
BARIUM	7440-39-3	1.5	1.39E-09	9.28E-10
BENZ(A)ANTHRACENE	56-55-3		1.51E-08	0.00E+00
BENZENE	71-43-2	4	2.08E-12	5.20E-13
BENZO(A)PYRENE	50-32-8	0.15	7.50E-08	5.00E-07
BENZO(B)FLUORANTHENE	205-99-2		3.21E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.46E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		2.59E-13	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.71E-09	9.01E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	2.26E-04	9.02E-05
BUTYLBENZYLPHTHALATE	85-68-7		4.83E-10	0.00E+00

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
CADMIUM	7440-43-9	0.271	1.36E-09	5.02E-09
CARBON TETRACHLORIDE	56-23-5	4.5	1.67E-15	3.71E-16
CHLOROETHANE	75-00-3		9.53E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	3.56E-12	8.48E-13
CHROMIUM	7440-47-3	768	2.22E-06	2.89E-09
CHRYSENE	218-01-9		8.15E-09	0.00E+00
COPPER	7440-50-8	4.3	6.35E-07	1.48E-07
CROTONALDEHYDE	123-73-9		3.43E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		7.61E-13	0.00E+00
CYANIDE	57-12-5	18.1	4.58E-13	2.53E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		2.21E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		9.91E-15	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	2.97E-13	4.26E-16
DIMETHYL PHTHALATE	131-11-3	3500	1.06E-12	3.03E-16
DI-N-BUTYL PHTHALATE	84-74-2	83	5.09E-10	6.14E-12
DI-N-OCTYL PHTHALATE	117-84-0	9780	2.23E-01	2.28E-05
ETHYL ACRYLATE	140-88-5		8.07E-12	0.00E+00
ETHYLBENZENE	100-41-4		2.16E-11	0.00E+00
FLUORANTHENE	206-44-0		2.53E-10	0.00E+00
FORMALDEHYDE	50-00-0	6.4	1.71E-12	2.67E-13
HEXACHLOROBENZENE	118-74-1		1.97E-22	0.00E+00
HEXANE, N-	110-54-3		2.27E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.40E-13	1.52E-13
HYDROGEN CHLORIDE	7647-01-0		1.15E-12	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.34E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		7.53E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.53E-07	0.00E+00
LEAD	7439-92-1	2.24	5.81E-05	2.59E-05
MANGANESE	7439-96-5	25	1.25E-10	5.01E-12

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		6.57E-16	0.00E+00
METHYL CHLORIDE	74-87-3		2.96E-14	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	6.03E-14	1.21E-16
METHYL ISOBUTYL KETONE	108-10-1	7	4.25E-14	6.07E-15
METHYL MERCURY	22967-92-6		8.23E-09	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	3.70E-13	2.31E-13
METHYLNAPHTHALENE, 2-	91-57-6		2.48E-09	0.00E+00
MOLYBDENUM	7439-98-7	0.04	9.35E-11	2.34E-09
M-XYLENE	108-38-3		3.56E-12	0.00E+00
NAPHTHALENE	91-20-3	2.5	9.00E-11	3.60E-11
O-XYLENE	95-47-6		1.96E-12	0.00E+00
PHENANTHRENE	85-01-8		4.90E-11	0.00E+00
PHENOL	108-95-2		2.06E-12	0.00E+00
PHOSPHOROUS	7723-14-0		1.65E-13	0.00E+00
PROPIONALDEHYDE	123-38-6		1.24E-12	0.00E+00
P-XYLENE	106-42-3		9.79E-12	0.00E+00
PYRENE	129-00-0		5.62E-10	0.00E+00
PYRIDINE	110-86-1		1.07E-12	0.00E+00
SILVER	7440-22-4	14	6.14E-11	4.38E-12
STRONTIUM	7440-24-6	74	2.85E-10	3.85E-12
STYRENE	100-42-5		1.44E-12	0.00E+00
SULFURIC ACID	7664-93-9		7.54E-13	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.49E-15	0.00E+00
TETRAHYDROFURAN	109-99-9		1.57E-15	0.00E+00
THALLIUM	7440-28-0	0.002	3.40E-14	1.70E-11
TIN	7440-31-5	3.6	1.25E-09	3.48E-10
TOLUENE	108-88-3	3.9	2.76E-12	7.07E-13

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	1.86E-17	1.76E-16
TRICHLOROFLUOROMETHANE	75-69-4		7.74E-16	0.00E+00
ZINC	7440-66-6	44.9	3.04E-09	6.77E-11
DIOXIN TEQ (1)				8.76E-06
CUMULATIVE ESQ				**1.49E-04**
(1): See Appendix B for dioxin calculations				

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Red Fox Dose (mg/kg/day)	Red Fox ESQ (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.84E-13	5.51492E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		1.47E-18	0
1,3,5-TRIMETHYLBENZENE	108-67-8		2.50E-14	0
1,3-BUTADIENE	106-99-0		9.22E-15	0
1,4-DIOXANE	123-91-1	0.14	8.34E-16	5.96047E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		7.13E-13	2.13909E-13
2-NITROPHENOL	88-75-5		1.09E-14	0
ACENAPHTHENE	83-32-9		4.50E-13	0
ACETALDEHYDE	75-07-0		6.22E-14	0
ACETONE	67-64-1	2.8	5.25E-14	1.87405E-14
ACETONITRILE	75-05-8		1.12E-14	0
ACROLEIN	107-02-8		1.07E-13	0
ACRYLONITRILE	107-13-1		1.63E-13	0
ALUMINUM	7429-90-5	0.293	1.58E-08	5.39701E-08
AMMONIA	7664-41-7		3.76E-12	0
ANTHRACENE	120-12-7		1.47E-12	0
ANTIMONY	7440-36-0	0.019	6.39E-12	3.36108E-10
ARSENIC	7440-38-2	0.019	8.45E-10	4.44883E-08
BARIUM	7440-39-3	1.5	3.63E-10	2.42261E-10
BENZ(A)ANTHRACENE	56-55-3		2.80E-09	0
BENZENE	71-43-2	4	5.05E-13	1.26353E-13
BENZO(A)PYRENE	50-32-8	0.15	1.94E-08	1.29094E-07
BENZO(B)FLUORANTHENE	205-99-2		5.76E-10	0
BENZO(K)FLUORANTHENE	207-08-9		9.80E-09	0
BENZYL CHLORIDE	100-44-7		9.99E-14	0
BERYLLIUM	7440-41-7	0.19	3.57E-10	1.8785E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	5.70E-07	2.28003E-07
BUTYLBENZYLPHTHALATE	85-68-7		1.27E-10	0

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
CADMIUM	7440-43-9	0.271	2.10E-10	7.73823E-10
CARBON TETRACHLORIDE	56-23-5	4.5	1.48E-16	3.29931E-17
CHLOROETHANE	75-00-3		2.56E-16	0
CHLOROFORM	67-66-3	4.2	1.37E-12	3.27082E-13
CHROMIUM	7440-47-3	768	5.78E-07	7.52818E-10
CHRYSENE	218-01-9		1.53E-09	0
COPPER	7440-50-8	4.3	1.53E-07	3.54766E-08
CROTONALDEHYDE	123-73-9		6.11E-15	0
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.87E-13	0
CYANIDE	57-12-5	18.1	1.77E-13	9.75196E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		3.96E-09	0
DICHLORODIFLUOROMETHANE	75-71-8		3.80E-15	0
DIETHYL PHTHALATE	84-66-2	696	6.00E-14	8.61439E-17
DIMETHYL PHTHALATE	131-11-3	3500	1.83E-13	5.22668E-17
DI-N-BUTYL PHTHALATE	84-74-2	83	5.09E-11	6.13823E-13
DI-N-OCTYL PHTHALATE	117-84-0	9780	2.50E-04	2.55404E-08
ETHYL ACRYLATE	140-88-5		3.11E-12	0
ETHYLBENZENE	100-41-4		8.31E-12	0
FLUORANTHENE	206-44-0		6.70E-11	0
FORMALDEHYDE	50-00-0	6.4	2.84E-13	4.43758E-14
HEXACHLOROBENZENE	118-74-1		7.58E-23	0
HEXANE, N-	110-54-3		8.47E-16	0
HEXAVALENT CHROMIUM	18540-29-9	0.92	5.38E-14	5.84864E-14
HYDROGEN CHLORIDE	7647-01-0		4.43E-13	0
HYDROGEN CYANIDE	74-90-8		3.67E-13	0
HYDROGEN FLOURIDE	7664-39-3		2.84E-13	0
INDENO(1,2,3-CD)PYRENE	193-39-5		6.33E-08	0
LEAD	7439-92-1	2.24	1.29E-05	5.76019E-06
MANGANESE	7439-96-5	25	3.36E-11	1.34237E-12

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Red Fox Dose (mg/kg/day)	Red Fox ESQ (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0
MERCURY	7439-97-6		0.00E+00	0
METHYL BROMIDE	74-83-9		2.54E-16	0
METHYL CHLORIDE	74-87-3		1.11E-14	0
METHYL ETHYL KETONE	78-93-3	497	9.79E-15	1.9694E-17
METHYL ISOBUTYL KETONE	108-10-1	7	1.33E-14	1.89446E-15
METHYL MERCURY	22967-92-6		3.17E-09	0
METHYLENE CHLORIDE	75-09-2	1.6	1.03E-13	6.43396E-14
METHYLNAPHTHALENE, 2-	91-57-6		9.57E-10	0
MOLYBDENUM	7439-98-7	0.04	2.46E-11	6.15656E-10
M-XYLENE	108-38-3		1.04E-13	0
NAPHTHALENE	91-20-3	2.5	1.70E-11	6.78754E-12
O-XYLENE	95-47-6		5.82E-14	0
PHENANTHRENE	85-01-8		1.29E-11	0
PHENOL	108-95-2		5.48E-13	0
PHOSPHOROUS	7723-14-0		4.62E-14	0
PROPIONALDEHYDE	123-38-6		4.77E-13	0
P-XYLENE	106-42-3		2.46E-12	0
PYRENE	129-00-0		1.48E-10	0
PYRIDINE	110-86-1		4.05E-13	0
SILVER	7440-22-4	14	1.47E-11	1.04971E-12
STRONTIUM	7440-24-6	74	7.51E-11	1.01537E-12
STYRENE	100-42-5		3.79E-13	0
SULFURIC ACID	7664-93-9		2.91E-13	0
TETRACHLOROETHYLENE	127-18-4		8.83E-16	0
TETRAHYDROFURAN	109-99-9		4.13E-16	0
THALLIUM	7440-28-0	0.002	1.31E-14	6.55681E-12
TIN	7440-31-5	3.6	3.30E-10	9.17888E-11
TOLUENE	108-88-3	3.9	5.59E-13	1.43393E-13

Table 46 - Aquatic Mammalian Receptor ESQs: Propellant 183 Day Scenario				
COPC	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	7.19E-18	6.77889E-17
TRICHLOROFLUOROMETHANE	75-69-4		2.72E-16	0
ZINC	7440-66-6	44.9	6.63E-10	1.47696E-11
DIOXIN TEQ (1)				7.31414E-07
CUMULATIVE ESQ				**7.01E-06**
(1): See Appendix B for dioxin calculations				

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		3.45E-18	3.45E-19
1,2,4-TRIMETHYLBENZENE	95-63-6		1.11E-20	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.63E-16	0.00E+00
1,3-BUTADIENE	106-99-0		9.31E-17	0.00E+00
1,4-DIOXANE	123-91-1		2.38E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.29E-18	1.29E-18
2-NITROPHENOL	88-75-5		2.09E-15	0.00E+00
ACENAPHTHENE	83-32-9		4.40E-16	0.00E+00
ACETALDEHYDE	75-07-0		1.61E-13	0.00E+00
ACETONE	67-64-1		2.56E-13	0.00E+00
ACETONITRILE	75-05-8		3.75E-14	0.00E+00
ACROLEIN	107-02-8		1.04E-14	0.00E+00
ACRYLONITRILE	107-13-1		8.83E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	2.88E-12	2.63E-14
AMMONIA	7664-41-7		1.50E-11	0.00E+00
ANTHRACENE	120-12-7		4.29E-16	0.00E+00
ANTIMONY	7440-36-0		2.07E-16	0.00E+00
ARSENIC	7440-38-2	2.5	1.35E-11	5.38E-12
BARIUM	7440-39-3	20.8	1.21E-11	5.81E-13
BENZ(A)ANTHRACENE	56-55-3		9.66E-12	0.00E+00
BENZENE	71-43-2		1.70E-13	0.00E+00
BENZO(A)PYRENE	50-32-8		3.29E-11	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		9.90E-13	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.73E-11	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		7.17E-13	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.04E-09	9.43E-10

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		1.21E-13	0.00E+00
CADMIUM	7440-43-9	1.45	1.82E-11	1.26E-11
CARBON TETRACHLORIDE	56-23-5		2.63E-17	0.00E+00
CHLOROETHANE	75-00-3		7.44E-17	0.00E+00
CHLOROFORM	67-66-3		6.64E-17	0.00E+00
CHROMIUM	7440-47-3	1	3.95E-09	3.95E-09
CHRYSENE	218-01-9		4.92E-12	0.00E+00
COPPER	7440-50-8	47	1.13E-08	2.41E-10
CROTONALDEHYDE	123-73-9		2.95E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.04E-16	0.00E+00
CYANIDE	57-12-5		3.35E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		4.33E-12	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		6.91E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.88E-14	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.44E-13	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		9.72E-13	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		5.05E-12	0.00E+00
ETHYL ACRYLATE	140-88-5		7.37E-18	0.00E+00
ETHYLBENZENE	100-41-4		8.53E-16	0.00E+00
FLUORANTHENE	206-44-0		9.41E-15	0.00E+00
FORMALDEHYDE	50-00-0		3.05E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		3.04E-18	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		3.00E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		9.32E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		3.82E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		5.47E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		4.21E-11	0.00E+00

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	1.11E-07	9.86E-08
MANGANESE	7439-96-5	997	5.45E-13	5.47E-16
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		3.12E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		5.05E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		4.20E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		6.47E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		9.69E-16	0.00E+00
MOLYBDENUM	7439-98-7	3.5	3.32E-13	9.49E-14
M-XYLENE	108-38-3		1.18E-14	0.00E+00
NAPHTHALENE	91-20-3		3.46E-11	0.00E+00
O-XYLENE	95-47-6		6.44E-15	0.00E+00
PHENANTHRENE	85-01-8		3.34E-15	0.00E+00
PHENOL	108-95-2		1.91E-14	0.00E+00
PHOSPHOROUS	7723-14-0		7.67E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		1.07E-14	0.00E+00
P-XYLENE	106-42-3		1.22E-14	0.00E+00
PYRENE	129-00-0		1.99E-14	0.00E+00
PYRIDINE	110-86-1		1.52E-15	0.00E+00
SILVER	7440-22-4	4.2	5.02E-13	1.19E-13
STRONTIUM	7440-24-6		5.79E-13	0.00E+00
STYRENE	100-42-5		5.74E-15	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.16E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		8.84E-16	0.00E+00

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	3.58E-13	5.26E-14
TOLUENE	108-88-3		1.09E-13	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		8.83E-18	0.00E+00
ZINC	7440-66-6	14.5	1.12E-10	7.74E-12
DIOXIN TEQ (1)				1.16E-13
CUMULATIVE ESQ				**1.04E-07**
(1): See Appendix B for dioxin calculations				

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.51E-10	2.51E-11
1,2,4-TRIMETHYLBENZENE	95-63-6		3.26E-15	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		5.20E-11	0.00E+00
1,3-BUTADIENE	106-99-0		1.38E-12	0.00E+00
1,4-DIOXANE	123-91-1		2.25E-12	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		3.36E-10	3.36E-10
2-NITROPHENOL	88-75-5		2.42E-11	0.00E+00
ACENAPHTHENE	83-32-9		7.05E-10	0.00E+00
ACETALDEHYDE	75-07-0		2.66E-11	0.00E+00
ACETONE	67-64-1		3.38E-10	0.00E+00
ACETONITRILE	75-05-8		6.19E-12	0.00E+00
ACROLEIN	107-02-8		4.76E-12	0.00E+00
ACRYLONITRILE	107-13-1		1.49E-09	0.00E+00
ALUMINUM	7429-90-5	109.7	3.50E-05	3.19E-07
AMMONIA	7664-41-7		8.32E-09	0.00E+00
ANTHRACENE	120-12-7		3.25E-09	0.00E+00
ANTIMONY	7440-36-0		1.19E-11	0.00E+00
ARSENIC	7440-38-2	2.5	1.88E-06	7.50E-07
BARIUM	7440-39-3	20.8	8.18E-07	3.93E-08
BENZ(A)ANTHRACENE	56-55-3		6.29E-06	0.00E+00
BENZENE	71-43-2		1.12E-09	0.00E+00
BENZO(A)PYRENE	50-32-8		4.33E-05	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		1.29E-06	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		2.26E-05	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		7.91E-07	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	8.87E-04	8.06E-04

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Mallard Duck Dose	Mallard Duck ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		2.81E-07	0.00E+00
CADMIUM	7440-43-9	1.45	4.91E-07	3.38E-07
CARBON TETRACHLORIDE	56-23-5		2.16E-13	0.00E+00
CHLOROETHANE	75-00-3		5.30E-13	0.00E+00
CHLOROFORM	67-66-3		2.81E-13	0.00E+00
CHROMIUM	7440-47-3	1	1.32E-03	1.32E-03
CHRYSENE	218-01-9		3.46E-06	0.00E+00
COPPER	7440-50-8	47	3.53E-04	7.50E-06
CROTONALDEHYDE	123-73-9		4.18E-11	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		3.18E-11	0.00E+00
CYANIDE	57-12-5		3.67E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		8.94E-06	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		9.94E-14	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.46E-10	0.00E+00
DIMETHYL PHTHALATE	131-11-3		6.11E-10	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.13E-07	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		5.39E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		4.80E-14	0.00E+00
ETHYLBENZENE	100-41-4		1.25E-10	0.00E+00
FLUORANTHENE	206-44-0		1.46E-07	0.00E+00
FORMALDEHYDE	50-00-0		2.33E-09	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		1.31E-13	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		4.18E-14	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		1.02E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.17E-10	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		3.03E-11	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.42E-04	0.00E+00

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Mallard Duck Dose	Mallard Duck ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	2.87E-02	2.54E-02
MANGANESE	7439-96-5	997	6.96E-08	6.99E-11
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.35E-12	0.00E+00
METHYL ETHYL KETONE	78-93-3		7.52E-11	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		9.73E-12	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		1.71E-10	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		7.86E-10	0.00E+00
MOLYBDENUM	7439-98-7	3.5	5.45E-08	1.56E-08
M-XYLENE	108-38-3		2.49E-10	0.00E+00
NAPHTHALENE	91-20-3		8.90E-08	0.00E+00
O-XYLENE	95-47-6		1.37E-10	0.00E+00
PHENANTHRENE	85-01-8		2.85E-08	0.00E+00
PHENOL	108-95-2		1.18E-09	0.00E+00
PHOSPHOROUS	7723-14-0		8.28E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		1.34E-11	0.00E+00
P-XYLENE	106-42-3		2.59E-10	0.00E+00
PYRENE	129-00-0		3.41E-07	0.00E+00
PYRIDINE	110-86-1		3.58E-11	0.00E+00
SILVER	7440-22-4	4.2	3.25E-08	7.75E-09
STRONTIUM	7440-24-6		1.66E-07	0.00E+00
STYRENE	100-42-5		8.39E-10	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		3.62E-13	0.00E+00
TETRAHYDROFURAN	109-99-9		9.14E-13	0.00E+00

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	7.31E-07	1.08E-07
TOLUENE	108-88-3		1.38E-09	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.27E-13	0.00E+00
ZINC	7440-66-6	14.5	1.63E-06	1.12E-07
DIOXIN TEQ (1)				2.58E-05
CUMULATIVE ESQ				**2.76E-02**
(1): See Appendix B for dioxin calculations				

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Great Blue Heron Dose	Great Blue Heron ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.75E-15	2.75E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		9.40E-21	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.24E-16	0.00E+00
1,3-BUTADIENE	106-99-0		7.90E-17	0.00E+00
1,4-DIOXANE	123-91-1		9.20E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		3.25E-13	3.25E-13
2-NITROPHENOL	88-75-5		1.78E-15	0.00E+00
ACENAPHTHENE	83-32-9		3.74E-16	0.00E+00
ACETALDEHYDE	75-07-0		1.37E-13	0.00E+00
ACETONE	67-64-1		7.34E-14	0.00E+00
ACETONITRILE	75-05-8		3.18E-14	0.00E+00
ACROLEIN	107-02-8		8.82E-15	0.00E+00
ACRYLONITRILE	107-13-1		2.12E-11	0.00E+00
ALUMINUM	7429-90-5	109.7	2.85E-11	2.60E-13
AMMONIA	7664-41-7		1.28E-11	0.00E+00
ANTHRACENE	120-12-7		3.64E-16	0.00E+00
ANTIMONY	7440-36-0		4.31E-15	0.00E+00
ARSENIC	7440-38-2	2.5	3.04E-09	1.22E-09
BARIUM	7440-39-3	20.8	5.14E-09	2.47E-10
BENZ(A)ANTHRACENE	56-55-3		2.20E-09	0.00E+00
BENZENE	71-43-2		1.59E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		6.86E-09	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		1.34E-10	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.58E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		2.58E-11	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	3.79E-08	3.44E-08
BUTYLBENZYLPHTHALATE	85-68-7		1.02E-13	0.00E+00
CADMIUM	7440-43-9	1.45	2.32E-09	1.60E-09

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Great Blue Heron Dose	Great Blue Heron ESQ
		mg/kg/day	mg/kg/day	Unitless
CARBON TETRACHLORIDE	56-23-5		1.38E-15	0.00E+00
CHLOROETHANE	75-00-3		6.32E-17	0.00E+00
CHLOROFORM	67-66-3		2.64E-16	0.00E+00
CHROMIUM	7440-47-3	1	7.17E-12	7.17E-12
CHRYSENE	218-01-9		1.19E-09	0.00E+00
COPPER	7440-50-8	47	2.84E-06	6.03E-08
CROTONALDEHYDE	123-73-9		2.76E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		8.85E-17	0.00E+00
CYANIDE	57-12-5		1.42E-12	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		6.96E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		5.86E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		3.92E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		3.93E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.84E-13	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		5.85E-07	0.00E+00
ETHYL ACRYLATE	140-88-5		6.26E-18	0.00E+00
ETHYLBENZENE	100-41-4		7.24E-16	0.00E+00
FLUORANTHENE	206-44-0		7.99E-15	0.00E+00
FORMALDEHYDE	50-00-0		3.84E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		2.58E-18	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		1.82E-16	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		7.91E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		3.25E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		4.64E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		9.76E-09	0.00E+00
LEAD	7439-92-1	1.13	4.49E-09	3.98E-09
MANGANESE	7439-96-5	997	3.53E-11	3.54E-14
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Bird TRV	Great Blue Heron Dose	Great Blue Heron ESQ
		mg/kg/day	mg/kg/day	Unitless
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		2.65E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.50E-13	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.75E-14	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		1.05E-12	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		8.22E-16	0.00E+00
MOLYBDENUM	7439-98-7	3.5	1.16E-11	3.30E-12
M-XYLENE	108-38-3		4.69E-12	0.00E+00
NAPHTHALENE	91-20-3		2.13E-11	0.00E+00
O-XYLENE	95-47-6		2.53E-12	0.00E+00
PHENANTHRENE	85-01-8		2.84E-15	0.00E+00
PHENOL	108-95-2		1.63E-14	0.00E+00
PHOSPHOROUS	7723-14-0		6.52E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		9.12E-15	0.00E+00
P-XYLENE	106-42-3		4.87E-12	0.00E+00
PYRENE	129-00-0		1.69E-14	0.00E+00
PYRIDINE	110-86-1		1.29E-15	0.00E+00
SILVER	7440-22-4	4.2	1.43E-10	3.39E-11
STRONTIUM	7440-24-6		1.18E-10	0.00E+00
STYRENE	100-42-5		4.87E-15	0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00	0.00E+00
TETRACHLOROETHYLENE	127-18-4		9.88E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		7.50E-16	0.00E+00
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	3.63E-09	5.34E-10
TOLUENE	108-88-3		1.37E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00

Table 47 - Aquatic Avian Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
TRICHLOROFLUOROMETHANE	75-69-4		7.50E-18	0.00E+00
ZINC	7440-66-6	14.5	2.02E-08	1.39E-09
DIOXIN TEQ (1)				2.32E-08
CUMULATIVE ESQ				**1.27E-07**
(1): See Appendix B for dioxin calculations				

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Meadow Vole Dose (mg/kg/day)	Meadow Vole ESQ (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		6.64467E-14	1.9934E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		5.43912E-18	0
1,3,5-TRIMETHYLBENZENE	108-67-8		8.72147E-14	0
1,3-BUTADIENE	106-99-0		2.64982E-15	0
1,4-DIOXANE	123-91-1	0.14	1.60893E-14	1.14924E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		5.53913E-13	1.66174E-13
2-NITROPHENOL	88-75-5		4.83752E-14	0
ACENAPHTHENE	83-32-9		1.16962E-12	0
ACETALDEHYDE	75-07-0		6.83365E-13	0
ACETONE	67-64-1	2.8	2.01494E-12	7.1962E-13
ACETONITRILE	75-05-8		1.58661E-13	0
ACROLEIN	107-02-8		4.90438E-14	0
ACRYLONITRILE	107-13-1		7.67048E-12	0
ALUMINUM	7429-90-5	0.293	5.79304E-08	1.97715E-07
AMMONIA	7664-41-7		7.33577E-11	0
ANTHRACENE	120-12-7		5.38598E-12	0
ANTIMONY	7440-36-0	0.019	2.09032E-14	1.10017E-12
ARSENIC	7440-38-2	0.019	3.16902E-09	1.6679E-07
BARIUM	7440-39-3	1.5	1.42499E-09	9.49993E-10
BENZ(A)ANTHRACENE	56-55-3		1.04693E-08	0
BENZENE	71-43-2	4	2.87927E-12	7.19817E-13
BENZO(A)PYRENE	50-32-8	0.15	7.19464E-08	4.79643E-07
BENZO(B)FLUORANTHENE	205-99-2		2.14317E-09	0
BENZO(K)FLUORANTHENE	207-08-9		3.7493E-08	0
BENZYL CHLORIDE	100-44-7		0	0
BERYLLIUM	7440-41-7	0.19	1.31297E-09	6.91038E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	5.73764E-07	2.29506E-07
BUTYLBENZYLPHTHALATE	85-68-7		4.66651E-10	0

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Meadow Vole Dose (mg/kg/day)	Meadow Vole ESQ (unitless)
CADMIUM	7440-43-9	0.271	9.22183E-10	3.40289E-09
CARBON TETRACHLORIDE	56-23-5	4.5	4.86859E-16	1.08191E-16
CHLOROETHANE	75-00-3		1.17348E-15	0
CHLOROFORM	67-66-3	4.2	8.31715E-16	1.98027E-16
CHROMIUM	7440-47-3	768	2.20747E-06	2.87431E-09
CHRYSENE	218-01-9		5.75422E-09	0
COPPER	7440-50-8	4.3	6.52057E-07	1.51641E-07
CROTONALDEHYDE	123-73-9		2.29107E-13	0
CUMENE (ISOPROPYLBENZENE)	98-82-8		5.30716E-14	0
CYANIDE	57-12-5	18.1	1.32723E-12	7.33276E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		1.48035E-08	0
DICHLORODIFLUOROMETHANE	75-71-8		1.92045E-16	0
DIETHYL PHTHALATE	84-66-2	696	3.47933E-13	4.99903E-16
DIMETHYL PHTHALATE	131-11-3	3500	1.89919E-12	5.42627E-16
DI-N-BUTYL PHTHALATE	84-74-2	83	1.92023E-10	2.31353E-12
DI-N-OCTYL PHTHALATE	117-84-0	9780	2.33863E-07	2.39123E-11
ETHYL ACRYLATE	140-88-5		1.08674E-16	0
ETHYLBENZENE	100-41-4		2.10051E-13	0
FLUORANTHENE	206-44-0		2.42138E-10	0
FORMALDEHYDE	50-00-0	6.4	1.85518E-11	2.89872E-12
HEXACHLOROBENZENE	118-74-1		0	0
HEXANE, N-	110-54-3		2.28928E-16	0
HEXAVALENT CHROMIUM	18540-29-9	0.92	7.05327E-17	7.6666E-17
HYDROGEN CHLORIDE	7647-01-0		3.69357E-22	0
HYDROGEN CYANIDE	74-90-8		1.63362E-11	0
HYDROGEN FLOURIDE	7664-39-3		2.66728E-13	0
INDENO(1,2,3-CD)PYRENE	193-39-5		2.34671E-07	0
LEAD	7439-92-1	2.24	4.8222E-05	2.15277E-05
MANGANESE	7439-96-5	25	1.1848E-10	4.7392E-12

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Meadow Vole Dose (mg/kg/day)	Meadow Vole ESQ (unitless)
MERCURIC CHLORIDE	7487-94-7		0	0
MERCURY	7439-97-6		0	0
METHYL BROMIDE	74-83-9		0	0
METHYL CHLORIDE	74-87-3		3.47361E-15	0
METHYL ETHYL KETONE	78-93-3	497	4.09882E-13	8.24711E-16
METHYL ISOBUTYL KETONE	108-10-1	7	3.90928E-14	5.58469E-15
METHYL MERCURY	22967-92-6		0	0
METHYLENE CHLORIDE	75-09-2	1.6	6.56339E-13	4.10212E-13
METHYLNAPHTHALENE, 2-	91-57-6		1.30562E-12	0
MOLYBDENUM	7439-98-7	0.04	9.15745E-11	2.28936E-09
M-XYLENE	108-38-3		4.69558E-13	0
NAPHTHALENE	91-20-3	2.5	3.62594E-10	1.45038E-10
O-XYLENE	95-47-6		2.5794E-13	0
PHENANTHRENE	85-01-8		4.72295E-11	0
PHENOL	108-95-2		2.02299E-12	0
PHOSPHOROUS	7723-14-0		1.40274E-13	0
PROPIONALDEHYDE	123-38-6		6.47798E-14	0
P-XYLENE	106-42-3		4.87776E-13	0
PYRENE	129-00-0		5.64502E-10	0
PYRIDINE	110-86-1		6.53437E-14	0
SILVER	7440-22-4	14	5.5922E-11	3.99443E-12
STRONTIUM	7440-24-6	74	2.77603E-10	3.7514E-12
STYRENE	100-42-5		1.4128E-12	0
SULFURIC ACID	7664-93-9		0	0
TETRACHLOROETHYLENE	127-18-4		6.46211E-16	0
TETRAHYDROFURAN	109-99-9		5.01522E-15	0
THALLIUM	7440-28-0	0.002	0	0
TIN	7440-31-5	3.6	1.21257E-09	3.36824E-10
TOLUENE	108-88-3	3.9	2.92307E-12	7.49506E-13

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV (mg/kg/day)**	**Meadow Vole Dose (mg/kg/day)**	**Meadow Vole ESQ (unitless)**
TRICHLOROETHYLENE	79-01-6	0.106	0	0
TRICHLOROFLUOROMETHANE	75-69-4		2.45642E-16	0
ZINC	7440-66-6	44.9	3.39275E-09	7.55623E-11
DIOXIN TEQ (1)				5.61E-07
CUMULATIVE ESQ				**2.33E-05**
(1): See Appendix B for dioxin calculations				

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Raccoon Dose (mg/kg/day)	Raccoon ESQ (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.12135E-08	3.36405E-10
1,2,4-TRIMETHYLBENZENE	95-63-6		3.80367E-15	0
1,3,5-TRIMETHYLBENZENE	108-67-8		6.07507E-11	0
1,3-BUTADIENE	106-99-0		1.60832E-12	0
1,4-DIOXANE	123-91-1	0.14	1.09243E-12	7.8031E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		4.55313E-10	1.36594E-10
2-NITROPHENOL	88-75-5		2.82622E-11	0
ACENAPHTHENE	83-32-9		8.23353E-10	0
ACETALDEHYDE	75-07-0		3.11686E-11	0
ACETONE	67-64-1	2.8	1.67395E-10	5.97839E-11
ACETONITRILE	75-05-8		7.23659E-12	0
ACROLEIN	107-02-8		5.56048E-12	0
ACRYLONITRILE	107-13-1		8.46289E-10	0
ALUMINUM	7429-90-5	0.293	4.08555E-05	0.000139439
AMMONIA	7664-41-7		9.72714E-09	0
ANTHRACENE	120-12-7		3.79592E-09	0
ANTIMONY	7440-36-0	0.019	1.36724E-11	7.196E-10
ARSENIC	7440-38-2	0.019	2.28936E-06	0.000120492
BARIUM	7440-39-3	1.5	9.44974E-07	6.29983E-07
BENZ(A)ANTHRACENE	56-55-3		7.91462E-06	0
BENZENE	71-43-2	4	1.15917E-09	2.89791E-10
BENZO(A)PYRENE	50-32-8	0.15	5.07353E-05	0.000338235
BENZO(B)FLUORANTHENE	205-99-2		1.63947E-06	0
BENZO(K)FLUORANTHENE	207-08-9		2.86812E-05	0
BENZYL CHLORIDE	100-44-7		0	0
BERYLLIUM	7440-41-7	0.19	9.67875E-07	5.09408E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	0.029231405	0.011692562
BUTYLBENZYLPHTHALATE	85-68-7		3.28652E-07	0

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Raccoon Dose (mg/kg/day)	Raccoon ESQ (unitless)
CADMIUM	7440-43-9	0.271	6.21975E-07	2.29511E-06
CARBON TETRACHLORIDE	56-23-5	4.5	3.8432E-13	8.54044E-14
CHLOROETHANE	75-00-3		6.19558E-13	0
CHLOROFORM	67-66-3	4.2	3.11059E-13	7.40618E-14
CHROMIUM	7440-47-3	768	0.001536762	2.00099E-06
CHRYSENE	218-01-9		4.33686E-06	0
COPPER	7440-50-8	4.3	0.000406269	9.44813E-05
CROTONALDEHYDE	123-73-9		2.65721E-11	0
CUMENE (ISOPROPYLBENZENE)	98-82-8		3.71244E-11	0
CYANIDE	57-12-5	18.1	5.24572E-13	2.89819E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		1.13396E-05	0
DICHLORODIFLUOROMETHANE	75-71-8		1.16113E-13	0
DIETHYL PHTHALATE	84-66-2	696	1.61585E-10	2.32162E-13
DIMETHYL PHTHALATE	131-11-3	3500	5.86257E-10	1.67502E-13
DI-N-BUTYL PHTHALATE	84-74-2	83	1.73391E-07	2.08905E-09
DI-N-OCTYL PHTHALATE	117-84-0	9780	28.52633393	0.002916803
ETHYL ACRYLATE	140-88-5		5.60463E-14	0
ETHYLBENZENE	100-41-4		1.45705E-10	0
FLUORANTHENE	206-44-0		1.70681E-07	0
FORMALDEHYDE	50-00-0	6.4	1.38155E-09	2.15867E-10
HEXACHLOROBENZENE	118-74-1		0	0
HEXANE, N-	110-54-3		1.52919E-13	0
HEXAVALENT CHROMIUM	18540-29-9	0.92	4.88285E-14	5.30744E-14
HYDROGEN CHLORIDE	7647-01-0		1.45984E-22	0
HYDROGEN CYANIDE	74-90-8		8.38621E-10	0
HYDROGEN FLOURIDE	7664-39-3		3.53678E-11	0
INDENO(1,2,3-CD)PYRENE	193-39-5		0.000179922	0
LEAD	7439-92-1	2.24	0.034547756	0.015423105
MANGANESE	7439-96-5	25	8.08917E-08	3.23567E-09

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Raccoon Dose (mg/kg/day)	Raccoon ESQ (unitless)
MERCURIC CHLORIDE	7487-94-7		0	0
MERCURY	7439-97-6		0	0
METHYL BROMIDE	74-83-9		0	0
METHYL CHLORIDE	74-87-3		1.57882E-12	0
METHYL ETHYL KETONE	78-93-3	497	4.40852E-11	8.87027E-14
METHYL ISOBUTYL KETONE	108-10-1	7	8.51817E-12	1.21688E-12
METHYL MERCURY	22967-92-6		0	0
METHYLENE CHLORIDE	75-09-2	1.6	1.42132E-10	8.88322E-11
METHYLNAPHTHALENE, 2-	91-57-6		9.17755E-10	0
MOLYBDENUM	7439-98-7	0.04	6.36324E-08	1.59081E-06
M-XYLENE	108-38-3		6.76293E-10	0
NAPHTHALENE	91-20-3	2.5	6.41719E-08	2.56688E-08
O-XYLENE	95-47-6		3.7162E-10	0
PHENANTHRENE	85-01-8		3.32875E-08	0
PHENOL	108-95-2		1.37276E-09	0
PHOSPHOROUS	7723-14-0		9.67509E-11	0
PROPIONALDEHYDE	123-38-6		1.56743E-11	0
P-XYLENE	106-42-3		7.02531E-10	0
PYRENE	129-00-0		3.97918E-07	0
PYRIDINE	110-86-1		4.18181E-11	0
SILVER	7440-22-4	14	3.86695E-08	2.76211E-09
STRONTIUM	7440-24-6	74	1.94093E-07	2.62288E-09
STYRENE	100-42-5		9.80009E-10	0
SULFURIC ACID	7664-93-9		0	0
TETRACHLOROETHYLENE	127-18-4		4.23101E-13	0
TETRAHYDROFURAN	109-99-9		1.06803E-12	0
THALLIUM	7440-28-0	0.002	0	0
TIN	7440-31-5	3.6	8.53862E-07	2.37184E-07
TOLUENE	108-88-3	3.9	1.57147E-09	4.0294E-10

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV (mg/kg/day)**	**Raccoon Dose (mg/kg/day)**	**Raccoon ESQ (unitless)**
TRICHLOROETHYLENE	79-01-6	0.106	0	0
TRICHLOROFLUOROMETHANE	75-69-4		1.48519E-13	0
ZINC	7440-66-6	44.9	1.83369E-06	4.08395E-08
DIOXIN TEQ (1)				1.58E-03
CUMULATIVE ESQ				**3.23E-02**
(1): See Appendix B for dioxin calculations				

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Short Tailed Shrew Dose (mg/kg/day)	Short Tailed Shrew ESQ (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.7396E-10	5.21881E-12
1,2,4-TRIMETHYLBENZENE	95-63-6		1.11968E-17	0
1,3,5-TRIMETHYLBENZENE	108-67-8		1.79195E-13	0
1,3-BUTADIENE	106-99-0		5.10581E-15	0
1,4-DIOXANE	123-91-1	0.14	6.96132E-15	4.97237E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.15355E-12	6.46066E-13
2-NITROPHENOL	88-75-5		9.16443E-14	0
ACENAPHTHENE	83-32-9		2.41546E-12	0
ACETALDEHYDE	75-07-0		7.6973E-13	0
ACETONE	67-64-1	2.8	6.50711E-13	2.32397E-13
ACETONITRILE	75-05-8		1.78712E-13	0
ACROLEIN	107-02-8		5.99814E-14	0
ACRYLONITRILE	107-13-1		2.58806E-12	0
ALUMINUM	7429-90-5	0.293	1.20063E-07	4.09771E-07
AMMONIA	7664-41-7		9.17284E-11	0
ANTHRACENE	120-12-7		1.11293E-11	0
ANTIMONY	7440-36-0	0.019	4.01035E-14	2.11071E-12
ARSENIC	7440-38-2	0.019	8.11052E-09	4.26869E-07
BARIUM	7440-39-3	1.5	2.78729E-09	1.85819E-09
BENZ(A)ANTHRACENE	56-55-3		3.06164E-08	0
BENZENE	71-43-2	4	3.71248E-12	9.2812E-13
BENZO(A)PYRENE	50-32-8	0.15	1.5118E-07	1.00787E-06
BENZO(B)FLUORANTHENE	205-99-2		6.49892E-09	0
BENZO(K)FLUORANTHENE	207-08-9		1.13693E-07	0
BENZYL CHLORIDE	100-44-7		0	0
BERYLLIUM	7440-41-7	0.19	3.41718E-09	1.79852E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	0.000449984	0.000179994
BUTYLBENZYLPHTHALATE	85-68-7		9.63932E-10	0

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Short Tailed Shrew Dose (mg/kg/day)	Short Tailed Shrew ESQ (unitless)
CADMIUM	7440-43-9	0.271	2.71551E-09	1.00203E-08
CARBON TETRACHLORIDE	56-23-5	4.5	3.07616E-15	6.8359E-16
CHLOROETHANE	75-00-3		2.12895E-15	0
CHLOROFORM	67-66-3	4.2	1.45444E-15	3.46294E-16
CHROMIUM	7440-47-3	768	4.5346E-06	5.90443E-09
CHRYSENE	218-01-9		1.65945E-08	0
COPPER	7440-50-8	4.3	1.2722E-06	2.95861E-07
CROTONALDEHYDE	123-73-9		1.12768E-13	0
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.09266E-13	0
CYANIDE	57-12-5	18.1	1.40939E-12	7.78669E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		4.49532E-08	0
DICHLORODIFLUOROMETHANE	75-71-8		3.69402E-16	0
DIETHYL PHTHALATE	84-66-2	696	5.91749E-13	8.50214E-16
DIMETHYL PHTHALATE	131-11-3	3500	2.13108E-12	6.08881E-16
DI-N-BUTYL PHTHALATE	84-74-2	83	1.04992E-09	1.26497E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	0.444045658	4.54034E-05
ETHYL ACRYLATE	140-88-5		1.95262E-16	0
ETHYLBENZENE	100-41-4		4.30711E-13	0
FLUORANTHENE	206-44-0		5.00381E-10	0
FORMALDEHYDE	50-00-0	6.4	1.14605E-11	1.7907E-12
HEXACHLOROBENZENE	118-74-1		0	0
HEXANE, N-	110-54-3		4.61032E-16	0
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.44586E-16	1.57159E-16
HYDROGEN CHLORIDE	7647-01-0		3.92222E-22	0
HYDROGEN CYANIDE	74-90-8		1.85341E-11	0
HYDROGEN FLOURIDE	7664-39-3		3.33524E-13	0
INDENO(1,2,3-CD)PYRENE	193-39-5		7.13292E-07	0
LEAD	7439-92-1	2.24	0.000115899	5.17406E-05
MANGANESE	7439-96-5	25	2.37979E-10	9.51916E-12

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Short Tailed Shrew Dose (mg/kg/day)	Short Tailed Shrew ESQ (unitless)
MERCURIC CHLORIDE	7487-94-7		0	0
MERCURY	7439-97-6		0	0
METHYL BROMIDE	74-83-9		0	0
METHYL CHLORIDE	74-87-3		5.93808E-15	0
METHYL ETHYL KETONE	78-93-3	497	1.6876E-13	3.39558E-16
METHYL ISOBUTYL KETONE	108-10-1	7	3.513E-14	5.01857E-15
METHYL MERCURY	22967-92-6		0	0
METHYLENE CHLORIDE	75-09-2	1.6	4.80996E-13	3.00623E-13
METHYLNAPHTHALENE, 2-	91-57-6		2.69442E-12	0
MOLYBDENUM	7439-98-7	0.04	1.87931E-10	4.69828E-09
M-XYLENE	108-38-3		7.10992E-12	0
NAPHTHALENE	91-20-3	2.5	1.79869E-10	7.19474E-11
O-XYLENE	95-47-6		3.90678E-12	0
PHENANTHRENE	85-01-8		9.75943E-11	0
PHENOL	108-95-2		4.10463E-12	0
PHOSPHOROUS	7723-14-0		2.86845E-13	0
PROPIONALDEHYDE	123-38-6		9.11048E-14	0
P-XYLENE	106-42-3		7.38577E-12	0
PYRENE	129-00-0		1.16656E-09	0
PYRIDINE	110-86-1		1.28984E-13	0
SILVER	7440-22-4	14	1.24365E-10	8.88321E-12
STRONTIUM	7440-24-6	74	5.71408E-10	7.72173E-12
STYRENE	100-42-5		2.89695E-12	0
SULFURIC ACID	7664-93-9		0	0
TETRACHLOROETHYLENE	127-18-4		1.28919E-15	0
TETRAHYDROFURAN	109-99-9		6.84586E-15	0
THALLIUM	7440-28-0	0.002	0	0
TIN	7440-31-5	3.6	2.50455E-09	6.95708E-10
TOLUENE	108-88-3	3.9	5.56533E-12	1.42701E-12

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV (mg/kg/day)**	**Short Tailed Shrew Dose (mg/kg/day)**	**Short Tailed Shrew ESQ (unitless)**
TRICHLOROETHYLENE	79-01-6	0.106	0	0
TRICHLOROFLUOROMETHANE	75-69-4		4.72497E-16	0
ZINC	7440-66-6	44.9	6.0737E-09	1.35272E-10
DIOXIN TEQ (1)				1.95E-05
CUMULATIVE ESQ				**2.99E-04**
(1): See Appendix B for dioxin calculations				

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Red Fox Dose (mg/kg/day)	Red Fox ESQ (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		4.10292E-13	1.23088E-14
1,2,4-TRIMETHYLBENZENE	95-63-6		2.95538E-18	0
1,3,5-TRIMETHYLBENZENE	108-67-8		4.73427E-14	0
1,3-BUTADIENE	106-99-0		1.39293E-15	0
1,4-DIOXANE	123-91-1	0.14	2.03862E-15	1.45616E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.59262E-12	4.77787E-13
2-NITROPHENOL	88-75-5		2.52189E-14	0
ACENAPHTHENE	83-32-9		6.36558E-13	0
ACETALDEHYDE	75-07-0		2.85771E-13	0
ACETONE	67-64-1	2.8	1.44065E-13	5.14519E-14
ACETONITRILE	75-05-8		6.6349E-14	0
ACROLEIN	107-02-8		2.11456E-14	0
ACRYLONITRILE	107-13-1		5.34698E-13	0
ALUMINUM	7429-90-5	0.293	3.15384E-08	1.0764E-07
AMMONIA	7664-41-7		3.18988E-11	0
ANTHRACENE	120-12-7		2.93214E-12	0
ANTIMONY	7440-36-0	0.019	1.05339E-14	5.54417E-13
ARSENIC	7440-38-2	0.019	1.69479E-09	8.91996E-08
BARIUM	7440-39-3	1.5	7.2865E-10	4.85767E-10
BENZ(A)ANTHRACENE	56-55-3		5.66703E-09	0
BENZENE	71-43-2	4	8.3994E-13	2.09985E-13
BENZO(A)PYRENE	50-32-8	0.15	3.9029E-08	2.60193E-07
BENZO(B)FLUORANTHENE	205-99-2		1.16501E-09	0
BENZO(K)FLUORANTHENE	207-08-9		2.03932E-08	0
BENZYL CHLORIDE	100-44-7		0	0
BERYLLIUM	7440-41-7	0.19	7.12068E-10	3.74772E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.13745E-06	4.54978E-07
BUTYLBENZYLPHTHALATE	85-68-7		2.54001E-10	0

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Red Fox Dose (mg/kg/day)	Red Fox ESQ (unitless)
CADMIUM	7440-43-9	0.271	4.19537E-10	1.54811E-09
CARBON TETRACHLORIDE	56-23-5	4.5	1.97255E-16	4.38345E-17
CHLOROETHANE	75-00-3		5.99114E-16	0
CHLOROFORM	67-66-3	4.2	2.23424E-16	5.31961E-17
CHROMIUM	7440-47-3	768	1.18312E-06	1.54052E-09
CHRYSENE	218-01-9		3.11627E-09	0
COPPER	7440-50-8	4.3	3.06216E-07	7.1213E-08
CROTONALDEHYDE	123-73-9		2.93278E-14	0
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.88388E-14	0
CYANIDE	57-12-5	18.1	5.43532E-13	3.00294E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		8.07037E-09	0
DICHLORODIFLUOROMETHANE	75-71-8		1.00866E-16	0
DIETHYL PHTHALATE	84-66-2	696	1.19565E-13	1.71788E-16
DIMETHYL PHTHALATE	131-11-3	3500	3.70624E-13	1.05893E-16
DI-N-BUTYL PHTHALATE	84-74-2	83	1.01035E-10	1.21728E-12
DI-N-OCTYL PHTHALATE	117-84-0	9780	0.000498484	5.09698E-08
ETHYL ACRYLATE	140-88-5		5.52283E-17	0
ETHYLBENZENE	100-41-4		1.13905E-13	0
FLUORANTHENE	206-44-0		1.31826E-10	0
FORMALDEHYDE	50-00-0	6.4	3.67324E-12	5.73944E-13
HEXACHLOROBENZENE	118-74-1		0	0
HEXANE, N-	110-54-3		1.23016E-16	0
HEXAVALENT CHROMIUM	18540-29-9	0.92	3.81087E-17	4.14225E-17
HYDROGEN CHLORIDE	7647-01-0		1.5126E-22	0
HYDROGEN CYANIDE	74-90-8		6.8494E-12	0
HYDROGEN FLOURIDE	7664-39-3		1.15984E-13	0
INDENO(1,2,3-CD)PYRENE	193-39-5		1.28061E-07	0
LEAD	7439-92-1	2.24	2.57455E-05	1.14935E-05
MANGANESE	7439-96-5	25	6.24652E-11	2.49861E-12

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	CAS	Mammal TRV (mg/kg/day)	Red Fox Dose (mg/kg/day)	Red Fox ESQ (unitless)
MERCURIC CHLORIDE	7487-94-7		0	0
MERCURY	7439-97-6		0	0
METHYL BROMIDE	74-83-9		0	0
METHYL CHLORIDE	74-87-3		1.72458E-15	0
METHYL ETHYL KETONE	78-93-3	497	3.81962E-14	7.68536E-17
METHYL ISOBUTYL KETONE	108-10-1	7	7.28816E-15	1.04117E-15
METHYL MERCURY	22967-92-6		0	0
METHYLENE CHLORIDE	75-09-2	1.6	1.06428E-13	6.65175E-14
METHYLNAPHTHALENE, 2-	91-57-6		7.10317E-13	0
MOLYBDENUM	7439-98-7	0.04	4.96796E-11	1.24199E-09
M-XYLENE	108-38-3		2.08643E-13	0
NAPHTHALENE	91-20-3	2.5	3.39619E-11	1.35848E-11
O-XYLENE	95-47-6		1.14616E-13	0
PHENANTHRENE	85-01-8		2.5712E-11	0
PHENOL	108-95-2		1.09117E-12	0
PHOSPHOROUS	7723-14-0		7.59612E-14	0
PROPIONALDEHYDE	123-38-6		2.95253E-14	0
P-XYLENE	106-42-3		2.16737E-13	0
PYRENE	129-00-0		3.07329E-10	0
PYRIDINE	110-86-1		3.47624E-14	0
SILVER	7440-22-4	14	3.0077E-11	2.14835E-12
STRONTIUM	7440-24-6	74	1.5083E-10	2.03824E-12
STYRENE	100-42-5		7.66124E-13	0
SULFURIC ACID	7664-93-9		0	0
TETRACHLOROETHYLENE	127-18-4		3.45607E-16	0
TETRAHYDROFURAN	109-99-9		2.25798E-15	0
THALLIUM	7440-28-0	0.002	0	0
TIN	7440-31-5	3.6	6.59984E-10	1.83329E-10
TOLUENE	108-88-3	3.9	1.14157E-12	2.9271E-13

Table 48 - Aquatic Mammal Receptor ESQs: Propellant 8,000 lbs. Scenario				
COPC	**CAS**	**Mammal TRV (mg/kg/day)**	**Red Fox Dose (mg/kg/day)**	**Red Fox ESQ (unitless)**
TRICHLOROETHYLENE	79-01-6	0.106	0	0
TRICHLOROFLUOROMETHANE	75-69-4		1.29017E-16	0
ZINC	7440-66-6	44.9	1.32756E-09	2.9567E-11
DIOXIN TEQ (1)				1.63E-06
CUMULATIVE ESQ				**1.42E-05**
(1): See Appendix B for dioxin calculations				

Table 49 - Terrestrial Community ESQs: Skid Burn Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00		0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00
ACENAPHTHENE	83-32-9		0.00E+00		0.00E+00
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00
ACETONITRILE	75-05-8		0.00E+00		0.00E+00
ACROLEIN	107-02-8		0.00E+00		0.00E+00
ACRYLONITRILE	107-13-1		0.00E+00		0.00E+00
ALUMINUM	7429-90-5	50	1.84E-23		0.00E+00
AMMONIA	7664-41-7		0.00E+00		0.00E+00
ANTHRACENE	120-12-7		0.00E+00		0.00E+00
ANTIMONY	7440-36-0	5	5.79E-10	0.78	3.71E-09
ARSENIC	7440-38-2	18	0.00E+00		0.00E+00
BARIUM	7440-39-3	500	3.69E-08	330	5.59E-08
BENZ(A)ANTHRACENE	56-55-3		0.00E+00		0.00E+00

Table 49 - Terrestrial Community ESQs: Skid Burn Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
BENZENE	71-43-2		0.00E+00		0.00E+00
BENZO(A)PYRENE	50-32-8		0.00E+00		0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00		0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10	5.35E-09	40	1.34E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00		0.00E+00
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00		0.00E+00
CADMIUM	7440-43-9	4	0.00E+00	0.2	0.00E+00
CARBON TETRACHLORIDE	56-23-5		0.00E+00		0.00E+00
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00		0.00E+00
CHROMIUM	7440-47-3	1	1.41E-05	0.4	3.53E-05
CHRYSENE	218-01-9		0.00E+00		0.00E+00
COPPER	7440-50-8	70	2.40E-07	50	3.36E-07
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00		0.00E+00
CYANIDE	57-12-5		0.00E+00		0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00

Table 49 - Terrestrial Community ESQs: Skid Burn Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
DIETHYL PHTHALATE	84-66-2		0.00E+00		0.00E+00
DIMETHYL PHTHALATE	131-11-3		0.00E+00	200	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00		0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00		0.00E+00
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00		0.00E+00
FLUORANTHENE	206-44-0		0.00E+00	47	0.00E+00
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00		0.00E+00
HEXANE, N-	110-54-3		0.00E+00		0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	1	0.00E+00	0.4	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00		0.00E+00
LEAD	7439-92-1	50	0.00E+00	500	0.00E+00
MANGANESE	7439-96-5	220	4.39E-20	450	2.15E-20
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00		0.00E+00

Table 49 - Terrestrial Community ESQs: Skid Burn Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00		0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00		0.00E+00
MOLYBDENUM	7439-98-7	2	1.05E-19		0.00E+00
M-XYLENE	108-38-3	10	0.00E+00		0.00E+00
NAPHTHALENE	91-20-3		0.00E+00		0.00E+00
O-XYLENE	95-47-6		0.00E+00		0.00E+00
PHENANTHRENE	85-01-8		0.00E+00	21	3.01E-07
PHENOL	108-95-2	70	0.00E+00	30	0.00E+00
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10	1.32E-19		0.00E+00
PYRENE	129-00-0		0.00E+00	13	9.01E-12
PYRIDINE	110-86-1		0.00E+00		0.00E+00
SILVER	7440-22-4	2	0.00E+00		0.00E+00
STRONTIUM	7440-24-6		0.00E+00		0.00E+00
STYRENE	100-42-5	300	0.00E+00		0.00E+00

Table 49 - Terrestrial Community ESQs: Skid Burn Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00
TETRACHLOROETHYLENE	127-18-4		0.00E+00		0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1	0.00E+00		0.00E+00
TIN	7440-31-5	50	0.00E+00		0.00E+00
TOLUENE	108-88-3	200	0.00E+00		0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00		0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00
ZINC	7440-66-6	50	1.66E-11	6.62	1.26E-10
DIOXIN TEQ (1)					
CUMULATIVE ESQ			**1.44E-05**		**3.60E-05**
(1): See Appendix B for dioxin calculations					

Table 50 - Terrestrial Community ESQs: Skid Burn 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00

Table 50 - Terrestrial Community ESQs: Skid Burn 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00		0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00
ACENAPHTHENE	83-32-9		0.00E+00		0.00E+00
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00
ACETONITRILE	75-05-8		0.00E+00		0.00E+00
ACROLEIN	107-02-8		0.00E+00		0.00E+00
ACRYLONITRILE	107-13-1		0.00E+00		0.00E+00
ALUMINUM	7429-90-5	50	6.69E-07		0.00E+00
AMMONIA	7664-41-7		0.00E+00		0.00E+00
ANTHRACENE	120-12-7		0.00E+00		0.00E+00
ANTIMONY	7440-36-0	5	0.00E+00	0.78	0.00E+00
ARSENIC	7440-38-2	18	9.66E-10		0.00E+00
BARIUM	7440-39-3	500	1.15E-11	330	1.75E-11
BENZ(A)ANTHRACENE	56-55-3		0.00E+00		0.00E+00
BENZENE	71-43-2		0.00E+00		0.00E+00

Table 50 - Terrestrial Community ESQs: Skid Burn 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
BENZO(A)PYRENE	50-32-8		0.00E+00		0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00		0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10	3.73E-08	40	9.32E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00		0.00E+00
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00		0.00E+00
CADMIUM	7440-43-9	4	2.66E-08	0.2	5.33E-07
CARBON TETRACHLORIDE	56-23-5		0.00E+00		0.00E+00
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00		0.00E+00
CHROMIUM	7440-47-3	1	1.56E-03	0.4	3.90E-03
CHRYSENE	218-01-9		0.00E+00		0.00E+00
COPPER	7440-50-8	70	1.37E-06	50	1.91E-06
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00		0.00E+00
CYANIDE	57-12-5		0.00E+00		0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00
DIETHYL PHTHALATE	84-66-2		0.00E+00		0.00E+00

Table 50 - Terrestrial Community ESQs: Skid Burn 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
DIMETHYL PHTHALATE	131-11-3		0.00E+00	200	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00		0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00		0.00E+00
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00		0.00E+00
FLUORANTHENE	206-44-0		0.00E+00	47	3.36E-08
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00		0.00E+00
HEXANE, N-	110-54-3		0.00E+00		0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	1	0.00E+00	0.4	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00		0.00E+00
LEAD	7439-92-1	50	1.63E-04	500	1.63E-05
MANGANESE	7439-96-5	220	9.16E-12	450	4.48E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00		0.00E+00
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00

Table 50 - Terrestrial Community ESQs: Skid Burn 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00		0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00		0.00E+00
MOLYBDENUM	7439-98-7	2	2.60E-08		0.00E+00
M-XYLENE	108-38-3	10	0.00E+00		0.00E+00
NAPHTHALENE	91-20-3		0.00E+00		0.00E+00
O-XYLENE	95-47-6		0.00E+00		0.00E+00
PHENANTHRENE	85-01-8		0.00E+00	21	0.00E+00
PHENOL	108-95-2	70	0.00E+00	30	0.00E+00
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10	0.00E+00		0.00E+00
PYRENE	129-00-0		0.00E+00	13	9.70E-07
PYRIDINE	110-86-1		0.00E+00		0.00E+00
SILVER	7440-22-4	2	1.17E-10		0.00E+00
STRONTIUM	7440-24-6		0.00E+00		0.00E+00
STYRENE	100-42-5	300	0.00E+00		0.00E+00
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00

Table 50 - Terrestrial Community ESQs: Skid Burn 183 Day Scenario					
COPC	**CAS**	**Plant TRV** (mg/kg soil)	**Terrestrial Plant ESQ** (unitless)	**Soil Invertebrates TRV** (mg/kg soil)	**Soil Invertebrates ESQ** (unitless)
TETRACHLOROETHYLENE	127-18-4		0.00E+00		0.00E+00
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1	0.00E+00		0.00E+00
TIN	7440-31-5	50	1.40E-08		0.00E+00
TOLUENE	108-88-3	200	0.00E+00		0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00		0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00
ZINC	7440-66-6	50	8.35E-09	6.62	6.30E-08
DIOXIN TEQ (1)					
CUMULATIVE ESQ			**1.72E-03**		**3.92E-03**
(1): See Appendix B for dioxin calculations					

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Northern Bobwhite Dose**	**Northern Bobwhite ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.15E-15	1.15E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		1.13E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.50E-16	0.00E+00
1,3-BUTADIENE	106-99-0		5.30E-17	0.00E+00
1,4-DIOXANE	123-91-1		2.48E-08	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.05E-14	1.05E-14
2-NITROPHENOL	88-75-5		1.19E-15	0.00E+00
ACENAPHTHENE	83-32-9		2.51E-16	0.00E+00
ACETALDEHYDE	75-07-0		9.18E-14	0.00E+00
ACETONE	67-64-1		3.51E-14	0.00E+00
ACETONITRILE	75-05-8		2.13E-14	0.00E+00
ACROLEIN	107-02-8		5.91E-15	0.00E+00
ACRYLONITRILE	107-13-1		7.35E-14	0.00E+00
ALUMINUM	7429-90-5	109.7	3.41E-08	3.11E-10
AMMONIA	7664-41-7		8.56E-12	0.00E+00
ANTHRACENE	120-12-7		2.45E-16	0.00E+00
ANTIMONY	7440-36-0		4.87E-15	0.00E+00
ARSENIC	7440-38-2	2.5	9.66E-08	3.86E-08
BARIUM	7440-39-3	20.8	2.95E-08	1.42E-09
BENZ(A)ANTHRACENE	56-55-3		1.21E-09	0.00E+00
BENZENE	71-43-2		6.67E-10	0.00E+00
BENZO(A)PYRENE	50-32-8		9.07E-09	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		2.59E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		8.21E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		1.48E-09	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Northern Bobwhite Dose**	**Northern Bobwhite ESQ**
		mg/kg/day	mg/kg/day	Unitless
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	6.09E-08	5.54E-08
BUTYLBENZYLPHTHALATE	85-68-7		7.04E-10	0.00E+00
CADMIUM	7440-43-9	1.45	9.21E-09	6.35E-09
CARBON TETRACHLORIDE	56-23-5		7.67E-18	0.00E+00
CHLOROETHANE	75-00-3		4.23E-17	0.00E+00
CHLOROFORM	67-66-3		1.15E-17	0.00E+00
CHROMIUM	7440-47-3	1	6.49E-09	6.49E-09
CHRYSENE	218-01-9		3.16E-09	0.00E+00
COPPER	7440-50-8	47	1.43E-05	3.05E-07
CROTONALDEHYDE	123-73-9		6.02E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		5.93E-17	0.00E+00
CYANIDE	57-12-5		1.91E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		2.14E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		3.93E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		2.63E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		2.63E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		8.17E-10	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		2.00E-08	0.00E+00
ETHYL ACRYLATE	140-88-5		4.19E-18	0.00E+00
ETHYLBENZENE	100-41-4		4.85E-16	0.00E+00
FLUORANTHENE	206-44-0		4.67E-11	0.00E+00
FORMALDEHYDE	50-00-0		1.09E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		1.60E-11	0.00E+00
HEXANE, N-	110-54-3		7.17E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		1.53E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		5.30E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		2.18E-12	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Northern Bobwhite Dose**	**Northern Bobwhite ESQ**
		mg/kg/day	mg/kg/day	Unitless
HYDROGEN FLOURIDE	7664-39-3		3.11E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.66E-07	0.00E+00
LEAD	7439-92-1	1.13	4.73E-05	4.19E-05
MANGANESE	7439-96-5	997	1.59E-09	1.60E-12
MERCURIC CHLORIDE	7487-94-7		1.28E-09	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.77E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		7.35E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		8.01E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		7.52E-15	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		2.05E-13	0.00E+00
MOLYBDENUM	7439-98-7	3.5	3.97E-09	1.13E-09
M-XYLENE	108-38-3		1.05E-15	0.00E+00
NAPHTHALENE	91-20-3		5.07E-14	0.00E+00
O-XYLENE	95-47-6		1.02E-12	0.00E+00
PHENANTHRENE	85-01-8		1.91E-15	0.00E+00
PHENOL	108-95-2		1.09E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.92E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		6.11E-15	0.00E+00
P-XYLENE	106-42-3		1.09E-15	0.00E+00
PYRENE	129-00-0		8.87E-11	0.00E+00
PYRIDINE	110-86-1		8.66E-16	0.00E+00
SILVER	7440-22-4	4.2	5.88E-09	1.40E-09
STRONTIUM	7440-24-6		7.05E-09	0.00E+00
STYRENE	100-42-5		3.26E-15	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Northern Bobwhite Dose**	**Northern Bobwhite ESQ**
		mg/kg/day	mg/kg/day	Unitless
SULFURIC ACID	7664-93-9		1.13E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		6.62E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		5.03E-16	0.00E+00
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	4.26E-09	6.27E-10
TOLUENE	108-88-3		9.17E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		5.02E-18	0.00E+00
ZINC	7440-66-6	14.5	3.52E-08	2.43E-09
DIOXIN TEQ (1)				7.56E-10
CUMULATIVE ESQ				**4.23E-05**
(1): See Appendix B for dioxin calculations				

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**American Robin Dose**	**American Robin ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		7.31E-15	7.31E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		7.21E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.61E-16	0.00E+00
1,3-BUTADIENE	106-99-0		5.75E-17	0.00E+00
1,4-DIOXANE	123-91-1		1.61E-07	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		6.67E-14	6.67E-14
2-NITROPHENOL	88-75-5		1.28E-15	0.00E+00
ACENAPHTHENE	83-32-9		2.70E-16	0.00E+00
ACETALDEHYDE	75-07-0		9.89E-14	0.00E+00
ACETONE	67-64-1		3.78E-14	0.00E+00
ACETONITRILE	75-05-8		2.30E-14	0.00E+00
ACROLEIN	107-02-8		6.37E-15	0.00E+00
ACRYLONITRILE	107-13-1		7.92E-14	0.00E+00
ALUMINUM	7429-90-5	109.7	2.17E-07	1.98E-09
AMMONIA	7664-41-7		9.21E-12	0.00E+00
ANTHRACENE	120-12-7		2.64E-16	0.00E+00
ANTIMONY	7440-36-0		5.68E-13	0.00E+00
ARSENIC	7440-38-2	2.5	6.16E-07	2.46E-07
BARIUM	7440-39-3	20.8	1.88E-07	9.05E-09
BENZ(A)ANTHRACENE	56-55-3		7.75E-09	0.00E+00
BENZENE	71-43-2		2.17E-08	0.00E+00
BENZO(A)PYRENE	50-32-8		7.32E-08	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		1.65E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.24E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		9.46E-09	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	3.88E-07	3.53E-07
BUTYLBENZYLPHTHALATE	85-68-7		4.49E-09	0.00E+00
CADMIUM	7440-43-9	1.45	5.87E-08	4.05E-08
CARBON TETRACHLORIDE	56-23-5		8.26E-18	0.00E+00
CHLOROETHANE	75-00-3		4.56E-17	0.00E+00
CHLOROFORM	67-66-3		1.24E-17	0.00E+00
CHROMIUM	7440-47-3	1	4.21E-08	4.21E-08
CHRYSENE	218-01-9		2.02E-08	0.00E+00
COPPER	7440-50-8	47	9.14E-05	1.95E-06
CROTONALDEHYDE	123-73-9		6.53E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		6.39E-17	0.00E+00
CYANIDE	57-12-5		2.63E-08	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.36E-07	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		4.23E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		2.83E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		2.84E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		4.53E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.28E-07	0.00E+00
ETHYL ACRYLATE	140-88-5		4.53E-18	0.00E+00
ETHYLBENZENE	100-41-4		5.23E-16	0.00E+00
FLUORANTHENE	206-44-0		2.98E-10	0.00E+00
FORMALDEHYDE	50-00-0		1.17E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		1.87E-04	0.00E+00
HEXANE, N-	110-54-3		4.56E-15	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		1.64E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		5.71E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		2.35E-12	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**American Robin Dose**	**American Robin ESQ**
		mg/kg/day	mg/kg/day	Unitless
HYDROGEN FLOURIDE	7664-39-3		3.35E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.06E-06	0.00E+00
LEAD	7439-92-1	1.13	3.02E-04	2.67E-04
MANGANESE	7439-96-5	997	1.02E-08	1.02E-11
MERCURIC CHLORIDE	7487-94-7		1.86E-07	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.91E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		7.91E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		8.63E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		8.10E-15	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.31E-12	0.00E+00
MOLYBDENUM	7439-98-7	3.5	2.53E-08	7.23E-09
M-XYLENE	108-38-3		1.13E-15	0.00E+00
NAPHTHALENE	91-20-3		9.96E-14	0.00E+00
O-XYLENE	95-47-6		6.33E-09	0.00E+00
PHENANTHRENE	85-01-8		2.06E-15	0.00E+00
PHENOL	108-95-2		1.17E-14	0.00E+00
PHOSPHOROUS	7723-14-0		9.92E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		6.58E-15	0.00E+00
P-XYLENE	106-42-3		1.17E-15	0.00E+00
PYRENE	129-00-0		5.66E-10	0.00E+00
PYRIDINE	110-86-1		9.32E-16	0.00E+00
SILVER	7440-22-4	4.2	3.75E-08	8.93E-09
STRONTIUM	7440-24-6		4.50E-08	0.00E+00
STYRENE	100-42-5		3.51E-15	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**American Robin Dose**	**American Robin ESQ**
		mg/kg/day	mg/kg/day	Unitless
SULFURIC ACID	7664-93-9		1.21E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		7.13E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		5.42E-16	0.00E+00
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	2.72E-08	4.00E-09
TOLUENE	108-88-3		9.88E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		5.41E-18	0.00E+00
ZINC	7440-66-6	14.5	2.25E-07	1.55E-08
DIOXIN TEQ (1)				4.82E-09
CUMULATIVE ESQ				**2.70E-04**
(1): See Appendix B for dioxin calculations				

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**American Woodcock Dose**	**American Woodcock ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		9.31E-21	9.31E-22
1,2,4-TRIMETHYLBENZENE	95-63-6		1.05E-21	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.15E-16	0.00E+00
1,3-BUTADIENE	106-99-0		4.07E-17	0.00E+00
1,4-DIOXANE	123-91-1		4.31E-07	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		9.00E-20	9.00E-20
2-NITROPHENOL	88-75-5		7.05E-12	0.00E+00
ACENAPHTHENE	83-32-9		1.93E-16	0.00E+00
ACETALDEHYDE	75-07-0		7.06E-14	0.00E+00
ACETONE	67-64-1		2.70E-14	0.00E+00
ACETONITRILE	75-05-8		1.64E-14	0.00E+00
ACROLEIN	107-02-8		4.55E-15	0.00E+00
ACRYLONITRILE	107-13-1		5.66E-14	0.00E+00
ALUMINUM	7429-90-5	109.7	1.28E-13	1.16E-15
AMMONIA	7664-41-7		6.58E-12	0.00E+00
ANTHRACENE	120-12-7		6.99E-11	0.00E+00
ANTIMONY	7440-36-0		2.36E-11	0.00E+00
ARSENIC	7440-38-2	2.5	3.45E-13	1.38E-13
BARIUM	7440-39-3	20.8	1.48E-07	7.12E-09
BENZ(A)ANTHRACENE	56-55-3		9.02E-09	0.00E+00
BENZENE	71-43-2		2.97E-07	0.00E+00
BENZO(A)PYRENE	50-32-8		5.26E-07	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		7.25E-16	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.51E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		1.51E-09	0.00E+00
BERYLLIUM	7440-41-7		4.37E-10	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**American Woodcock Dose**	**American Woodcock ESQ**
		mg/kg/day	mg/kg/day	Unitless
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	4.58E-13	4.16E-13
BUTYLBENZYLPHTHALATE	85-68-7		7.05E-15	0.00E+00
CADMIUM	7440-43-9	1.45	3.32E-14	2.29E-14
CARBON TETRACHLORIDE	56-23-5		5.90E-18	0.00E+00
CHLOROETHANE	75-00-3		6.27E-06	0.00E+00
CHLOROFORM	67-66-3		8.86E-18	0.00E+00
CHROMIUM	7440-47-3	1	1.14E-07	1.14E-07
CHRYSENE	218-01-9		3.40E-15	0.00E+00
COPPER	7440-50-8	47	1.36E-07	2.89E-09
CROTONALDEHYDE	123-73-9		4.91E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		5.12E-09	0.00E+00
CYANIDE	57-12-5		1.91E-07	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		2.03E-15	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		3.02E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		2.02E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		2.03E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		7.79E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.69E-13	0.00E+00
ETHYL ACRYLATE	140-88-5		3.23E-18	0.00E+00
ETHYLBENZENE	100-41-4		6.34E-09	0.00E+00
FLUORANTHENE	206-44-0		1.04E-15	0.00E+00
FORMALDEHYDE	50-00-0		8.38E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		1.33E-04	0.00E+00
HEXANE, N-	110-54-3		3.85E-07	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		1.17E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		4.08E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		2.11E-10	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
HYDROGEN FLOURIDE	7664-39-3		2.39E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.09E-14	0.00E+00
LEAD	7439-92-1	1.13	1.72E-10	1.52E-10
MANGANESE	7439-96-5	997	5.71E-15	5.73E-18
MERCURIC CHLORIDE	7487-94-7		3.29E-05	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.36E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		5.65E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		6.16E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		5.78E-15	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		8.10E-12	0.00E+00
MOLYBDENUM	7439-98-7	3.5	1.46E-14	4.18E-15
M-XYLENE	108-38-3		8.07E-16	0.00E+00
NAPHTHALENE	91-20-3		6.98E-13	0.00E+00
O-XYLENE	95-47-6		6.14E-09	0.00E+00
PHENANTHRENE	85-01-8		5.07E-08	0.00E+00
PHENOL	108-95-2		8.38E-15	0.00E+00
PHOSPHOROUS	7723-14-0		2.37E-10	0.00E+00
PROPIONALDEHYDE	123-38-6		7.83E-10	0.00E+00
P-XYLENE	106-42-3		8.38E-16	0.00E+00
PYRENE	129-00-0		9.40E-13	0.00E+00
PYRIDINE	110-86-1		6.66E-16	0.00E+00
SILVER	7440-22-4	4.2	2.10E-14	5.01E-15
STRONTIUM	7440-24-6		2.81E-09	0.00E+00
STYRENE	100-42-5		2.51E-15	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**American Woodcock Dose**	**American Woodcock ESQ**
		mg/kg/day	mg/kg/day	Unitless
SULFURIC ACID	7664-93-9		8.66E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		5.09E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		3.87E-16	0.00E+00
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	1.58E-14	2.32E-15
TOLUENE	108-88-3		7.05E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		3.87E-18	0.00E+00
ZINC	7440-66-6	14.5	7.20E-12	4.96E-13
DIOXIN TEQ (1)				6.49E-15
CUMULATIVE ESQ				**1.24E-07**
(1): See Appendix B for dioxin calculations				

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.50E-20	5.50E-21
1,2,4-TRIMETHYLBENZENE	95-63-6		6.22E-21	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		6.80E-16	0.00E+00
1,3-BUTADIENE	106-99-0		2.40E-16	0.00E+00
1,4-DIOXANE	123-91-1		6.93E-12	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		3.63E-17	3.63E-17
2-NITROPHENOL	88-75-5		5.40E-15	0.00E+00
ACENAPHTHENE	83-32-9		1.14E-15	0.00E+00
ACETALDEHYDE	75-07-0		4.17E-13	0.00E+00
ACETONE	67-64-1		1.59E-13	0.00E+00
ACETONITRILE	75-05-8		9.68E-14	0.00E+00
ACROLEIN	107-02-8		2.68E-14	0.00E+00
ACRYLONITRILE	107-13-1		3.34E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	7.53E-13	6.86E-15
AMMONIA	7664-41-7		3.88E-11	0.00E+00
ANTHRACENE	120-12-7		1.11E-15	0.00E+00
ANTIMONY	7440-36-0		1.67E-15	0.00E+00
ARSENIC	7440-38-2	2.5	2.04E-12	8.16E-13
BARIUM	7440-39-3	20.8	1.82E-12	8.73E-14
BENZ(A)ANTHRACENE	56-55-3		9.94E-13	0.00E+00
BENZENE	71-43-2		5.18E-11	0.00E+00
BENZO(A)PYRENE	50-32-8		5.04E-10	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		4.28E-15	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.88E-13	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		7.00E-14	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	3.70E-12	3.36E-12
BUTYLBENZYLPHTHALATE	85-68-7		4.16E-14	0.00E+00
CADMIUM	7440-43-9	1.45	2.02E-13	1.39E-13
CARBON TETRACHLORIDE	56-23-5		3.48E-17	0.00E+00
CHLOROETHANE	75-00-3		1.92E-16	0.00E+00
CHLOROFORM	67-66-3		5.22E-17	0.00E+00
CHROMIUM	7440-47-3	1	3.72E-12	3.72E-12
CHRYSENE	218-01-9		2.01E-14	0.00E+00
COPPER	7440-50-8	47	3.10E-10	6.61E-12
CROTONALDEHYDE	123-73-9		2.73E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.69E-16	0.00E+00
CYANIDE	57-12-5		7.89E-11	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.20E-14	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.78E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.19E-14	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.20E-14	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		2.15E-10	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		2.04E-12	0.00E+00
ETHYL ACRYLATE	140-88-5		1.90E-17	0.00E+00
ETHYLBENZENE	100-41-4		2.20E-15	0.00E+00
FLUORANTHENE	206-44-0		6.13E-15	0.00E+00
FORMALDEHYDE	50-00-0		4.94E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		4.44E-06	0.00E+00
HEXANE, N-	110-54-3		7.70E-18	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		6.92E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.41E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		9.88E-12	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
HYDROGEN FLOURIDE	7664-39-3		1.41E-13	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.82E-13	0.00E+00
LEAD	7439-92-1	1.13	1.02E-09	8.99E-10
MANGANESE	7439-96-5	997	3.37E-14	3.38E-17
MERCURIC CHLORIDE	7487-94-7		5.29E-10	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		8.05E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		3.33E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		3.64E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		3.41E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		2.45E-15	0.00E+00
MOLYBDENUM	7439-98-7	3.5	8.64E-14	2.47E-14
M-XYLENE	108-38-3		4.76E-15	0.00E+00
NAPHTHALENE	91-20-3		1.92E-13	0.00E+00
O-XYLENE	95-47-6		1.88E-11	0.00E+00
PHENANTHRENE	85-01-8		8.66E-15	0.00E+00
PHENOL	108-95-2		4.94E-14	0.00E+00
PHOSPHOROUS	7723-14-0		1.98E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		2.77E-14	0.00E+00
P-XYLENE	106-42-3		4.95E-15	0.00E+00
PYRENE	129-00-0		1.26E-14	0.00E+00
PYRIDINE	110-86-1		3.93E-15	0.00E+00
SILVER	7440-22-4	4.2	1.24E-13	2.96E-14
STRONTIUM	7440-24-6		1.51E-13	0.00E+00
STYRENE	100-42-5		1.48E-14	0.00E+00

Table 51 - Terrestrial Avian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
SULFURIC ACID	7664-93-9		5.11E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		3.00E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		2.28E-15	0.00E+00
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	9.30E-14	1.37E-14
TOLUENE	108-88-3		4.16E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.28E-17	0.00E+00
ZINC	7440-66-6	14.5	7.54E-13	5.20E-14
DIOXIN TEQ (1)				2.59E-12
CUMULATIVE ESQ				**9.17E-10**
(1): See Appendix B for dioxin calculations				

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		4.68E-15	1.40E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		4.62E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.42E-16	0.00E+00
1,3-BUTADIENE	106-99-0		8.59E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.40E-07	9.99E-07
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		4.27E-14	1.28E-14
2-NITROPHENOL	88-75-5		6.35E-13	0.00E+00
ACENAPHTHENE	83-32-9		4.05E-16	0.00E+00
ACETALDEHYDE	75-07-0		1.48E-13	0.00E+00
ACETONE	67-64-1	2.8	5.68E-14	2.03E-14
ACETONITRILE	75-05-8		3.44E-14	0.00E+00
ACROLEIN	107-02-8		9.55E-15	0.00E+00
ACRYLONITRILE	107-13-1		1.19E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	1.39E-07	4.75E-07
AMMONIA	7664-41-7		1.38E-11	0.00E+00
ANTHRACENE	120-12-7		6.29E-12	0.00E+00
ANTIMONY	7440-36-0	0.019	2.11E-12	1.11E-10
ARSENIC	7440-38-2	0.019	3.94E-07	2.07E-05
BARIUM	7440-39-3	1.5	1.34E-07	8.90E-08
BENZ(A)ANTHRACENE	56-55-3		5.75E-09	0.00E+00
BENZENE	71-43-2	4	2.83E-08	7.08E-09
BENZO(A)PYRENE	50-32-8	0.15	8.33E-08	5.56E-07
BENZO(B)FLUORANTHENE	205-99-2		1.06E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.36E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		1.36E-10	0.00E+00
BERYLLIUM	7440-41-7	0.19	6.08E-09	3.20E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	2.48E-07	9.94E-08

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		2.87E-09	0.00E+00
CADMIUM	7440-43-9	0.271	3.76E-08	1.39E-07
CARBON TETRACHLORIDE	56-23-5	4.5	1.24E-17	2.75E-18
CHLOROETHANE	75-00-3		5.64E-07	0.00E+00
CHLOROFORM	67-66-3	4.2	1.86E-17	4.43E-18
CHROMIUM	7440-47-3	768	3.66E-08	4.77E-11
CHRYSENE	218-01-9		1.29E-08	0.00E+00
COPPER	7440-50-8	4.3	5.85E-05	1.36E-05
CROTONALDEHYDE	123-73-9		9.77E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		4.61E-10	0.00E+00
CYANIDE	57-12-5	18.1	1.55E-08	8.58E-10
DIBENZ(A,H)ANTHRACENE	53-70-3		8.72E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		6.35E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	4.24E-15	6.10E-18
DIMETHYL PHTHALATE	131-11-3	3500	4.26E-15	1.22E-18
DI-N-BUTYL PHTHALATE	84-74-2	83	7.79E-09	9.39E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	8.18E-08	8.36E-12
ETHYL ACRYLATE	140-88-5		6.78E-18	0.00E+00
ETHYLBENZENE	100-41-4		5.70E-10	0.00E+00
FLUORANTHENE	206-44-0		1.91E-10	0.00E+00
FORMALDEHYDE	50-00-0	6.4	1.76E-12	2.75E-13
HEXACHLOROBENZENE	118-74-1		5.39E-08	0.00E+00
HEXANE, N-	110-54-3		3.46E-08	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	2.46E-19	2.68E-19
HYDROGEN CHLORIDE	7647-01-0		8.57E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		2.23E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		5.03E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		6.78E-07	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Mammal TRV**	**Meadow Vole Dose**	**Meadow Vole ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	1.93E-04	8.62E-05
MANGANESE	7439-96-5	25	6.50E-09	2.60E-10
MERCURIC CHLORIDE	7487-94-7		2.95E-06	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		2.86E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	1.19E-14	2.39E-17
METHYL ISOBUTYL KETONE	108-10-1	7	1.29E-15	1.85E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.21E-14	7.59E-15
METHYLNAPHTHALENE, 2-	91-57-6		1.56E-12	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.62E-08	4.05E-07
M-XYLENE	108-38-3		1.69E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.63E-13	6.50E-14
O-XYLENE	95-47-6		1.55E-10	0.00E+00
PHENANTHRENE	85-01-8		4.56E-09	0.00E+00
PHENOL	108-95-2		1.76E-14	0.00E+00
PHOSPHOROUS	7723-14-0		2.13E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		7.04E-11	0.00E+00
P-XYLENE	106-42-3		1.76E-15	0.00E+00
PYRENE	129-00-0		3.62E-10	0.00E+00
PYRIDINE	110-86-1		1.40E-15	0.00E+00
SILVER	7440-22-4	14	2.40E-08	1.71E-09
STRONTIUM	7440-24-6	74	2.90E-08	3.92E-10
STYRENE	100-42-5		5.27E-15	0.00E+00
SULFURIC ACID	7664-93-9		1.82E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.07E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		8.12E-16	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Mammal TRV**	**Meadow Vole Dose**	**Meadow Vole ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	1.74E-08	4.83E-09
TOLUENE	108-88-3	3.9	1.48E-14	3.80E-15
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		8.12E-18	0.00E+00
ZINC	7440-66-6	44.9	1.44E-07	3.20E-09
DIOXIN TEQ (1)				4.32E-08
CUMULATIVE ESQ				**1.23E-04**
(1): See Appendix B for dioxin calculations				

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		3.01E-13	9.04E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		2.97E-14	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		9.57E-17	0.00E+00
1,3-BUTADIENE	106-99-0		5.52E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	3.38E-05	2.41E-04
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.75E-12	8.25E-13
2-NITROPHENOL	88-75-5		4.47E-10	0.00E+00
ACENAPHTHENE	83-32-9		1.60E-16	0.00E+00
ACETALDEHYDE	75-07-0		5.86E-14	0.00E+00
ACETONE	67-64-1	2.8	2.24E-14	8.01E-15
ACETONITRILE	75-05-8		1.36E-14	0.00E+00
ACROLEIN	107-02-8		3.77E-15	0.00E+00
ACRYLONITRILE	107-13-1		4.69E-14	0.00E+00
ALUMINUM	7429-90-5	0.293	8.96E-06	3.06E-05
AMMONIA	7664-41-7		5.47E-12	0.00E+00
ANTHRACENE	120-12-7		4.43E-09	0.00E+00
ANTIMONY	7440-36-0	0.019	1.49E-09	7.82E-08
ARSENIC	7440-38-2	0.019	2.54E-05	1.34E-03
BARIUM	7440-39-3	1.5	1.71E-05	1.14E-05
BENZ(A)ANTHRACENE	56-55-3		8.89E-07	0.00E+00
BENZENE	71-43-2	4	1.87E-05	4.67E-06
BENZO(A)PYRENE	50-32-8	0.15	3.55E-05	2.36E-04
BENZO(B)FLUORANTHENE	205-99-2		6.81E-07	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		2.25E-06	0.00E+00
BENZYL CHLORIDE	100-44-7		9.58E-08	0.00E+00
BERYLLIUM	7440-41-7	0.19	4.17E-07	2.19E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.60E-05	6.40E-06

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		1.85E-07	0.00E+00
CADMIUM	7440-43-9	0.271	2.42E-06	8.94E-06
CARBON TETRACHLORIDE	56-23-5	4.5	4.90E-18	1.09E-18
CHLOROETHANE	75-00-3		3.97E-04	0.00E+00
CHLOROFORM	67-66-3	4.2	7.35E-18	1.75E-18
CHROMIUM	7440-47-3	768	8.89E-06	1.16E-08
CHRYSENE	218-01-9		8.32E-07	0.00E+00
COPPER	7440-50-8	4.3	3.78E-03	8.79E-04
CROTONALDEHYDE	123-73-9		2.39E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		3.25E-07	0.00E+00
CYANIDE	57-12-5	18.1	1.16E-05	6.42E-07
DIBENZ(A,H)ANTHRACENE	53-70-3		5.62E-06	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.51E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.68E-15	2.41E-18
DIMETHYL PHTHALATE	131-11-3	3500	1.68E-15	4.81E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	4.39E-06	5.29E-08
DI-N-OCTYL PHTHALATE	117-84-0	9780	5.27E-06	5.39E-10
ETHYL ACRYLATE	140-88-5		3.71E-18	0.00E+00
ETHYLBENZENE	100-41-4		4.02E-07	0.00E+00
FLUORANTHENE	206-44-0		1.23E-08	0.00E+00
FORMALDEHYDE	50-00-0	6.4	6.95E-13	1.09E-13
HEXACHLOROBENZENE	118-74-1		4.86E-03	0.00E+00
HEXANE, N-	110-54-3		2.44E-05	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	9.74E-20	1.06E-19
HYDROGEN CHLORIDE	7647-01-0		3.39E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.32E-08	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.21E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		4.37E-05	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	1.24E-02	5.55E-03
MANGANESE	7439-96-5	25	4.19E-07	1.67E-08
MERCURIC CHLORIDE	7487-94-7		2.08E-03	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.13E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	4.69E-15	9.44E-18
METHYL ISOBUTYL KETONE	108-10-1	7	5.12E-16	7.31E-17
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	4.80E-15	3.00E-15
METHYLNAPHTHALENE, 2-	91-57-6		5.67E-10	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.04E-06	2.61E-05
M-XYLENE	108-38-3		6.70E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	4.44E-11	1.78E-11
O-XYLENE	95-47-6		2.69E-07	0.00E+00
PHENANTHRENE	85-01-8		3.21E-06	0.00E+00
PHENOL	108-95-2		6.95E-15	0.00E+00
PHOSPHOROUS	7723-14-0		1.50E-08	0.00E+00
PROPIONALDEHYDE	123-38-6		4.96E-08	0.00E+00
P-XYLENE	106-42-3		6.97E-16	0.00E+00
PYRENE	129-00-0		2.34E-08	0.00E+00
PYRIDINE	110-86-1		5.53E-16	0.00E+00
SILVER	7440-22-4	14	1.55E-06	1.10E-07
STRONTIUM	7440-24-6	74	2.03E-06	2.75E-08
STYRENE	100-42-5		2.08E-15	0.00E+00
SULFURIC ACID	7664-93-9		7.19E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.23E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		3.21E-16	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Mammal TRV**	**Raccoon Dose**	**Raccoon ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	1.12E-06	3.11E-07
TOLUENE	108-88-3	3.9	5.85E-15	1.50E-15
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		3.21E-18	0.00E+00
ZINC	7440-66-6	44.9	9.26E-06	2.06E-07
DIOXIN TEQ (1)				2.78E-06
CUMULATIVE ESQ				**8.34E-03**
(1): See Appendix B for dioxin calculations				

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.50E-16	1.65E-17
1,2,4-TRIMETHYLBENZENE	95-63-6		5.42E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.57E-16	0.00E+00
1,3-BUTADIENE	106-99-0		9.09E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	9.25E-08	6.61E-07
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		5.02E-15	1.51E-15
2-NITROPHENOL	88-75-5		1.31E-12	0.00E+00
ACENAPHTHENE	83-32-9		4.30E-16	0.00E+00
ACETALDEHYDE	75-07-0		1.58E-13	0.00E+00
ACETONE	67-64-1	2.8	6.03E-14	2.15E-14
ACETONITRILE	75-05-8		3.66E-14	0.00E+00
ACROLEIN	107-02-8		1.01E-14	0.00E+00
ACRYLONITRILE	107-13-1		1.26E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	1.63E-08	5.58E-08
AMMONIA	7664-41-7		1.47E-11	0.00E+00
ANTHRACENE	120-12-7		1.30E-11	0.00E+00
ANTIMONY	7440-36-0	0.019	4.53E-12	2.38E-10
ARSENIC	7440-38-2	0.019	4.63E-08	2.44E-06
BARIUM	7440-39-3	1.5	4.18E-08	2.78E-08
BENZ(A)ANTHRACENE	56-55-3		2.27E-09	0.00E+00
BENZENE	71-43-2	4	6.02E-08	1.51E-08
BENZO(A)PYRENE	50-32-8	0.15	1.06E-07	7.09E-07
BENZO(B)FLUORANTHENE	205-99-2		1.24E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		4.22E-09	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BENZYL CHLORIDE	100-44-7		2.81E-10	0.00E+00
BERYLLIUM	7440-41-7	0.19	7.95E-10	4.18E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	2.92E-08	1.17E-08
BUTYLBENZYLPHTHALATE	85-68-7		3.38E-10	0.00E+00
CADMIUM	7440-43-9	0.271	4.42E-09	1.63E-08
CARBON TETRACHLORIDE	56-23-5	4.5	1.32E-17	2.92E-18
CHLOROETHANE	75-00-3		1.16E-06	0.00E+00
CHLOROFORM	67-66-3	4.2	1.97E-17	4.70E-18
CHROMIUM	7440-47-3	768	2.44E-08	3.18E-11
CHRYSENE	218-01-9		1.52E-09	0.00E+00
COPPER	7440-50-8	4.3	6.90E-06	1.60E-06
CROTONALDEHYDE	123-73-9		1.04E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		9.52E-10	0.00E+00
CYANIDE	57-12-5	18.1	4.26E-08	2.36E-09
DIBENZ(A,H)ANTHRACENE	53-70-3		1.02E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		6.74E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	4.51E-15	6.48E-18
DIMETHYL PHTHALATE	131-11-3	3500	4.52E-15	1.29E-18
DI-N-BUTYL PHTHALATE	84-74-2	83	2.57E-08	3.10E-10
DI-N-OCTYL PHTHALATE	117-84-0	9780	9.61E-09	9.83E-13
ETHYL ACRYLATE	140-88-5		7.19E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.18E-09	0.00E+00
FLUORANTHENE	206-44-0		2.24E-11	0.00E+00
FORMALDEHYDE	50-00-0	6.4	1.87E-12	2.92E-13
HEXACHLOROBENZENE	118-74-1		7.52E-05	0.00E+00
HEXANE, N-	110-54-3		7.15E-08	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
HEXAVALENT CHROMIUM	18540-29-9	0.92	2.62E-19	2.84E-19
HYDROGEN CHLORIDE	7647-01-0		9.10E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		4.26E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		5.34E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		7.97E-08	0.00E+00
LEAD	7439-92-1	2.24	2.27E-05	1.01E-05
MANGANESE	7439-96-5	25	7.64E-10	3.05E-11
MERCURIC CHLORIDE	7487-94-7		6.15E-06	0.00E+00
MERCURY	7439-97-6		#######	0.00E+00
METHYL BROMIDE	74-83-9		#######	0.00E+00
METHYL CHLORIDE	74-87-3		3.04E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	1.26E-14	2.54E-17
METHYL ISOBUTYL KETONE	108-10-1	7	1.37E-15	1.96E-16
METHYL MERCURY	22967-92-6		#######	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.29E-14	8.06E-15
METHYLNAPHTHALENE, 2-	91-57-6		1.60E-12	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.90E-09	4.76E-08
M-XYLENE	108-38-3		1.80E-15	0.00E+00
NAPHTHALENE	91-20-3	2.5	2.00E-13	8.00E-14
O-XYLENE	95-47-6		2.85E-09	0.00E+00
PHENANTHRENE	85-01-8		9.42E-09	0.00E+00
PHENOL	108-95-2		1.87E-14	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Mammal TRV**	**Short Tailed Shrew Dose**	**Short Tailed Shrew ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
PHOSPHOROUS	7723-14-0		4.41E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		1.46E-10	0.00E+00
P-XYLENE	106-42-3		1.87E-15	0.00E+00
PYRENE	129-00-0		4.27E-11	0.00E+00
PYRIDINE	110-86-1		1.49E-15	0.00E+00
SILVER	7440-22-4	14	2.82E-09	2.01E-10
STRONTIUM	7440-24-6	74	3.90E-09	5.27E-11
STYRENE	100-42-5		5.60E-15	0.00E+00
SULFURIC ACID	7664-93-9		1.93E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.14E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		8.63E-16	0.00E+00
THALLIUM	7440-28-0	0.002	#######	0.00E+00
TIN	7440-31-5	3.6	2.04E-09	5.68E-10
TOLUENE	108-88-3	3.9	1.57E-14	4.03E-15
TRICHLOROETHYLENE	79-01-6	0.106	#######	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		8.62E-18	0.00E+00
ZINC	7440-66-6	44.9	1.69E-08	3.76E-10
DIOXIN TEQ (1)				5.07E-09
CUMULATIVE ESQ				**1.57E-05**
(1): See Appendix B for dioxin calculations				

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		8.01E-21	2.40E-22
1,2,4-TRIMETHYLBENZENE	95-63-6		9.07E-22	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		9.92E-17	0.00E+00
1,3-BUTADIENE	106-99-0		3.50E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	2.10E-08	1.50E-07
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		5.88E-18	1.76E-18
2-NITROPHENOL	88-75-5		3.46E-13	0.00E+00
ACENAPHTHENE	83-32-9		1.66E-16	0.00E+00
ACETALDEHYDE	75-07-0		6.07E-14	0.00E+00
ACETONE	67-64-1	2.8	2.32E-14	8.30E-15
ACETONITRILE	75-05-8		1.41E-14	0.00E+00
ACROLEIN	107-02-8		3.91E-15	0.00E+00
ACRYLONITRILE	107-13-1		4.86E-14	0.00E+00
ALUMINUM	7429-90-5	0.293	1.10E-13	3.75E-13
AMMONIA	7664-41-7		5.66E-12	0.00E+00
ANTHRACENE	120-12-7		3.42E-12	0.00E+00
ANTIMONY	7440-36-0	0.019	1.14E-12	5.99E-11
ARSENIC	7440-38-2	0.019	3.00E-13	1.58E-11
BARIUM	7440-39-3	1.5	7.24E-09	4.83E-09
BENZ(A)ANTHRACENE	56-55-3		4.42E-10	0.00E+00
BENZENE	71-43-2	4	1.40E-08	3.50E-09
BENZO(A)PYRENE	50-32-8	0.15	2.60E-08	1.73E-07
BENZO(B)FLUORANTHENE	205-99-2		6.23E-16	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		7.42E-11	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BENZYL CHLORIDE	100-44-7		7.40E-11	0.00E+00
BERYLLIUM	7440-41-7	0.19	2.10E-11	1.11E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.49E-12	5.97E-13
BUTYLBENZYLPHTHALATE	85-68-7		6.06E-15	0.00E+00
CADMIUM	7440-43-9	0.271	2.96E-14	1.09E-13
CARBON TETRACHLORIDE	56-23-5	4.5	5.07E-18	1.13E-18
CHLOROETHANE	75-00-3		3.07E-07	0.00E+00
CHLOROFORM	67-66-3	4.2	7.62E-18	1.81E-18
CHROMIUM	7440-47-3	768	5.54E-09	7.21E-12
CHRYSENE	218-01-9		2.92E-15	0.00E+00
COPPER	7440-50-8	4.3	6.64E-09	1.54E-09
CROTONALDEHYDE	123-73-9		3.99E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.51E-10	0.00E+00
CYANIDE	57-12-5	18.1	8.57E-09	4.73E-10
DIBENZ(A,H)ANTHRACENE	53-70-3		1.75E-15	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.60E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.74E-15	2.50E-18
DIMETHYL PHTHALATE	131-11-3	3500	1.74E-15	4.98E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	2.75E-09	3.31E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.30E-12	1.33E-16
ETHYL ACRYLATE	140-88-5		2.77E-18	0.00E+00
ETHYLBENZENE	100-41-4		3.10E-10	0.00E+00
FLUORANTHENE	206-44-0		8.93E-16	0.00E+00
FORMALDEHYDE	50-00-0	6.4	7.21E-13	1.13E-13
HEXACHLOROBENZENE	118-74-1		6.65E-06	0.00E+00
HEXANE, N-	110-54-3		1.88E-08	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.01E-19	1.10E-19
HYDROGEN CHLORIDE	7647-01-0		3.51E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.17E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.06E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.66E-14	0.00E+00
LEAD	7439-92-1	2.24	1.48E-10	6.62E-11
MANGANESE	7439-96-5	25	4.91E-15	1.96E-16
MERCURIC CHLORIDE	7487-94-7		1.60E-06	0.00E+00
MERCURY	7439-97-6		#######	0.00E+00
METHYL BROMIDE	74-83-9		#######	0.00E+00
METHYL CHLORIDE	74-87-3		1.17E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	4.86E-15	9.78E-18
METHYL ISOBUTYL KETONE	108-10-1	7	5.30E-16	7.57E-17
METHYL MERCURY	22967-92-6		#######	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	4.97E-15	3.11E-15
METHYLNAPHTHALENE, 2-	91-57-6		3.97E-13	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.26E-14	3.15E-13
M-XYLENE	108-38-3		6.94E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	6.05E-14	2.42E-14
O-XYLENE	95-47-6		1.10E-10	0.00E+00
PHENANTHRENE	85-01-8		2.48E-09	0.00E+00
PHENOL	108-95-2		7.20E-15	0.00E+00

Table 52 - Terrestrial Mammalian Receptor ESQs: Skid Burn Scenario				
COPC	**CAS**	**Mammal TRV**	**Red Fox Dose**	**Red Fox ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
PHOSPHOROUS	7723-14-0		1.16E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		3.83E-11	0.00E+00
P-XYLENE	106-42-3		7.21E-16	0.00E+00
PYRENE	129-00-0		4.77E-14	0.00E+00
PYRIDINE	110-86-1		5.73E-16	0.00E+00
SILVER	7440-22-4	14	1.84E-14	1.31E-15
STRONTIUM	7440-24-6	74	1.37E-10	1.86E-12
STYRENE	100-42-5		2.16E-15	0.00E+00
SULFURIC ACID	7664-93-9		7.45E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.38E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		3.33E-16	0.00E+00
THALLIUM	7440-28-0	0.002	#######	0.00E+00
TIN	7440-31-5	3.6	1.36E-14	3.76E-15
TOLUENE	108-88-3	3.9	6.07E-15	1.56E-15
TRICHLOROETHYLENE	79-01-6	0.106	#######	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		3.32E-18	0.00E+00
ZINC	7440-66-6	44.9	4.39E-13	9.77E-15
DIOXIN TEQ (1)				5.88E-12
CUMULATIVE ESQ				**3.34E-07**
(1): See Appendix B for dioxin calculations				

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.44E-16	1.44E-17
1,2,4-TRIMETHYLBENZENE	95-63-6		1.41E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		7.52E-17	0.00E+00
1,3-BUTADIENE	106-99-0		2.66E-17	0.00E+00
1,4-DIOXANE	123-91-1		3.09E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.30E-15	1.30E-15
2-NITROPHENOL	88-75-5		5.97E-16	0.00E+00
ACENAPHTHENE	83-32-9		1.26E-16	0.00E+00
ACETALDEHYDE	75-07-0		4.60E-14	0.00E+00
ACETONE	67-64-1		1.76E-14	0.00E+00
ACETONITRILE	75-05-8		1.07E-14	0.00E+00
ACROLEIN	107-02-8		2.96E-15	0.00E+00
ACRYLONITRILE	107-13-1		3.69E-14	0.00E+00
ALUMINUM	7429-90-5	109.7	4.24E-09	3.87E-11
AMMONIA	7664-41-7		4.29E-12	0.00E+00
ANTHRACENE	120-12-7		1.23E-16	0.00E+00
ANTIMONY	7440-36-0		8.99E-18	0.00E+00
ARSENIC	7440-38-2	2.5	1.20E-08	4.81E-09
BARIUM	7440-39-3	20.8	3.66E-09	1.76E-10
BENZ(A)ANTHRACENE	56-55-3		1.57E-10	0.00E+00
BENZENE	71-43-2		5.35E-15	0.00E+00
BENZO(A)PYRENE	50-32-8		1.13E-09	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		3.21E-10	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.03E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		1.84E-10	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	7.61E-09	6.92E-09

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		8.77E-11	0.00E+00
CADMIUM	7440-43-9	1.45	1.15E-09	7.91E-10
CARBON TETRACHLORIDE	56-23-5		3.84E-18	0.00E+00
CHLOROETHANE	75-00-3		2.12E-17	0.00E+00
CHLOROFORM	67-66-3		5.77E-18	0.00E+00
CHROMIUM	7440-47-3	1	1.33E-09	1.33E-09
CHRYSENE	218-01-9		3.96E-10	0.00E+00
COPPER	7440-50-8	47	1.79E-06	3.80E-08
CROTONALDEHYDE	123-73-9		3.02E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.97E-17	0.00E+00
CYANIDE	57-12-5		9.55E-14	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		2.65E-09	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.97E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.32E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.32E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.02E-10	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		2.50E-09	0.00E+00
ETHYL ACRYLATE	140-88-5		2.10E-18	0.00E+00
ETHYLBENZENE	100-41-4		2.43E-16	0.00E+00
FLUORANTHENE	206-44-0		5.81E-12	0.00E+00
FORMALDEHYDE	50-00-0		5.46E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		8.99E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		7.65E-20	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.66E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.09E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.56E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.06E-08	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	Northern Bobwhite Dose	Northern Bobwhite ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	5.89E-06	5.21E-06
MANGANESE	7439-96-5	997	1.98E-10	1.99E-13
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		8.89E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3		3.68E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		4.02E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		3.77E-15	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		2.57E-14	0.00E+00
MOLYBDENUM	7439-98-7	3.5	4.94E-10	1.41E-10
M-XYLENE	108-38-3		5.26E-16	0.00E+00
NAPHTHALENE	91-20-3		2.12E-14	0.00E+00
O-XYLENE	95-47-6		2.83E-16	0.00E+00
PHENANTHRENE	85-01-8		9.57E-16	0.00E+00
PHENOL	108-95-2		5.46E-15	0.00E+00
PHOSPHOROUS	7723-14-0		4.03E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		3.06E-15	0.00E+00
P-XYLENE	106-42-3		5.46E-16	0.00E+00
PYRENE	129-00-0		1.10E-11	0.00E+00
PYRIDINE	110-86-1		4.34E-16	0.00E+00
SILVER	7440-22-4	4.2	7.32E-10	1.74E-10
STRONTIUM	7440-24-6		8.78E-10	0.00E+00
STYRENE	100-42-5		1.64E-15	0.00E+00
SULFURIC ACID	7664-93-9		3.02E-06	0.00E+00
TETRACHLOROETHYLENE	127-18-4		3.32E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		2.52E-16	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Northern Bobwhite Dose**	**Northern Bobwhite ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	5.31E-10	7.81E-11
TOLUENE	108-88-3		4.60E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.52E-18	0.00E+00
ZINC	7440-66-6	14.5	4.39E-09	3.03E-10
DIOXIN TEQ (1)				9.38E-11
CUMULATIVE ESQ				**5.27E-06**
(1): See Appendix B for dioxin calculations				

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.86E-14	5.86E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		8.98E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		8.09E-17	0.00E+00
1,3-BUTADIENE	106-99-0		2.86E-17	0.00E+00
1,4-DIOXANE	123-91-1		3.33E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		4.86E-12	4.86E-12
2-NITROPHENOL	88-75-5		6.43E-16	0.00E+00
ACENAPHTHENE	83-32-9		1.35E-16	0.00E+00
ACETALDEHYDE	75-07-0		4.96E-14	0.00E+00
ACETONE	67-64-1		1.90E-14	0.00E+00
ACETONITRILE	75-05-8		1.15E-14	0.00E+00
ACROLEIN	107-02-8		3.19E-15	0.00E+00
ACRYLONITRILE	107-13-1		3.97E-14	0.00E+00
ALUMINUM	7429-90-5	109.7	2.74E-08	2.50E-10
AMMONIA	7664-41-7		4.62E-12	0.00E+00
ANTHRACENE	120-12-7		1.32E-16	0.00E+00
ANTIMONY	7440-36-0		9.68E-18	0.00E+00
ARSENIC	7440-38-2	2.5	7.67E-08	3.07E-08
BARIUM	7440-39-3	20.8	2.34E-08	1.12E-09
BENZ(A)ANTHRACENE	56-55-3		2.20E-09	0.00E+00
BENZENE	71-43-2		5.76E-15	0.00E+00
BENZO(A)PYRENE	50-32-8		2.42E-08	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		2.22E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.77E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		1.27E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.52E-04	1.38E-04

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		5.59E-10	0.00E+00
CADMIUM	7440-43-9	1.45	7.59E-09	5.23E-09
CARBON TETRACHLORIDE	56-23-5		4.14E-18	0.00E+00
CHLOROETHANE	75-00-3		2.29E-17	0.00E+00
CHLOROFORM	67-66-3		6.22E-18	0.00E+00
CHROMIUM	7440-47-3	1	9.34E-08	9.34E-08
CHRYSENE	218-01-9		3.75E-09	0.00E+00
COPPER	7440-50-8	47	1.14E-05	2.42E-07
CROTONALDEHYDE	123-73-9		3.25E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		3.20E-17	0.00E+00
CYANIDE	57-12-5		1.03E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.78E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.12E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.42E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.42E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		8.91E-09	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.46E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		2.27E-18	0.00E+00
ETHYLBENZENE	100-41-4		2.62E-16	0.00E+00
FLUORANTHENE	206-44-0		3.71E-11	0.00E+00
FORMALDEHYDE	50-00-0		5.88E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		5.69E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		8.24E-20	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.86E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.18E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.68E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.44E-07	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	American Robin Dose	American Robin ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	3.78E-05	3.35E-05
MANGANESE	7439-96-5	997	1.26E-09	1.27E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		9.57E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3		3.97E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		4.33E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		4.06E-15	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.63E-13	0.00E+00
MOLYBDENUM	7439-98-7	3.5	3.15E-09	9.00E-10
M-XYLENE	108-38-3		5.66E-16	0.00E+00
NAPHTHALENE	91-20-3		2.28E-14	0.00E+00
O-XYLENE	95-47-6		3.05E-16	0.00E+00
PHENANTHRENE	85-01-8		1.03E-15	0.00E+00
PHENOL	108-95-2		5.88E-15	0.00E+00
PHOSPHOROUS	7723-14-0		1.41E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		3.30E-15	0.00E+00
P-XYLENE	106-42-3		5.88E-16	0.00E+00
PYRENE	129-00-0		7.04E-11	0.00E+00
PYRIDINE	110-86-1		4.68E-16	0.00E+00
SILVER	7440-22-4	4.2	4.67E-09	1.11E-09
STRONTIUM	7440-24-6		5.60E-09	0.00E+00
STYRENE	100-42-5		1.76E-15	0.00E+00
SULFURIC ACID	7664-93-9		1.93E-05	0.00E+00
TETRACHLOROETHYLENE	127-18-4		3.57E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		2.71E-16	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**American Robin Dose**	**American Robin ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	3.38E-09	4.98E-10
TOLUENE	108-88-3		4.95E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.71E-18	0.00E+00
ZINC	7440-66-6	14.5	2.83E-08	1.95E-09
DIOXIN TEQ (1)				3.47E-07
CUMULATIVE ESQ				**1.73E-04**
(1): See Appendix B for dioxin calculations				

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.37E-12	1.37E-13
1,2,4-TRIMETHYLBENZENE	95-63-6		5.37E-22	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		5.78E-17	0.00E+00
1,3-BUTADIENE	106-99-0		2.04E-17	0.00E+00
1,4-DIOXANE	123-91-1		2.38E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.75E-11	1.75E-11
2-NITROPHENOL	88-75-5		4.59E-16	0.00E+00
ACENAPHTHENE	83-32-9		9.67E-17	0.00E+00
ACETALDEHYDE	75-07-0		3.54E-14	0.00E+00
ACETONE	67-64-1		1.35E-14	0.00E+00
ACETONITRILE	75-05-8		8.22E-15	0.00E+00
ACROLEIN	107-02-8		2.28E-15	0.00E+00
ACRYLONITRILE	107-13-1		2.84E-14	0.00E+00
ALUMINUM	7429-90-5	109.7	2.68E-07	2.45E-09
AMMONIA	7664-41-7		3.30E-12	0.00E+00
ANTHRACENE	120-12-7		9.45E-17	0.00E+00
ANTIMONY	7440-36-0		6.91E-18	0.00E+00
ARSENIC	7440-38-2	2.5	1.41E-10	5.63E-11
BARIUM	7440-39-3	20.8	4.63E-11	2.23E-12
BENZ(A)ANTHRACENE	56-55-3		2.95E-07	0.00E+00
BENZENE	71-43-2		4.12E-15	0.00E+00
BENZO(A)PYRENE	50-32-8		5.79E-07	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		1.80E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.03E-06	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		3.05E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.08E-04	9.85E-05

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		3.01E-09	0.00E+00
CADMIUM	7440-43-9	1.45	1.05E-09	7.23E-10
CARBON TETRACHLORIDE	56-23-5		2.96E-18	0.00E+00
CHLOROETHANE	75-00-3		1.63E-17	0.00E+00
CHLOROFORM	67-66-3		4.44E-18	0.00E+00
CHROMIUM	7440-47-3	1	1.25E-05	1.25E-05
CHRYSENE	218-01-9		2.26E-07	0.00E+00
COPPER	7440-50-8	47	7.73E-07	1.64E-08
CROTONALDEHYDE	123-73-9		2.32E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.29E-17	0.00E+00
CYANIDE	57-12-5		7.35E-14	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		9.94E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.52E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.01E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.02E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.60E-08	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.03E-01	0.00E+00
ETHYL ACRYLATE	140-88-5		1.62E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.87E-16	0.00E+00
FLUORANTHENE	206-44-0		1.26E-08	0.00E+00
FORMALDEHYDE	50-00-0		4.20E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		6.75E-19	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		5.88E-20	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.05E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		8.40E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.20E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.20E-06	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	American Woodcock Dose	American Woodcock ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	6.54E-05	5.78E-05
MANGANESE	7439-96-5	997	1.62E-11	1.62E-14
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		6.84E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3		2.83E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		3.09E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		2.90E-15	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.33E-11	0.00E+00
MOLYBDENUM	7439-98-7	3.5	4.16E-10	1.19E-10
M-XYLENE	108-38-3		4.05E-16	0.00E+00
NAPHTHALENE	91-20-3		1.63E-14	0.00E+00
O-XYLENE	95-47-6		2.18E-16	0.00E+00
PHENANTHRENE	85-01-8		7.36E-16	0.00E+00
PHENOL	108-95-2		4.20E-15	0.00E+00
PHOSPHOROUS	7723-14-0		2.01E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		2.36E-15	0.00E+00
P-XYLENE	106-42-3		4.20E-16	0.00E+00
PYRENE	129-00-0		1.01E-07	0.00E+00
PYRIDINE	110-86-1		3.34E-16	0.00E+00
SILVER	7440-22-4	4.2	1.94E-12	4.62E-13
STRONTIUM	7440-24-6		4.72E-10	0.00E+00
STYRENE	100-42-5		1.26E-15	0.00E+00
SULFURIC ACID	7664-93-9		4.34E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.55E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		1.94E-16	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**American Woodcock Dose**	**American Woodcock ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	5.59E-09	8.22E-10
TOLUENE	108-88-3		3.54E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.94E-18	0.00E+00
ZINC	7440-66-6	14.5	3.54E-09	2.44E-10
DIOXIN TEQ (1)				1.26E-06
CUMULATIVE ESQ				**1.70E-04**
(1): See Appendix B for dioxin calculations				

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	Red Tailed Hawk Dose	Red Tailed Hawk ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.40E-15	2.40E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		3.12E-21	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		3.41E-16	0.00E+00
1,3-BUTADIENE	106-99-0		1.20E-16	0.00E+00
1,4-DIOXANE	123-91-1		1.40E-15	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.01E-13	2.01E-13
2-NITROPHENOL	88-75-5		2.71E-15	0.00E+00
ACENAPHTHENE	83-32-9		5.70E-16	0.00E+00
ACETALDEHYDE	75-07-0		2.09E-13	0.00E+00
ACETONE	67-64-1		7.99E-14	0.00E+00
ACETONITRILE	75-05-8		4.85E-14	0.00E+00
ACROLEIN	107-02-8		1.35E-14	0.00E+00
ACRYLONITRILE	107-13-1		1.67E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	1.46E-12	1.33E-14
AMMONIA	7664-41-7		1.95E-11	0.00E+00
ANTHRACENE	120-12-7		5.58E-16	0.00E+00
ANTIMONY	7440-36-0		4.08E-17	0.00E+00
ARSENIC	7440-38-2	2.5	1.03E-12	4.11E-13
BARIUM	7440-39-3	20.8	3.12E-13	1.50E-14
BENZ(A)ANTHRACENE	56-55-3		3.14E-11	0.00E+00
BENZENE	71-43-2		2.43E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		5.54E-10	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		4.46E-12	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.65E-10	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		2.81E-13	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	5.42E-06	4.93E-06

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	Red Tailed Hawk Dose	Red Tailed Hawk ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		2.08E-14	0.00E+00
CADMIUM	7440-43-9	1.45	9.19E-13	6.34E-13
CARBON TETRACHLORIDE	56-23-5		1.74E-17	0.00E+00
CHLOROETHANE	75-00-3		9.63E-17	0.00E+00
CHLOROFORM	67-66-3		2.62E-17	0.00E+00
CHROMIUM	7440-47-3	1	2.53E-10	2.53E-10
CHRYSENE	218-01-9		3.20E-11	0.00E+00
COPPER	7440-50-8	47	1.81E-10	3.85E-12
CROTONALDEHYDE	123-73-9		1.37E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.35E-16	0.00E+00
CYANIDE	57-12-5		4.34E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		3.91E-11	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		8.94E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		5.98E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		6.00E-15	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		4.42E-11	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		3.17E-03	0.00E+00
ETHYL ACRYLATE	140-88-5		9.54E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.10E-15	0.00E+00
FLUORANTHENE	206-44-0		3.07E-15	0.00E+00
FORMALDEHYDE	50-00-0		2.48E-12	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		3.86E-18	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		3.47E-19	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		1.21E-22	0.00E+00
HYDROGEN CYANIDE	74-90-8		4.95E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		7.08E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		5.39E-10	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Bird TRV	Red Tailed Hawk Dose	Red Tailed Hawk ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	1.30E-09	1.15E-09
MANGANESE	7439-96-5	997	1.69E-14	1.70E-17
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		4.03E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.67E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.82E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		1.71E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.23E-15	0.00E+00
MOLYBDENUM	7439-98-7	3.5	4.33E-14	1.24E-14
M-XYLENE	108-38-3		2.39E-15	0.00E+00
NAPHTHALENE	91-20-3		9.60E-14	0.00E+00
O-XYLENE	95-47-6		1.29E-15	0.00E+00
PHENANTHRENE	85-01-8		4.34E-15	0.00E+00
PHENOL	108-95-2		2.48E-14	0.00E+00
PHOSPHOROUS	7723-14-0		9.93E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		1.39E-14	0.00E+00
P-XYLENE	106-42-3		2.48E-15	0.00E+00
PYRENE	129-00-0		6.30E-15	0.00E+00
PYRIDINE	110-86-1		1.97E-15	0.00E+00
SILVER	7440-22-4	4.2	6.25E-14	1.49E-14
STRONTIUM	7440-24-6		7.55E-14	0.00E+00
STYRENE	100-42-5		7.43E-15	0.00E+00
SULFURIC ACID	7664-93-9		2.56E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.51E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		1.14E-15	0.00E+00

Table 53 - Terrestrial Avian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Bird TRV**	**Red Tailed Hawk Dose**	**Red Tailed Hawk ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	4.66E-14	6.86E-15
TOLUENE	108-88-3		2.09E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.14E-17	0.00E+00
ZINC	7440-66-6	14.5	1.23E-12	8.46E-14
DIOXIN TEQ (1)				1.44E-08
CUMULATIVE ESQ				**4.94E-06**
(1): See Appendix B for dioxin calculations				

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.20E-13	3.59E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		5.75E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.21E-16	0.00E+00
1,3-BUTADIENE	106-99-0		4.29E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	4.99E-16	3.57E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.27E-12	3.80E-13
2-NITROPHENOL	88-75-5		9.64E-16	0.00E+00
ACENAPHTHENE	83-32-9		2.03E-16	0.00E+00
ACETALDEHYDE	75-07-0		7.44E-14	0.00E+00
ACETONE	67-64-1	2.8	2.85E-14	1.02E-14
ACETONITRILE	75-05-8		1.73E-14	0.00E+00
ACROLEIN	107-02-8		4.79E-15	0.00E+00
ACRYLONITRILE	107-13-1		5.95E-14	0.00E+00
ALUMINUM	7429-90-5	0.293	4.14E-08	1.41E-07
AMMONIA	7664-41-7		6.93E-12	0.00E+00
ANTHRACENE	120-12-7		1.98E-16	0.00E+00
ANTIMONY	7440-36-0	0.019	1.45E-17	7.64E-16
ARSENIC	7440-38-2	0.019	4.91E-08	2.58E-06
BARIUM	7440-39-3	1.5	1.50E-08	9.97E-09
BENZ(A)ANTHRACENE	56-55-3		2.71E-08	0.00E+00
BENZENE	71-43-2	4	8.65E-15	2.16E-15
BENZO(A)PYRENE	50-32-8	0.15	5.56E-08	3.71E-07
BENZO(B)FLUORANTHENE	205-99-2		2.92E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		9.65E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.02E-09	5.37E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.08E-07	4.31E-08

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		6.28E-10	0.00E+00
CADMIUM	7440-43-9	0.271	4.76E-09	1.76E-08
CARBON TETRACHLORIDE	56-23-5	4.5	6.21E-18	1.38E-18
CHLOROETHANE	75-00-3		3.43E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	9.32E-18	2.22E-18
CHROMIUM	7440-47-3	768	1.13E-06	1.47E-09
CHRYSENE	218-01-9		2.19E-08	0.00E+00
COPPER	7440-50-8	4.3	7.35E-06	1.71E-06
CROTONALDEHYDE	123-73-9		4.87E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		4.80E-17	0.00E+00
CYANIDE	57-12-5	18.1	1.54E-13	8.53E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		1.97E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		3.18E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	2.13E-15	3.06E-18
DIMETHYL PHTHALATE	131-11-3	3500	2.13E-15	6.10E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	1.33E-09	1.61E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	4.11E-08	4.20E-12
ETHYL ACRYLATE	140-88-5		3.40E-18	0.00E+00
ETHYLBENZENE	100-41-4		3.93E-16	0.00E+00
FLUORANTHENE	206-44-0		1.16E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	8.82E-13	1.38E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		3.65E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.24E-19	1.34E-19
HYDROGEN CHLORIDE	7647-01-0		4.29E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.76E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.52E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.91E-07	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Meadow Vole Dose	Meadow Vole ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	2.99E-05	1.34E-05
MANGANESE	7439-96-5	25	8.10E-10	3.24E-11
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.44E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	5.95E-15	1.20E-17
METHYL ISOBUTYL KETONE	108-10-1	7	6.49E-16	9.27E-17
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	6.09E-15	3.81E-15
METHYLNAPHTHALENE, 2-	91-57-6		1.30E-12	0.00E+00
MOLYBDENUM	7439-98-7	0.04	2.05E-09	5.14E-08
M-XYLENE	108-38-3		8.50E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	3.42E-14	1.37E-14
O-XYLENE	95-47-6		4.58E-16	0.00E+00
PHENANTHRENE	85-01-8		1.55E-15	0.00E+00
PHENOL	108-95-2		8.82E-15	0.00E+00
PHOSPHOROUS	7723-14-0		1.11E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		4.95E-15	0.00E+00
P-XYLENE	106-42-3		8.83E-16	0.00E+00
PYRENE	129-00-0		9.12E-09	0.00E+00
PYRIDINE	110-86-1		7.01E-16	0.00E+00
SILVER	7440-22-4	14	2.99E-09	2.13E-10
STRONTIUM	7440-24-6	74	3.62E-09	4.90E-11
STYRENE	100-42-5		2.64E-15	0.00E+00
SULFURIC ACID	7664-93-9		1.23E-05	0.00E+00
TETRACHLOROETHYLENE	127-18-4		5.36E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		4.07E-16	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Meadow Vole Dose**	**Meadow Vole ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	2.67E-09	7.41E-10
TOLUENE	108-88-3	3.9	7.43E-15	1.90E-15
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		4.07E-18	0.00E+00
ZINC	7440-66-6	44.9	1.82E-08	4.05E-10
DIOXIN TEQ (1)				1.28E-06
CUMULATIVE ESQ				**1.96E-05**
(1): See Appendix B for dioxin calculations				

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		8.55E-11	2.56E-12
1,2,4-TRIMETHYLBENZENE	95-63-6		3.70E-15	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		4.80E-17	0.00E+00
1,3-BUTADIENE	106-99-0		1.96E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.97E-16	1.41E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.01E-09	3.04E-10
2-NITROPHENOL	88-75-5		3.81E-16	0.00E+00
ACENAPHTHENE	83-32-9		8.02E-17	0.00E+00
ACETALDEHYDE	75-07-0		2.94E-14	0.00E+00
ACETONE	67-64-1	2.8	1.12E-14	4.02E-15
ACETONITRILE	75-05-8		6.82E-15	0.00E+00
ACROLEIN	107-02-8		1.89E-15	0.00E+00
ACRYLONITRILE	107-13-1		2.35E-14	0.00E+00
ALUMINUM	7429-90-5	0.293	1.81E-05	6.18E-05
AMMONIA	7664-41-7		2.74E-12	0.00E+00
ANTHRACENE	120-12-7		7.84E-17	0.00E+00
ANTIMONY	7440-36-0	0.019	5.74E-18	3.02E-16
ARSENIC	7440-38-2	0.019	3.17E-06	1.67E-04
BARIUM	7440-39-3	1.5	9.66E-07	6.44E-07
BENZ(A)ANTHRACENE	56-55-3		1.87E-05	0.00E+00
BENZENE	71-43-2	4	3.42E-15	8.54E-16
BENZO(A)PYRENE	50-32-8	0.15	3.67E-05	2.44E-04
BENZO(B)FLUORANTHENE	205-99-2		1.22E-06	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		6.56E-05	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	2.40E-07	1.26E-06
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	3.98E-03	1.59E-03

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		2.14E-07	0.00E+00
CADMIUM	7440-43-9	0.271	3.63E-07	1.34E-06
CARBON TETRACHLORIDE	56-23-5	4.5	2.45E-18	5.45E-19
CHLOROETHANE	75-00-3		1.36E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	3.69E-18	8.77E-19
CHROMIUM	7440-47-3	768	7.94E-04	1.03E-06
CHRYSENE	218-01-9		1.44E-05	0.00E+00
COPPER	7440-50-8	4.3	5.18E-04	1.20E-04
CROTONALDEHYDE	123-73-9		2.00E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.90E-17	0.00E+00
CYANIDE	57-12-5	18.1	6.10E-14	3.37E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		6.98E-06	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.26E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	8.41E-16	1.21E-18
DIMETHYL PHTHALATE	131-11-3	3500	8.43E-16	2.41E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	8.86E-07	1.07E-08
DI-N-OCTYL PHTHALATE	117-84-0	9780	3.77E+00	3.86E-04
ETHYL ACRYLATE	140-88-5		1.43E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.55E-16	0.00E+00
FLUORANTHENE	206-44-0		8.02E-07	0.00E+00
FORMALDEHYDE	50-00-0	6.4	3.49E-13	5.45E-14
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		2.34E-14	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	4.88E-20	5.31E-20
HYDROGEN CHLORIDE	7647-01-0		1.70E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.46E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.01E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		8.13E-05	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Raccoon Dose	Raccoon ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	5.69E-03	2.54E-03
MANGANESE	7439-96-5	25	5.31E-08	2.13E-09
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		5.68E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	2.35E-15	4.73E-18
METHYL ISOBUTYL KETONE	108-10-1	7	2.57E-16	3.66E-17
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	2.41E-15	1.50E-15
METHYLNAPHTHALENE, 2-	91-57-6		8.48E-10	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.56E-07	3.91E-06
M-XYLENE	108-38-3		3.36E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.35E-14	5.40E-15
O-XYLENE	95-47-6		1.81E-16	0.00E+00
PHENANTHRENE	85-01-8		6.11E-16	0.00E+00
PHENOL	108-95-2		3.49E-15	0.00E+00
PHOSPHOROUS	7723-14-0		5.07E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		1.96E-15	0.00E+00
P-XYLENE	106-42-3		3.49E-16	0.00E+00
PYRENE	129-00-0		6.40E-06	0.00E+00
PYRIDINE	110-86-1		2.77E-16	0.00E+00
SILVER	7440-22-4	14	1.92E-07	1.37E-08
STRONTIUM	7440-24-6	74	2.61E-07	3.52E-09
STYRENE	100-42-5		1.04E-15	0.00E+00
SULFURIC ACID	7664-93-9		7.95E-04	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.12E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		1.61E-16	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Raccoon Dose**	**Raccoon ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	4.94E-07	1.37E-07
TOLUENE	108-88-3	3.9	2.94E-15	7.53E-16
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.61E-18	0.00E+00
ZINC	7440-66-6	44.9	1.37E-06	3.06E-08
DIOXIN TEQ (1)				1.02E-03
CUMULATIVE ESQ				**6.14E-03**
(1): See Appendix B for dioxin calculations				

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.69E-13	8.08E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		6.75E-18	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.29E-16	0.00E+00
1,3-BUTADIENE	106-99-0		4.55E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	5.30E-16	3.79E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		4.55E-12	1.37E-12
2-NITROPHENOL	88-75-5		1.02E-15	0.00E+00
ACENAPHTHENE	83-32-9		2.16E-16	0.00E+00
ACETALDEHYDE	75-07-0		7.90E-14	0.00E+00
ACETONE	67-64-1	2.8	3.02E-14	1.08E-14
ACETONITRILE	75-05-8		1.83E-14	0.00E+00
ACROLEIN	107-02-8		5.08E-15	0.00E+00
ACRYLONITRILE	107-13-1		6.32E-14	0.00E+00
ALUMINUM	7429-90-5	0.293	5.20E-08	1.77E-07
AMMONIA	7664-41-7		7.36E-12	0.00E+00
ANTHRACENE	120-12-7		2.11E-16	0.00E+00
ANTIMONY	7440-36-0	0.019	1.54E-17	8.11E-16
ARSENIC	7440-38-2	0.019	5.79E-09	3.05E-07
BARIUM	7440-39-3	1.5	1.77E-09	1.18E-09
BENZ(A)ANTHRACENE	56-55-3		5.53E-08	0.00E+00
BENZENE	71-43-2	4	9.18E-15	2.30E-15
BENZO(A)PYRENE	50-32-8	0.15	1.13E-07	7.51E-07
BENZO(B)FLUORANTHENE	205-99-2		3.55E-09	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.96E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	6.79E-10	3.57E-09
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	6.12E-05	2.45E-05

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		6.01E-10	0.00E+00
CADMIUM	7440-43-9	0.271	8.19E-10	3.02E-09
CARBON TETRACHLORIDE	56-23-5	4.5	6.60E-18	1.47E-18
CHLOROETHANE	75-00-3		3.64E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	9.90E-18	2.36E-18
CHROMIUM	7440-47-3	768	2.35E-06	3.07E-09
CHRYSENE	218-01-9		4.25E-08	0.00E+00
COPPER	7440-50-8	4.3	1.00E-06	2.33E-07
CROTONALDEHYDE	123-73-9		5.17E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		5.10E-17	0.00E+00
CYANIDE	57-12-5	18.1	1.64E-13	9.05E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		2.00E-08	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		3.38E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	2.26E-15	3.25E-18
DIMETHYL PHTHALATE	131-11-3	3500	2.27E-15	6.47E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	5.26E-09	6.33E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	5.87E-02	6.00E-06
ETHYL ACRYLATE	140-88-5		3.60E-18	0.00E+00
ETHYLBENZENE	100-41-4		4.17E-16	0.00E+00
FLUORANTHENE	206-44-0		2.35E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	9.37E-13	1.46E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		4.41E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.31E-19	1.43E-19
HYDROGEN CHLORIDE	7647-01-0		4.56E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.87E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.68E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.37E-07	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Short Tailed Shrew Dose	Short Tailed Shrew ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	1.50E-05	6.72E-06
MANGANESE	7439-96-5	25	9.81E-11	3.92E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.52E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	6.32E-15	1.27E-17
METHYL ISOBUTYL KETONE	108-10-1	7	6.89E-16	9.85E-17
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	6.47E-15	4.04E-15
METHYLNAPHTHALENE, 2-	91-57-6		2.48E-12	0.00E+00
MOLYBDENUM	7439-98-7	0.04	3.14E-10	7.86E-09
M-XYLENE	108-38-3		9.02E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	3.63E-14	1.45E-14
O-XYLENE	95-47-6		4.86E-16	0.00E+00
PHENANTHRENE	85-01-8		1.64E-15	0.00E+00
PHENOL	108-95-2		9.37E-15	0.00E+00
PHOSPHOROUS	7723-14-0		4.70E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		5.26E-15	0.00E+00
P-XYLENE	106-42-3		9.37E-16	0.00E+00
PYRENE	129-00-0		1.88E-08	0.00E+00
PYRIDINE	110-86-1		7.45E-16	0.00E+00
SILVER	7440-22-4	14	3.51E-10	2.51E-11
STRONTIUM	7440-24-6	74	5.09E-10	6.87E-12
STYRENE	100-42-5		2.81E-15	0.00E+00
SULFURIC ACID	7664-93-9		1.45E-06	0.00E+00
TETRACHLOROETHYLENE	127-18-4		5.69E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		4.32E-16	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Short Tailed Shrew Dose**	**Short Tailed Shrew ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	1.29E-09	3.59E-10
TOLUENE	108-88-3	3.9	7.89E-15	2.02E-15
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		4.32E-18	0.00E+00
ZINC	7440-66-6	44.9	2.84E-09	6.32E-11
DIOXIN TEQ (1)				4.58E-06
CUMULATIVE ESQ				**4.33E-05**
(1): See Appendix B for dioxin calculations				

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		6.84E-14	2.05E-15
1,2,4-TRIMETHYLBENZENE	95-63-6		4.55E-22	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		4.97E-17	0.00E+00
1,3-BUTADIENE	106-99-0		1.76E-17	0.00E+00
1,4-DIOXANE	123-91-1	0.14	2.04E-16	1.46E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		9.87E-13	2.96E-13
2-NITROPHENOL	88-75-5		3.95E-16	0.00E+00
ACENAPHTHENE	83-32-9		8.31E-17	0.00E+00
ACETALDEHYDE	75-07-0		3.05E-14	0.00E+00
ACETONE	67-64-1	2.8	1.17E-14	4.16E-15
ACETONITRILE	75-05-8		7.07E-15	0.00E+00
ACROLEIN	107-02-8		1.96E-15	0.00E+00
ACRYLONITRILE	107-13-1		2.44E-14	0.00E+00
ALUMINUM	7429-90-5	0.293	1.31E-08	4.48E-08
AMMONIA	7664-41-7		2.84E-12	0.00E+00
ANTHRACENE	120-12-7		8.13E-17	0.00E+00
ANTIMONY	7440-36-0	0.019	5.95E-18	3.13E-16
ARSENIC	7440-38-2	0.019	6.97E-12	3.67E-10
BARIUM	7440-39-3	1.5	2.31E-12	1.54E-12
BENZ(A)ANTHRACENE	56-55-3		1.45E-08	0.00E+00
BENZENE	71-43-2	4	3.54E-15	8.85E-16
BENZO(A)PYRENE	50-32-8	0.15	2.86E-08	1.91E-07
BENZO(B)FLUORANTHENE	205-99-2		8.84E-10	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.08E-08	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.47E-10	7.71E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	8.11E-06	3.25E-06

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
BUTYLBENZYLPHTHALATE	85-68-7		1.47E-10	0.00E+00
CADMIUM	7440-43-9	0.271	4.30E-11	1.59E-10
CARBON TETRACHLORIDE	56-23-5	4.5	2.54E-18	5.65E-19
CHLOROETHANE	75-00-3		1.40E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	3.82E-18	9.09E-19
CHROMIUM	7440-47-3	768	6.11E-07	7.96E-10
CHRYSENE	218-01-9		1.11E-08	0.00E+00
COPPER	7440-50-8	4.3	3.76E-08	8.74E-09
CROTONALDEHYDE	123-73-9		1.99E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.97E-17	0.00E+00
CYANIDE	57-12-5	18.1	6.32E-14	3.49E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		4.89E-09	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.30E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	8.72E-16	1.25E-18
DIMETHYL PHTHALATE	131-11-3	3500	8.74E-16	2.50E-19
DI-N-BUTYL PHTHALATE	84-74-2	83	5.65E-10	6.81E-12
DI-N-OCTYL PHTHALATE	117-84-0	9780	4.72E-03	4.83E-07
ETHYL ACRYLATE	140-88-5		1.39E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.61E-16	0.00E+00
FLUORANTHENE	206-44-0		6.18E-10	0.00E+00
FORMALDEHYDE	50-00-0	6.4	3.61E-13	5.64E-14
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		5.64E-19	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	5.06E-20	5.50E-20
HYDROGEN CHLORIDE	7647-01-0		1.76E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.22E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.03E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		5.92E-08	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	CAS	Mammal TRV	Red Fox Dose	Red Fox ESQ
		(mg/kg/day)	(mg/kg/day)	(unitless)
LEAD	7439-92-1	2.24	3.19E-06	1.42E-06
MANGANESE	7439-96-5	25	7.92E-13	3.17E-14
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		5.88E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	2.44E-15	4.90E-18
METHYL ISOBUTYL KETONE	108-10-1	7	2.66E-16	3.80E-17
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	2.49E-15	1.56E-15
METHYLNAPHTHALENE, 2-	91-57-6		6.50E-13	0.00E+00
MOLYBDENUM	7439-98-7	0.04	2.04E-11	5.09E-10
M-XYLENE	108-38-3		3.48E-16	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.40E-14	5.60E-15
O-XYLENE	95-47-6		1.87E-16	0.00E+00
PHENANTHRENE	85-01-8		6.33E-16	0.00E+00
PHENOL	108-95-2		3.61E-15	0.00E+00
PHOSPHOROUS	7723-14-0		1.46E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		2.03E-15	0.00E+00
P-XYLENE	106-42-3		3.61E-16	0.00E+00
PYRENE	129-00-0		4.94E-09	0.00E+00
PYRIDINE	110-86-1		2.87E-16	0.00E+00
SILVER	7440-22-4	14	1.01E-13	7.21E-15
STRONTIUM	7440-24-6	74	2.31E-11	3.13E-13
STYRENE	100-42-5		1.08E-15	0.00E+00
SULFURIC ACID	7664-93-9		3.74E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.20E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		1.67E-16	0.00E+00

Table 54 - Terrestrial Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
COPC	**CAS**	**Mammal TRV**	**Red Fox Dose**	**Red Fox ESQ**
		(mg/kg/day)	(mg/kg/day)	(unitless)
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	2.73E-10	7.60E-11
TOLUENE	108-88-3	3.9	3.04E-15	7.80E-16
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.67E-18	0.00E+00
ZINC	7440-66-6	44.9	1.65E-10	3.67E-12
DIOXIN TEQ (1)				9.94E-07
CUMULATIVE ESQ				**6.39E-06**
(1): See Appendix B for dioxin calculations				

Table 55 - Aquatic Community ESQs: Skid Burn Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00		0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00	33	3.20E-19
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00	71	1.62E-14
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00	119	1.39E-15	22000	2.16E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00	1920	4.77E-15
ACENAPHTHENE	83-32-9		0.00E+00	0.01	3.76E-08	5.8	3.32E-13
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00	1500	1.80E-13
ACETONITRILE	75-05-8		0.00E+00		0.00E+00	12000	1.37E-14
ACROLEIN	107-02-8		0.00E+00	0.00152	1.67E-09	0.01	4.55E-09
ACRYLONITRILE	107-13-1		0.00E+00	1.2	1.60E-10	160	3.53E-12
ALUMINUM	7429-90-5	50	3.77E-08		0.00E+00	87	1.47E-11
AMMONIA	7664-41-7		0.00E+00		0.00E+00	19	3.46E-09
ANTHRACENE	120-12-7		0.00E+00	0.0572	3.04E-08	0.012	1.57E-10
ANTIMONY	7440-36-0	5	1.24E-12	2	3.10E-12	30	4.60E-15
ARSENIC	7440-38-2	18	5.56E-09	9.8	1.02E-08	5	6.91E-10

Table 55 - Aquatic Community ESQs: Skid Burn Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
BARIUM	7440-39-3	500	8.63E-11		0.00E+00	4	2.63E-10
BENZ(A)ANTHRACENE	56-55-3		0.00E+00	0.108	3.45E-06	0.018	3.31E-09
BENZENE	71-43-2		0.00E+00	10	4.79E-11	370	2.22E-13
BENZO(A)PYRENE	50-32-8		0.00E+00	0.15	1.78E-05	0.015	1.09E-08
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00	0.0272	4.41E-06	9.07	7.99E-13
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00	0.24	6.40E-06		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10	4.25E-09		0.00E+00	0.66	8.21E-11
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00	0.18	1.04E-04	16	2.86E-10
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00	10.9	1.84E-09	19	3.71E-12
CADMIUM	7440-43-9	4	6.22E-09	0.99	2.51E-08	0.25	1.33E-09
CARBON TETRACHLORIDE	56-23-5		0.00E+00	0.0642	1.61E-12	13.3	4.44E-15
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00	121	9.31E-16	1.8	4.92E-14
CHROMIUM	7440-47-3	1	2.30E-04	43.4	5.30E-06	85	2.86E-11
CHRYSENE	218-01-9		0.00E+00	0.166	1.30E-06		0.00E+00
COPPER	7440-50-8	70	2.59E-07	31.6	5.73E-07	9	5.76E-08
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00	0.09	1.88E-10	2.6	1.76E-13
CYANIDE	57-12-5		0.00E+00	0.1	0.00E+00	5	2.93E-10

Table 55 - Aquatic Community ESQs: Skid Burn Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00	0.033	1.89E-05		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00		0.00E+00
DIETHYL PHTHALATE	84-66-2		0.00E+00	0.6	1.10E-10	210	9.63E-14
DIMETHYL PHTHALATE	131-11-3		0.00E+00		0.00E+00	3	6.76E-12
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00	6.47	2.68E-09	19	1.46E-11
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00	40600	2.12E-10	22	7.68E-11
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00	1.1	6.05E-11	90	4.15E-14
FLUORANTHENE	206-44-0		0.00E+00	0.423	4.65E-08	0.04	2.60E-10
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.02	0.00E+00	0.0003	0.00E+00
HEXANE, N-	110-54-3		0.00E+00	0.0396	1.73E-12	0.58	2.25E-14
HEXAVALENT CHROMIUM	18540-29-9	1	2.23E-14	43.4	5.14E-16	11	1.07E-16
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00	0.017	5.76E-04	4.31	7.17E-11
LEAD	7439-92-1	50	3.07E-05	35.8	4.29E-05	2.5	6.89E-07
MANGANESE	7439-96-5	220	1.69E-11	460	8.06E-12	120	4.76E-13

Table 55 - Aquatic Community ESQs: Skid Burn Scenario							
COPC	CAS	Plant TRV	Aquatic Vegetation ESQ	Benthic Invertebrates TRV	Benthic Invertebrates ESQ	Freshwater TRV	Fish ESQ
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	1.37	0.00E+00	16	0.00E+00
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00		0.00E+00
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00	14000	4.04E-15
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00	25.1	1.18E-13	170	3.63E-14
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00	98.1	5.90E-13
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00	0.02	2.05E-08	4.7	8.83E-13
MOLYBDENUM	7439-98-7	2	1.46E-09		0.00E+00	73	2.01E-12
M-XYLENE	108-38-3	10	1.21E-11	0.0252	4.81E-09	1.8	4.48E-12
NAPHTHALENE	91-20-3		0.00E+00	0.18	1.11E-07	1.1	2.95E-10
O-XYLENE	95-47-6		0.00E+00		0.00E+00	350	1.24E-14
PHENANTHRENE	85-01-8		0.00E+00	0.2	7.64E-08	0.4	3.67E-11
PHENOL	108-95-2	70	8.96E-12	0.42	1.49E-09	4	2.09E-11
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10	1.26E-11	0.0252	4.99E-09	1.8	4.66E-12
PYRENE	129-00-0		0.00E+00	0.195	2.28E-07	0.025	8.52E-10

Table 55 - Aquatic Community ESQs: Skid Burn Scenario							
COPC	**CAS**	**Plant TRV**	**Aquatic Vegetation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
PYRIDINE	110-86-1		0.00E+00	106	1.80E-13	2380	2.80E-15
SILVER	7440-22-4	2	8.72E-10	1	1.74E-09	3.2	6.57E-11
STRONTIUM	7440-24-6		0.00E+00		0.00E+00	1500	1.70E-13
STYRENE	100-42-5	300	1.49E-12	0.559	8.01E-10	72	3.49E-13
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00		0.00E+00
TETRACHLOROETHYLENE	127-18-4		0.00E+00	0.468	4.13E-13	111	4.59E-16
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1	0.00E+00		0.00E+00	0.8	0.00E+00
TIN	7440-31-5	50	7.86E-10		0.00E+00	73	2.16E-12
TOLUENE	108-88-3	200	3.30E-12	1220	5.41E-13	2	3.53E-11
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.1	0.00E+00	21	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00	11000	3.51E-18
ZINC	7440-66-6	50	1.58E-09	121	6.51E-10	120	1.06E-11
DIOXIN TEQ (1)							
TOTAL ESQ			**2.61E-04**		**7.82E-04**		**7.74E-07**
(1): See Appendix B for dioxin calculations							

Table 56 - Aquatic Community ESQs: Skid Burn 183 Day Scenario							
Constituent	**CAS**	**Plant TRV**	**Aquatic Vegitation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		0.00E+00		0.00E+00		0.00E+00
1,2,4-TRIMETHYLBENZENE	95-63-6		0.00E+00		0.00E+00	33	1.60E-19
1,3,5-TRIMETHYLBENZENE	108-67-8		0.00E+00		0.00E+00	71	8.14E-15
1,3-BUTADIENE	106-99-0		0.00E+00		0.00E+00		0.00E+00
1,4-DIOXANE	123-91-1		0.00E+00	119	6.99E-16	22000	1.08E-16
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		0.00E+00		0.00E+00		0.00E+00
2-NITROPHENOL	88-75-5		0.00E+00		0.00E+00	1920	2.39E-15
ACENAPHTHENE	83-32-9		0.00E+00	0.01	1.89E-08	5.8	1.67E-13
ACETALDEHYDE	75-07-0		0.00E+00		0.00E+00		0.00E+00
ACETONE	67-64-1		0.00E+00		0.00E+00	1500	9.03E-14
ACETONITRILE	75-05-8		0.00E+00		0.00E+00	12000	6.85E-15
ACROLEIN	107-02-8		0.00E+00	0.00152	8.36E-10	0.01	2.28E-09
ACRYLONITRILE	107-13-1		0.00E+00	1.2	8.03E-11	160	1.77E-12
ALUMINUM	7429-90-5	50	1.89E-08		0.00E+00	87	7.35E-12
AMMONIA	7664-41-7		0.00E+00		0.00E+00	19	1.74E-09
ANTHRACENE	120-12-7		0.00E+00	0.0572	1.53E-08	0.012	7.88E-11
ANTIMONY	7440-36-0	5	6.22E-13	2	1.55E-12	30	2.30E-15
ARSENIC	7440-38-2	18	2.79E-09	9.8	5.12E-09	5	3.46E-10

Table 56 - Aquatic Community ESQs: Skid Burn 183 Day Scenario							
Constituent	**CAS**	**Plant TRV**	**Aquatic Vegitation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
BARIUM	7440-39-3	500	4.33E-11		0.00E+00	4	1.32E-10
BENZ(A)ANTHRACENE	56-55-3		0.00E+00	0.108	1.73E-06	0.018	1.66E-09
BENZENE	71-43-2		0.00E+00	10	2.40E-11	370	1.11E-13
BENZO(A)PYRENE	50-32-8		0.00E+00	0.15	8.92E-06	0.015	5.47E-09
BENZO(B)FLUORANTHENE	205-99-2		0.00E+00	0.0272	2.21E-06	9.07	4.01E-13
BENZO(K)FLUORANTHENE	207-08-9		0.00E+00	0.24	3.21E-06		0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00		0.00E+00		0.00E+00
BERYLLIUM	7440-41-7	10	2.13E-09		0.00E+00	0.66	4.12E-11
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		0.00E+00	0.18	5.23E-05	16	1.44E-10
BUTYLBENZYLPHTHALATE	85-68-7		0.00E+00	10.9	9.23E-10	19	1.86E-12
CADMIUM	7440-43-9	4	3.12E-09	0.99	1.26E-08	0.25	6.66E-10
CARBON TETRACHLORIDE	56-23-5		0.00E+00	0.0642	8.09E-13	13.3	2.22E-15
CHLOROETHANE	75-00-3		0.00E+00		0.00E+00		0.00E+00
CHLOROFORM	67-66-3		0.00E+00	121	4.67E-16	1.8	2.47E-14
CHROMIUM	7440-47-3	1	1.15E-04	43.4	2.66E-06	85	1.43E-11
CHRYSENE	218-01-9		0.00E+00	0.166	6.53E-07		0.00E+00
COPPER	7440-50-8	70	1.30E-07	31.6	2.88E-07	9	2.89E-08
CROTONALDEHYDE	123-73-9		0.00E+00		0.00E+00		0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		0.00E+00	0.09	9.45E-11	2.6	8.80E-14
CYANIDE	57-12-5		0.00E+00	0.1	0.00E+00	5	1.47E-10

Table 56 - Aquatic Community ESQs: Skid Burn 183 Day Scenario							
Constituent	**CAS**	**Plant TRV**	**Aquatic Vegitation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
DIBENZ(A,H)ANTHRACENE	53-70-3		0.00E+00	0.033	9.45E-06		0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		0.00E+00		0.00E+00		0.00E+00
DIETHYL PHTHALATE	84-66-2		0.00E+00	0.6	5.54E-11	210	4.83E-14
DIMETHYL PHTHALATE	131-11-3		0.00E+00		0.00E+00	3	3.39E-12
DI-N-BUTYL PHTHALATE	84-74-2		0.00E+00	6.47	1.34E-09	19	7.30E-12
DI-N-OCTYL PHTHALATE	117-84-0		0.00E+00	40600	1.06E-10	22	3.85E-11
ETHYL ACRYLATE	140-88-5		0.00E+00		0.00E+00		0.00E+00
ETHYLBENZENE	100-41-4		0.00E+00	1.1	3.03E-11	90	2.08E-14
FLUORANTHENE	206-44-0		0.00E+00	0.423	2.33E-08	0.04	1.30E-10
FORMALDEHYDE	50-00-0		0.00E+00		0.00E+00		0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.02	0.00E+00	0.0003	0.00E+00
HEXANE, N-	110-54-3		0.00E+00	0.0396	8.69E-13	0.58	1.13E-14
HEXAVALENT CHROMIUM	18540-29-9	1	1.12E-14	43.4	2.57E-16	11	5.35E-17
HYDROGEN CHLORIDE	7647-01-0		0.00E+00		0.00E+00		0.00E+00
HYDROGEN CYANIDE	74-90-8		0.00E+00		0.00E+00		0.00E+00
HYDROGEN FLOURIDE	7664-39-3		0.00E+00		0.00E+00		0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		0.00E+00	0.017	2.89E-04	4.31	3.60E-11
LEAD	7439-92-1	50	1.54E-05	35.8	2.15E-05	2.5	3.45E-07
MANGANESE	7439-96-5	220	8.45E-12	460	4.04E-12	120	2.38E-13

Table 56 - Aquatic Community ESQs: Skid Burn 183 Day Scenario							
Constituent	**CAS**	**Plant TRV**	**Aquatic Vegitation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
MERCURIC CHLORIDE	7487-94-7		0.00E+00		0.00E+00		0.00E+00
MERCURY	7439-97-6		0.00E+00		0.00E+00		0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	1.37	0.00E+00	16	0.00E+00
METHYL CHLORIDE	74-87-3		0.00E+00		0.00E+00		0.00E+00
METHYL ETHYL KETONE	78-93-3		0.00E+00		0.00E+00	14000	2.02E-15
METHYL ISOBUTYL KETONE	108-10-1		0.00E+00	25.1	5.91E-14	170	1.82E-14
METHYL MERCURY	22967-92-6		0.00E+00		0.00E+00		0.00E+00
METHYLENE CHLORIDE	75-09-2		0.00E+00		0.00E+00	98.1	2.96E-13
METHYLNAPHTHALENE, 2-	91-57-6		0.00E+00	0.02	1.03E-08	4.7	4.43E-13
MOLYBDENUM	7439-98-7	2	7.34E-10		0.00E+00	73	1.01E-12
M-XYLENE	108-38-3	10	6.07E-12	0.0252	2.41E-09	1.8	2.25E-12
NAPHTHALENE	91-20-3		0.00E+00	0.18	5.58E-08	1.1	1.48E-10
O-XYLENE	95-47-6		0.00E+00		0.00E+00	350	6.23E-15
PHENANTHRENE	85-01-8		0.00E+00	0.2	3.83E-08	0.4	1.84E-11
PHENOL	108-95-2	70	4.49E-12	0.42	7.49E-10	4	1.05E-11
PHOSPHOROUS	7723-14-0		0.00E+00		0.00E+00		0.00E+00
PROPIONALDEHYDE	123-38-6		0.00E+00		0.00E+00		0.00E+00
P-XYLENE	106-42-3	10	6.31E-12	0.0252	2.50E-09	1.8	2.33E-12
PYRENE	129-00-0		0.00E+00	0.195	1.14E-07	0.025	4.27E-10

Table 56 - Aquatic Community ESQs: Skid Burn 183 Day Scenario							
Constituent	**CAS**	**Plant TRV**	**Aquatic Vegitation ESQ**	**Benthic Invertebrates TRV**	**Benthic Invertebrates ESQ**	**Freshwater TRV**	**Fish ESQ**
		ug/L	unitless	mg/kg sed	unitless	ug/L	unitless
PYRIDINE	110-86-1		0.00E+00	106	9.04E-14	2380	1.40E-15
SILVER	7440-22-4	2	4.37E-10	1	8.75E-10	3.2	3.29E-11
STRONTIUM	7440-24-6		0.00E+00		0.00E+00	1500	8.53E-14
STYRENE	100-42-5	300	7.48E-13	0.559	4.02E-10	72	1.75E-13
SULFURIC ACID	7664-93-9		0.00E+00		0.00E+00		0.00E+00
TETRACHLOROETHYLENE	127-18-4		0.00E+00	0.468	2.07E-13	111	2.30E-16
TETRAHYDROFURAN	109-99-9		0.00E+00		0.00E+00		0.00E+00
THALLIUM	7440-28-0	1	0.00E+00		0.00E+00	0.8	0.00E+00
TIN	7440-31-5	50	3.94E-10		0.00E+00	73	1.08E-12
TOLUENE	108-88-3	200	1.65E-12	1220	2.71E-13	2	1.77E-11
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.1	0.00E+00	21	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		0.00E+00		0.00E+00	11000	1.76E-18
ZINC	7440-66-6	50	7.90E-10	121	3.26E-10	120	5.31E-12
DIOXIN TEQ (1)							
TOTAL ESQ			**1.31E-04**		**3.92E-04**		**3.88E-07**
(1): See Appendix B for dioxin calculations							

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.37E-19	1.37E-20
1,2,4-TRIMETHYLBENZENE	95-63-6		5.59E-22	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		6.11E-17	0.00E+00
1,3-BUTADIENE	106-99-0		2.16E-17	0.00E+00
1,4-DIOXANE	123-91-1		5.52E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		4.77E-20	4.77E-20
2-NITROPHENOL	88-75-5		4.85E-16	0.00E+00
ACENAPHTHENE	83-32-9		1.02E-16	0.00E+00
ACETALDEHYDE	75-07-0		3.74E-14	0.00E+00
ACETONE	67-64-1		5.93E-14	0.00E+00
ACETONITRILE	75-05-8		8.69E-15	0.00E+00
ACROLEIN	107-02-8		2.41E-15	0.00E+00
ACRYLONITRILE	107-13-1		2.05E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	6.76E-14	6.16E-16
AMMONIA	7664-41-7		3.49E-12	0.00E+00
ANTHRACENE	120-12-7		9.99E-17	0.00E+00
ANTIMONY	7440-36-0		4.79E-17	0.00E+00
ARSENIC	7440-38-2	2.5	3.14E-13	1.26E-13
BARIUM	7440-39-3	20.8	2.82E-13	1.36E-14
BENZ(A)ANTHRACENE	56-55-3		2.50E-13	0.00E+00
BENZENE	71-43-2		3.95E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		8.83E-13	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		4.00E-14	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.13E-13	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		1.68E-14	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	2.48E-11	2.26E-11

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		3.73E-15	0.00E+00
CADMIUM	7440-43-9	1.45	4.25E-13	2.93E-13
CARBON TETRACHLORIDE	56-23-5		6.11E-18	0.00E+00
CHLOROETHANE	75-00-3		1.73E-17	0.00E+00
CHLOROFORM	67-66-3		1.54E-17	0.00E+00
CHROMIUM	7440-47-3	1	3.01E-10	3.01E-10
CHRYSENE	218-01-9		1.34E-13	0.00E+00
COPPER	7440-50-8	47	2.65E-10	5.63E-12
CROTONALDEHYDE	123-73-9		6.84E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.42E-17	0.00E+00
CYANIDE	57-12-5		7.77E-14	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.31E-13	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.60E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		4.37E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		3.34E-14	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		6.57E-14	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.34E-13	0.00E+00
ETHYL ACRYLATE	140-88-5		1.71E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.98E-16	0.00E+00
FLUORANTHENE	206-44-0		5.50E-16	0.00E+00
FORMALDEHYDE	50-00-0		7.08E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		6.91E-19	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		6.95E-20	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.16E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		8.87E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.27E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.27E-12	0.00E+00

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	CAS	Bird TRV	Canada Goose Dose	Canada Goose ESQ
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	2.61E-09	2.31E-09
MANGANESE	7439-96-5	997	1.27E-14	1.28E-17
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		7.23E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.17E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		9.75E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		1.50E-14	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		2.20E-16	0.00E+00
MOLYBDENUM	7439-98-7	3.5	7.76E-15	2.22E-15
M-XYLENE	108-38-3		2.73E-15	0.00E+00
NAPHTHALENE	91-20-3		8.01E-12	0.00E+00
O-XYLENE	95-47-6		1.49E-15	0.00E+00
PHENANTHRENE	85-01-8		7.78E-16	0.00E+00
PHENOL	108-95-2		4.44E-15	0.00E+00
PHOSPHOROUS	7723-14-0		1.78E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		2.49E-15	0.00E+00
P-XYLENE	106-42-3		2.83E-15	0.00E+00
PYRENE	129-00-0		1.13E-15	0.00E+00
PYRIDINE	110-86-1		3.53E-16	0.00E+00
SILVER	7440-22-4	4.2	1.17E-14	2.79E-15
STRONTIUM	7440-24-6		1.35E-14	0.00E+00
STYRENE	100-42-5		1.33E-15	0.00E+00
SULFURIC ACID	7664-93-9		4.59E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.70E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		2.05E-16	0.00E+00

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	8.35E-15	1.23E-15
TOLUENE	108-88-3		2.53E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.05E-18	0.00E+00
ZINC	7440-66-6	14.5	2.62E-12	1.81E-13
DIOXIN TEQ (1)				4.39E-15
Cumulative ESQ				**2.64E-09**
(1): See Appendix B for dioxin calculations				

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.00E-11	1.00E-12
1,2,4-TRIMETHYLBENZENE	95-63-6		1.64E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.21E-11	0.00E+00
1,3-BUTADIENE	106-99-0		3.19E-13	0.00E+00
1,4-DIOXANE	123-91-1		5.21E-13	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.24E-11	1.24E-11
2-NITROPHENOL	88-75-5		5.61E-12	0.00E+00
ACENAPHTHENE	83-32-9		1.64E-10	0.00E+00
ACETALDEHYDE	75-07-0		6.18E-12	0.00E+00
ACETONE	67-64-1		7.85E-11	0.00E+00
ACETONITRILE	75-05-8		1.43E-12	0.00E+00
ACROLEIN	107-02-8		1.10E-12	0.00E+00
ACRYLONITRILE	107-13-1		3.45E-10	0.00E+00
ALUMINUM	7429-90-5	109.7	8.20E-07	7.47E-09
AMMONIA	7664-41-7		1.93E-09	0.00E+00
ANTHRACENE	120-12-7		7.57E-10	0.00E+00
ANTIMONY	7440-36-0		2.76E-12	0.00E+00
ARSENIC	7440-38-2	2.5	4.38E-08	1.75E-08
BARIUM	7440-39-3	20.8	1.91E-08	9.18E-10
BENZ(A)ANTHRACENE	56-55-3		1.63E-07	0.00E+00
BENZENE	71-43-2		2.61E-10	0.00E+00
BENZO(A)PYRENE	50-32-8		1.16E-06	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		5.23E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		6.70E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		1.85E-08	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	2.12E-05	1.93E-05

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		8.72E-09	0.00E+00
CADMIUM	7440-43-9	1.45	1.15E-08	7.90E-09
CARBON TETRACHLORIDE	56-23-5		5.01E-14	0.00E+00
CHLOROETHANE	75-00-3		1.23E-13	0.00E+00
CHLOROFORM	67-66-3		6.51E-14	0.00E+00
CHROMIUM	7440-47-3	1	1.00E-04	1.00E-04
CHRYSENE	218-01-9		9.43E-08	0.00E+00
COPPER	7440-50-8	47	8.23E-06	1.75E-07
CROTONALDEHYDE	123-73-9		9.69E-12	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		7.37E-12	0.00E+00
CYANIDE	57-12-5		8.50E-14	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		2.71E-07	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.31E-14	0.00E+00
DIETHYL PHTHALATE	84-66-2		3.38E-11	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.42E-10	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		7.66E-09	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.43E-02	0.00E+00
ETHYL ACRYLATE	140-88-5		1.11E-14	0.00E+00
ETHYLBENZENE	100-41-4		2.89E-11	0.00E+00
FLUORANTHENE	206-44-0		8.55E-09	0.00E+00
FORMALDEHYDE	50-00-0		5.41E-10	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		2.98E-14	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		9.70E-15	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		2.37E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.66E-10	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		7.02E-12	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		4.27E-06	0.00E+00

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	6.72E-04	5.95E-04
MANGANESE	7439-96-5	997	1.63E-09	1.63E-12
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		3.13E-13	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.74E-11	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		2.26E-12	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		3.97E-11	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.78E-10	0.00E+00
MOLYBDENUM	7439-98-7	3.5	1.27E-09	3.63E-10
M-XYLENE	108-38-3		5.78E-11	0.00E+00
NAPHTHALENE	91-20-3		2.06E-08	0.00E+00
O-XYLENE	95-47-6		3.18E-11	0.00E+00
PHENANTHRENE	85-01-8		6.64E-09	0.00E+00
PHENOL	108-95-2		2.73E-10	0.00E+00
PHOSPHOROUS	7723-14-0		1.92E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		3.11E-12	0.00E+00
P-XYLENE	106-42-3		6.01E-11	0.00E+00
PYRENE	129-00-0		1.93E-08	0.00E+00
PYRIDINE	110-86-1		8.30E-12	0.00E+00
SILVER	7440-22-4	4.2	7.59E-10	1.81E-10
STRONTIUM	7440-24-6		3.88E-09	0.00E+00
STYRENE	100-42-5		1.95E-10	0.00E+00
SULFURIC ACID	7664-93-9		9.19E-08	0.00E+00
TETRACHLOROETHYLENE	127-18-4		8.40E-14	0.00E+00
TETRAHYDROFURAN	109-99-9		2.12E-13	0.00E+00

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	1.71E-08	2.51E-09
TOLUENE	108-88-3		3.19E-10	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.95E-14	0.00E+00
ZINC	7440-66-6	14.5	3.81E-08	2.63E-09
DIOXIN TEQ (1)				9.60E-07
Cumulative ESQ				**7.15E-04**
(1): See Appendix B for dioxin calculations				

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	CAS	Bird TRV	Great Blue Heron Dose	Great Blue Heron ESQ
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.10E-16	1.10E-17
1,2,4-TRIMETHYLBENZENE	95-63-6		4.74E-22	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		5.19E-17	0.00E+00
1,3-BUTADIENE	106-99-0		1.83E-17	0.00E+00
1,4-DIOXANE	123-91-1		2.13E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.20E-14	1.20E-14
2-NITROPHENOL	88-75-5		4.12E-16	0.00E+00
ACENAPHTHENE	83-32-9		8.68E-17	0.00E+00
ACETALDEHYDE	75-07-0		3.18E-14	0.00E+00
ACETONE	67-64-1		1.70E-14	0.00E+00
ACETONITRILE	75-05-8		7.38E-15	0.00E+00
ACROLEIN	107-02-8		2.05E-15	0.00E+00
ACRYLONITRILE	107-13-1		4.91E-12	0.00E+00
ALUMINUM	7429-90-5	109.7	6.68E-13	6.09E-15
AMMONIA	7664-41-7		2.96E-12	0.00E+00
ANTHRACENE	120-12-7		8.48E-17	0.00E+00
ANTIMONY	7440-36-0		9.99E-16	0.00E+00
ARSENIC	7440-38-2	2.5	7.10E-11	2.84E-11
BARIUM	7440-39-3	20.8	1.20E-10	5.77E-12
BENZ(A)ANTHRACENE	56-55-3		5.69E-11	0.00E+00
BENZENE	71-43-2		3.70E-15	0.00E+00
BENZO(A)PYRENE	50-32-8		1.84E-10	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		5.40E-12	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.06E-10	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		6.02E-13	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	9.06E-10	8.24E-10

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		3.17E-15	0.00E+00
CADMIUM	7440-43-9	1.45	5.42E-11	3.74E-11
CARBON TETRACHLORIDE	56-23-5		3.21E-16	0.00E+00
CHLOROETHANE	75-00-3		1.47E-17	0.00E+00
CHLOROFORM	67-66-3		6.12E-17	0.00E+00
CHROMIUM	7440-47-3	1	5.46E-13	5.46E-13
CHRYSENE	218-01-9		3.23E-11	0.00E+00
COPPER	7440-50-8	47	6.62E-08	1.41E-09
CROTONALDEHYDE	123-73-9		6.41E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.05E-17	0.00E+00
CYANIDE	57-12-5		3.30E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		2.11E-11	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.36E-18	0.00E+00
DIETHYL PHTHALATE	84-66-2		9.10E-16	0.00E+00
DIMETHYL PHTHALATE	131-11-3		9.12E-16	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		1.24E-14	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		1.55E-08	0.00E+00
ETHYL ACRYLATE	140-88-5		1.45E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.68E-16	0.00E+00
FLUORANTHENE	206-44-0		4.67E-16	0.00E+00
FORMALDEHYDE	50-00-0		8.90E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		5.87E-19	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		4.23E-17	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		1.84E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.53E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.08E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.94E-10	0.00E+00

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	1.05E-10	9.30E-11
MANGANESE	7439-96-5	997	8.24E-13	8.26E-16
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		6.14E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3		3.47E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		4.05E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		2.43E-13	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.87E-16	0.00E+00
MOLYBDENUM	7439-98-7	3.5	2.70E-13	7.71E-14
M-XYLENE	108-38-3		1.09E-12	0.00E+00
NAPHTHALENE	91-20-3		4.95E-12	0.00E+00
O-XYLENE	95-47-6		5.86E-13	0.00E+00
PHENANTHRENE	85-01-8		6.61E-16	0.00E+00
PHENOL	108-95-2		3.77E-15	0.00E+00
PHOSPHOROUS	7723-14-0		1.51E-16	0.00E+00
PROPIONALDEHYDE	123-38-6		2.12E-15	0.00E+00
P-XYLENE	106-42-3		1.13E-12	0.00E+00
PYRENE	129-00-0		9.59E-16	0.00E+00
PYRIDINE	110-86-1		3.00E-16	0.00E+00
SILVER	7440-22-4	4.2	3.33E-12	7.92E-13
STRONTIUM	7440-24-6		2.77E-12	0.00E+00
STYRENE	100-42-5		1.13E-15	0.00E+00
SULFURIC ACID	7664-93-9		3.90E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.29E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		1.74E-16	0.00E+00

Table 57 - Aquatic Avian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	8.49E-11	1.25E-11
TOLUENE	108-88-3		3.17E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.74E-18	0.00E+00
ZINC	7440-66-6	14.5	4.71E-10	3.25E-11
DIOXIN TEQ (1)				8.61E-10
Cumulative ESQ				**3.30E-09**
(1): See Appendix B for dioxin calculations				

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.65E-15	7.95E-17
1,2,4-TRIMETHYLBENZENE	95-63-6		2.75E-19	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.02E-14	0.00E+00
1,3-BUTADIENE	106-99-0		6.15E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	3.73E-15	2.67E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.05E-14	6.16E-15
2-NITROPHENOL	88-75-5		1.12E-14	0.00E+00
ACENAPHTHENE	83-32-9		2.71E-13	0.00E+00
ACETALDEHYDE	75-07-0		1.58E-13	0.00E+00
ACETONE	67-64-1	2.8	4.67E-13	1.67E-13
ACETONITRILE	75-05-8		3.68E-14	0.00E+00
ACROLEIN	107-02-8		1.14E-14	0.00E+00
ACRYLONITRILE	107-13-1		1.78E-12	0.00E+00
ALUMINUM	7429-90-5	0.293	1.36E-09	4.63E-09
AMMONIA	7664-41-7		1.70E-11	0.00E+00
ANTHRACENE	120-12-7		1.25E-12	0.00E+00
ANTIMONY	7440-36-0	0.019	4.85E-15	2.55E-13
ARSENIC	7440-38-2	0.019	7.40E-11	3.89E-09
BARIUM	7440-39-3	1.5	3.33E-11	2.22E-11
BENZ(A)ANTHRACENE	56-55-3		2.70E-10	0.00E+00
BENZENE	71-43-2	4	6.68E-13	1.67E-13
BENZO(A)PYRENE	50-32-8	0.15	1.93E-09	1.29E-08
BENZO(B)FLUORANTHENE	205-99-2		8.66E-11	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.11E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	3.07E-11	1.62E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.37E-08	5.49E-09
BUTYLBENZYLPHTHALATE	85-68-7		1.45E-11	0.00E+00

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
CADMIUM	7440-43-9	0.271	2.15E-11	7.95E-11
CARBON TETRACHLORIDE	56-23-5	4.5	1.13E-16	2.51E-17
CHLOROETHANE	75-00-3		2.72E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	1.93E-16	4.59E-17
CHROMIUM	7440-47-3	768	1.68E-07	2.19E-10
CHRYSENE	218-01-9		1.57E-10	0.00E+00
COPPER	7440-50-8	4.3	1.52E-08	3.54E-09
CROTONALDEHYDE	123-73-9		5.31E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.23E-14	0.00E+00
CYANIDE	57-12-5	18.1	3.08E-13	1.70E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		4.49E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		4.45E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	8.07E-14	1.16E-16
DIMETHYL PHTHALATE	131-11-3	3500	4.40E-13	1.26E-16
DI-N-BUTYL PHTHALATE	84-74-2	83	1.30E-11	1.56E-13
DI-N-OCTYL PHTHALATE	117-84-0	9780	6.20E-09	6.34E-13
ETHYL ACRYLATE	140-88-5		2.52E-17	0.00E+00
ETHYLBENZENE	100-41-4		4.87E-14	0.00E+00
FLUORANTHENE	206-44-0		1.42E-11	0.00E+00
FORMALDEHYDE	50-00-0	6.4	4.30E-12	6.72E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		5.21E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.64E-17	1.78E-17
HYDROGEN CHLORIDE	7647-01-0		8.57E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		3.79E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		6.19E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		7.06E-09	0.00E+00
LEAD	7439-92-1	2.24	1.13E-06	5.04E-07
MANGANESE	7439-96-5	25	2.77E-12	1.11E-13

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		8.06E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	9.51E-14	1.91E-16
METHYL ISOBUTYL KETONE	108-10-1	7	9.07E-15	1.30E-15
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.52E-13	9.51E-14
METHYLNAPHTHALENE, 2-	91-57-6		2.97E-13	0.00E+00
MOLYBDENUM	7439-98-7	0.04	2.14E-12	5.35E-11
M-XYLENE	108-38-3		1.09E-13	0.00E+00
NAPHTHALENE	91-20-3	2.5	8.41E-11	3.36E-11
O-XYLENE	95-47-6		5.98E-14	0.00E+00
PHENANTHRENE	85-01-8		1.10E-11	0.00E+00
PHENOL	108-95-2		4.69E-13	0.00E+00
PHOSPHOROUS	7723-14-0		3.25E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		1.50E-14	0.00E+00
P-XYLENE	106-42-3		1.13E-13	0.00E+00
PYRENE	129-00-0		3.20E-11	0.00E+00
PYRIDINE	110-86-1		1.52E-14	0.00E+00
SILVER	7440-22-4	14	1.31E-12	9.32E-14
STRONTIUM	7440-24-6	74	6.48E-12	8.76E-14
STYRENE	100-42-5		3.28E-13	0.00E+00
SULFURIC ACID	7664-93-9		3.34E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.50E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		1.16E-15	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	2.83E-11	7.87E-12
TOLUENE	108-88-3	3.9	6.78E-13	1.74E-13

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		5.70E-17	0.00E+00
ZINC	7440-66-6	44.9	7.92E-11	1.76E-12
DIOXIN TEQ (1)				2.08E-08
CUMULATIVE ESQ				**5.55E-07**
(1): See Appendix B for dioxin calculations				

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		4.47E-10	1.34E-11
1,2,4-TRIMETHYLBENZENE	95-63-6		1.92E-16	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.41E-11	0.00E+00
1,3-BUTADIENE	106-99-0		3.73E-13	0.00E+00
1,4-DIOXANE	123-91-1	0.14	2.53E-13	1.81E-12
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.69E-11	5.07E-12
2-NITROPHENOL	88-75-5		6.55E-12	0.00E+00
ACENAPHTHENE	83-32-9		1.91E-10	0.00E+00
ACETALDEHYDE	75-07-0		7.23E-12	0.00E+00
ACETONE	67-64-1	2.8	3.88E-11	1.39E-11
ACETONITRILE	75-05-8		1.68E-12	0.00E+00
ACROLEIN	107-02-8		1.29E-12	0.00E+00
ACRYLONITRILE	107-13-1		1.96E-10	0.00E+00
ALUMINUM	7429-90-5	0.293	9.58E-07	3.27E-06
AMMONIA	7664-41-7		2.26E-09	0.00E+00
ANTHRACENE	120-12-7		8.84E-10	0.00E+00
ANTIMONY	7440-36-0	0.019	3.17E-12	1.67E-10
ARSENIC	7440-38-2	0.019	5.34E-08	2.81E-06
BARIUM	7440-39-3	1.5	2.21E-08	1.47E-08
BENZ(A)ANTHRACENE	56-55-3		2.04E-07	0.00E+00
BENZENE	71-43-2	4	2.69E-10	6.72E-11
BENZO(A)PYRENE	50-32-8	0.15	1.36E-06	9.07E-06
BENZO(B)FLUORANTHENE	205-99-2		6.63E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		8.50E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	2.26E-08	1.19E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	7.00E-04	2.80E-04
BUTYLBENZYLPHTHALATE	85-68-7		1.02E-08	0.00E+00

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
CADMIUM	7440-43-9	0.271	1.45E-08	5.36E-08
CARBON TETRACHLORIDE	56-23-5	4.5	8.91E-14	1.98E-14
CHLOROETHANE	75-00-3		1.44E-13	0.00E+00
CHLOROFORM	67-66-3	4.2	7.21E-14	1.72E-14
CHROMIUM	7440-47-3	768	1.17E-04	1.52E-07
CHRYSENE	218-01-9		1.18E-07	0.00E+00
COPPER	7440-50-8	4.3	9.48E-06	2.21E-06
CROTONALDEHYDE	123-73-9		6.16E-12	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		8.61E-12	0.00E+00
CYANIDE	57-12-5	18.1	1.22E-13	6.72E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		3.44E-07	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.69E-14	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	3.75E-11	5.38E-14
DIMETHYL PHTHALATE	131-11-3	3500	1.36E-10	3.89E-14
DI-N-BUTYL PHTHALATE	84-74-2	83	1.17E-08	1.41E-10
DI-N-OCTYL PHTHALATE	117-84-0	9780	7.56E-01	7.73E-05
ETHYL ACRYLATE	140-88-5		1.30E-14	0.00E+00
ETHYLBENZENE	100-41-4		3.38E-11	0.00E+00
FLUORANTHENE	206-44-0		9.99E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	3.20E-10	5.01E-11
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		3.48E-14	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.13E-14	1.23E-14
HYDROGEN CHLORIDE	7647-01-0		3.39E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.94E-10	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		8.20E-12	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		5.42E-06	0.00E+00
LEAD	7439-92-1	2.24	8.08E-04	3.61E-04
MANGANESE	7439-96-5	25	1.89E-09	7.55E-11

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		3.66E-13	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	1.02E-11	2.06E-14
METHYL ISOBUTYL KETONE	108-10-1	7	1.98E-12	2.82E-13
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	3.30E-11	2.06E-11
METHYLNAPHTHALENE, 2-	91-57-6		2.08E-10	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.49E-09	3.71E-08
M-XYLENE	108-38-3		1.57E-10	0.00E+00
NAPHTHALENE	91-20-3	2.5	1.49E-08	5.95E-09
O-XYLENE	95-47-6		8.62E-11	0.00E+00
PHENANTHRENE	85-01-8		7.76E-09	0.00E+00
PHENOL	108-95-2		3.18E-10	0.00E+00
PHOSPHOROUS	7723-14-0		2.24E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		3.64E-12	0.00E+00
P-XYLENE	106-42-3		1.63E-10	0.00E+00
PYRENE	129-00-0		2.26E-08	0.00E+00
PYRIDINE	110-86-1		9.70E-12	0.00E+00
SILVER	7440-22-4	14	9.03E-10	6.45E-11
STRONTIUM	7440-24-6	74	4.53E-09	6.12E-11
STYRENE	100-42-5		2.27E-10	0.00E+00
SULFURIC ACID	7664-93-9		1.07E-07	0.00E+00
TETRACHLOROETHYLENE	127-18-4		9.81E-14	0.00E+00
TETRAHYDROFURAN	109-99-9		2.48E-13	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	1.99E-08	5.54E-09
TOLUENE	108-88-3	3.9	3.64E-10	9.35E-11

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		3.44E-14	0.00E+00
ZINC	7440-66-6	44.9	4.28E-08	9.54E-10
DIOXIN TEQ (1)				6.16E-05
CUMULATIVE ESQ				**7.97E-04**
(1): See Appendix B for dioxin calculations				

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		6.94E-12	2.08E-13
1,2,4-TRIMETHYLBENZENE	95-63-6		5.65E-19	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		4.16E-14	0.00E+00
1,3-BUTADIENE	106-99-0		1.18E-15	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.61E-15	1.15E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		7.99E-14	2.40E-14
2-NITROPHENOL	88-75-5		2.13E-14	0.00E+00
ACENAPHTHENE	83-32-9		5.61E-13	0.00E+00
ACETALDEHYDE	75-07-0		1.79E-13	0.00E+00
ACETONE	67-64-1	2.8	1.51E-13	5.39E-14
ACETONITRILE	75-05-8		4.14E-14	0.00E+00
ACROLEIN	107-02-8		1.39E-14	0.00E+00
ACRYLONITRILE	107-13-1		6.00E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	2.81E-09	9.61E-09
AMMONIA	7664-41-7		2.13E-11	0.00E+00
ANTHRACENE	120-12-7		2.59E-12	0.00E+00
ANTIMONY	7440-36-0	0.019	9.30E-15	4.90E-13
ARSENIC	7440-38-2	0.019	1.89E-10	9.97E-09
BARIUM	7440-39-3	1.5	6.51E-11	4.34E-11
BENZ(A)ANTHRACENE	56-55-3		7.91E-10	0.00E+00
BENZENE	71-43-2	4	8.61E-13	2.15E-13
BENZO(A)PYRENE	50-32-8	0.15	4.06E-09	2.70E-08
BENZO(B)FLUORANTHENE	205-99-2		2.63E-10	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.37E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	7.99E-11	4.21E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.08E-05	4.31E-06
BUTYLBENZYLPHTHALATE	85-68-7		2.99E-11	0.00E+00

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
CADMIUM	7440-43-9	0.271	6.34E-11	2.34E-10
CARBON TETRACHLORIDE	56-23-5	4.5	7.13E-16	1.59E-16
CHLOROETHANE	75-00-3		4.94E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	3.37E-16	8.03E-17
CHROMIUM	7440-47-3	768	3.45E-07	4.50E-10
CHRYSENE	218-01-9		4.52E-10	0.00E+00
COPPER	7440-50-8	4.3	2.97E-08	6.91E-09
CROTONALDEHYDE	123-73-9		2.62E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		2.53E-14	0.00E+00
CYANIDE	57-12-5	18.1	3.27E-13	1.81E-14
DIBENZ(A,H)ANTHRACENE	53-70-3		1.36E-09	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		8.57E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.37E-13	1.97E-16
DIMETHYL PHTHALATE	131-11-3	3500	4.94E-13	1.41E-16
DI-N-BUTYL PHTHALATE	84-74-2	83	7.09E-11	8.55E-13
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.18E-02	1.20E-06
ETHYL ACRYLATE	140-88-5		4.53E-17	0.00E+00
ETHYLBENZENE	100-41-4		9.99E-14	0.00E+00
FLUORANTHENE	206-44-0		2.93E-11	0.00E+00
FORMALDEHYDE	50-00-0	6.4	2.66E-12	4.15E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		1.05E-16	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	3.35E-17	3.64E-17
HYDROGEN CHLORIDE	7647-01-0		9.10E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		4.30E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		7.74E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.15E-08	0.00E+00
LEAD	7439-92-1	2.24	2.71E-06	1.21E-06
MANGANESE	7439-96-5	25	5.56E-12	2.22E-13

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.38E-15	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	3.91E-14	7.88E-17
METHYL ISOBUTYL KETONE	108-10-1	7	8.15E-15	1.16E-15
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.12E-13	6.97E-14
METHYLNAPHTHALENE, 2-	91-57-6		6.12E-13	0.00E+00
MOLYBDENUM	7439-98-7	0.04	4.39E-12	1.10E-10
M-XYLENE	108-38-3		1.65E-12	0.00E+00
NAPHTHALENE	91-20-3	2.5	4.17E-11	1.67E-11
O-XYLENE	95-47-6		9.06E-13	0.00E+00
PHENANTHRENE	85-01-8		2.27E-11	0.00E+00
PHENOL	108-95-2		9.52E-13	0.00E+00
PHOSPHOROUS	7723-14-0		6.65E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		2.11E-14	0.00E+00
P-XYLENE	106-42-3		1.71E-12	0.00E+00
PYRENE	129-00-0		6.62E-11	0.00E+00
PYRIDINE	110-86-1		2.99E-14	0.00E+00
SILVER	7440-22-4	14	2.90E-12	2.07E-13
STRONTIUM	7440-24-6	74	1.33E-11	1.80E-13
STYRENE	100-42-5		6.72E-13	0.00E+00
SULFURIC ACID	7664-93-9		5.08E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		2.99E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		1.59E-15	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	5.85E-11	1.63E-11
TOLUENE	108-88-3	3.9	1.29E-12	3.31E-13

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.10E-16	0.00E+00
ZINC	7440-66-6	44.9	1.42E-10	3.16E-12
DIOXIN TEQ (1)				7.73E-07
CUMULATIVE ESQ				**7.55E-06**
(1): See Appendix B for dioxin calculations				

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.64E-14	4.91E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		1.49E-19	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.10E-14	0.00E+00
1,3-BUTADIENE	106-99-0		3.23E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	4.73E-16	3.38E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		5.91E-14	1.77E-14
2-NITROPHENOL	88-75-5		5.85E-15	0.00E+00
ACENAPHTHENE	83-32-9		1.48E-13	0.00E+00
ACETALDEHYDE	75-07-0		6.63E-14	0.00E+00
ACETONE	67-64-1	2.8	3.34E-14	1.19E-14
ACETONITRILE	75-05-8		1.54E-14	0.00E+00
ACROLEIN	107-02-8		4.90E-15	0.00E+00
ACRYLONITRILE	107-13-1		1.24E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	7.39E-10	2.52E-09
AMMONIA	7664-41-7		7.40E-12	0.00E+00
ANTHRACENE	120-12-7		6.83E-13	0.00E+00
ANTIMONY	7440-36-0	0.019	2.44E-15	1.29E-13
ARSENIC	7440-38-2	0.019	3.96E-11	2.08E-09
BARIUM	7440-39-3	1.5	1.70E-11	1.13E-11
BENZ(A)ANTHRACENE	56-55-3		1.46E-10	0.00E+00
BENZENE	71-43-2	4	1.95E-13	4.87E-14
BENZO(A)PYRENE	50-32-8	0.15	1.05E-09	6.98E-09
BENZO(B)FLUORANTHENE	205-99-2		4.71E-11	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		6.04E-10	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.67E-11	8.77E-11
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	2.72E-08	1.09E-08
BUTYLBENZYLPHTHALATE	85-68-7		7.87E-12	0.00E+00

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
CADMIUM	7440-43-9	0.271	9.80E-12	3.61E-11
CARBON TETRACHLORIDE	56-23-5	4.5	4.57E-17	1.02E-17
CHLOROETHANE	75-00-3		1.39E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	5.18E-17	1.23E-17
CHROMIUM	7440-47-3	768	9.01E-08	1.17E-10
CHRYSENE	218-01-9		8.49E-11	0.00E+00
COPPER	7440-50-8	4.3	7.15E-09	1.66E-09
CROTONALDEHYDE	123-73-9		6.80E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		6.69E-15	0.00E+00
CYANIDE	57-12-5	18.1	1.26E-13	6.96E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		2.45E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.34E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	2.77E-14	3.98E-17
DIMETHYL PHTHALATE	131-11-3	3500	8.60E-14	2.46E-17
DI-N-BUTYL PHTHALATE	84-74-2	83	6.83E-12	8.23E-14
DI-N-OCTYL PHTHALATE	117-84-0	9780	1.32E-05	1.35E-09
ETHYL ACRYLATE	140-88-5		1.28E-17	0.00E+00
ETHYLBENZENE	100-41-4		2.64E-14	0.00E+00
FLUORANTHENE	206-44-0		7.71E-12	0.00E+00
FORMALDEHYDE	50-00-0	6.4	8.52E-13	1.33E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		2.80E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	8.84E-18	9.61E-18
HYDROGEN CHLORIDE	7647-01-0		3.51E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.59E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		2.69E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.85E-09	0.00E+00
LEAD	7439-92-1	2.24	6.02E-07	2.69E-07
MANGANESE	7439-96-5	25	1.46E-12	5.83E-14

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		4.00E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	8.86E-15	1.78E-17
METHYL ISOBUTYL KETONE	108-10-1	7	1.69E-15	2.41E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	2.47E-14	1.54E-14
METHYLNAPHTHALENE, 2-	91-57-6		1.61E-13	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.16E-12	2.90E-11
M-XYLENE	108-38-3		4.84E-14	0.00E+00
NAPHTHALENE	91-20-3	2.5	7.88E-12	3.15E-12
O-XYLENE	95-47-6		2.66E-14	0.00E+00
PHENANTHRENE	85-01-8		5.99E-12	0.00E+00
PHENOL	108-95-2		2.53E-13	0.00E+00
PHOSPHOROUS	7723-14-0		1.76E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		6.85E-15	0.00E+00
P-XYLENE	106-42-3		5.03E-14	0.00E+00
PYRENE	129-00-0		1.74E-11	0.00E+00
PYRIDINE	110-86-1		8.06E-15	0.00E+00
SILVER	7440-22-4	14	7.02E-13	5.01E-14
STRONTIUM	7440-24-6	74	3.52E-12	4.76E-14
STYRENE	100-42-5		1.78E-13	0.00E+00
SULFURIC ACID	7664-93-9		1.57E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		8.02E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		5.24E-16	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	1.54E-11	4.28E-12
TOLUENE	108-88-3	3.9	2.65E-13	6.79E-14

Table 58 - Aquatic Mammalian Receptor ESQs: Skid Burn Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.99E-17	0.00E+00
ZINC	7440-66-6	44.9	3.10E-11	6.90E-13
DIOXIN TEQ (1)				6.07E-08
CUMULATIVE ESQ				**3.55E-07**
(1): See Appendix B for dioxin calculations				

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		6.89E-20	6.89E-21
1,2,4-TRIMETHYLBENZENE	95-63-6		2.80E-22	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		3.06E-17	0.00E+00
1,3-BUTADIENE	106-99-0		1.08E-17	0.00E+00
1,4-DIOXANE	123-91-1		2.77E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.39E-20	2.39E-20
2-NITROPHENOL	88-75-5		2.43E-16	0.00E+00
ACENAPHTHENE	83-32-9		5.12E-17	0.00E+00
ACETALDEHYDE	75-07-0		1.88E-14	0.00E+00
ACETONE	67-64-1		2.97E-14	0.00E+00
ACETONITRILE	75-05-8		4.36E-15	0.00E+00
ACROLEIN	107-02-8		1.21E-15	0.00E+00
ACRYLONITRILE	107-13-1		1.03E-13	0.00E+00
ALUMINUM	7429-90-5	109.7	3.39E-14	3.09E-16
AMMONIA	7664-41-7		1.75E-12	0.00E+00
ANTHRACENE	120-12-7		5.01E-17	0.00E+00
ANTIMONY	7440-36-0		2.40E-17	0.00E+00
ARSENIC	7440-38-2	2.5	1.58E-13	6.30E-14
BARIUM	7440-39-3	20.8	1.41E-13	6.79E-15
BENZ(A)ANTHRACENE	56-55-3		1.25E-13	0.00E+00
BENZENE	71-43-2		1.98E-14	0.00E+00
BENZO(A)PYRENE	50-32-8		4.43E-13	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		2.01E-14	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		2.57E-13	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		8.41E-15	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.24E-11	1.13E-11

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		1.87E-15	0.00E+00
CADMIUM	7440-43-9	1.45	2.13E-13	1.47E-13
CARBON TETRACHLORIDE	56-23-5		3.06E-18	0.00E+00
CHLOROETHANE	75-00-3		8.65E-18	0.00E+00
CHLOROFORM	67-66-3		7.72E-18	0.00E+00
CHROMIUM	7440-47-3	1	1.51E-10	1.51E-10
CHRYSENE	218-01-9		6.72E-14	0.00E+00
COPPER	7440-50-8	47	1.33E-10	2.82E-12
CROTONALDEHYDE	123-73-9		3.43E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.21E-17	0.00E+00
CYANIDE	57-12-5		3.90E-14	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		6.59E-14	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		8.03E-19	0.00E+00
DIETHYL PHTHALATE	84-66-2		2.19E-15	0.00E+00
DIMETHYL PHTHALATE	131-11-3		1.68E-14	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		3.29E-14	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		6.71E-14	0.00E+00
ETHYL ACRYLATE	140-88-5		8.57E-19	0.00E+00
ETHYLBENZENE	100-41-4		9.92E-17	0.00E+00
FLUORANTHENE	206-44-0		2.76E-16	0.00E+00
FORMALDEHYDE	50-00-0		3.55E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		3.47E-19	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		3.48E-20	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		1.08E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		4.45E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		6.36E-15	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		6.35E-13	0.00E+00

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	1.31E-09	1.16E-09
MANGANESE	7439-96-5	997	6.39E-15	6.40E-18
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		3.62E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3		5.87E-15	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		4.89E-16	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		7.52E-15	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		1.10E-16	0.00E+00
MOLYBDENUM	7439-98-7	3.5	3.89E-15	1.11E-15
M-XYLENE	108-38-3		1.37E-15	0.00E+00
NAPHTHALENE	91-20-3		4.02E-12	0.00E+00
O-XYLENE	95-47-6		7.49E-16	0.00E+00
PHENANTHRENE	85-01-8		3.90E-16	0.00E+00
PHENOL	108-95-2		2.23E-15	0.00E+00
PHOSPHOROUS	7723-14-0		8.92E-17	0.00E+00
PROPIONALDEHYDE	123-38-6		1.25E-15	0.00E+00
P-XYLENE	106-42-3		1.42E-15	0.00E+00
PYRENE	129-00-0		5.66E-16	0.00E+00
PYRIDINE	110-86-1		1.77E-16	0.00E+00
SILVER	7440-22-4	4.2	5.87E-15	1.40E-15
STRONTIUM	7440-24-6		6.78E-15	0.00E+00
STYRENE	100-42-5		6.67E-16	0.00E+00
SULFURIC ACID	7664-93-9		2.30E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.35E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		1.03E-16	0.00E+00

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Canada Goose Dose**	**Canada Goose ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	4.19E-15	6.16E-16
TOLUENE	108-88-3		1.27E-14	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.03E-18	0.00E+00
ZINC	7440-66-6	14.5	1.31E-12	9.06E-14
DIOXIN TEQ (1)				2.20E-15
CUMULATIVE ESQ				**1.32E-09**
(1): See Appendix B for dioxin calculations				

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.01E-12	5.01E-13
1,2,4-TRIMETHYLBENZENE	95-63-6		8.24E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		6.05E-12	0.00E+00
1,3-BUTADIENE	106-99-0		1.60E-13	0.00E+00
1,4-DIOXANE	123-91-1		2.61E-13	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		6.24E-12	6.24E-12
2-NITROPHENOL	88-75-5		2.81E-12	0.00E+00
ACENAPHTHENE	83-32-9		8.20E-11	0.00E+00
ACETALDEHYDE	75-07-0		3.10E-12	0.00E+00
ACETONE	67-64-1		3.94E-11	0.00E+00
ACETONITRILE	75-05-8		7.19E-13	0.00E+00
ACROLEIN	107-02-8		5.53E-13	0.00E+00
ACRYLONITRILE	107-13-1		1.73E-10	0.00E+00
ALUMINUM	7429-90-5	109.7	4.11E-07	3.75E-09
AMMONIA	7664-41-7		9.68E-10	0.00E+00
ANTHRACENE	120-12-7		3.79E-10	0.00E+00
ANTIMONY	7440-36-0		1.38E-12	0.00E+00
ARSENIC	7440-38-2	2.5	2.19E-08	8.78E-09
BARIUM	7440-39-3	20.8	9.57E-09	4.60E-10
BENZ(A)ANTHRACENE	56-55-3		8.15E-08	0.00E+00
BENZENE	71-43-2		1.31E-10	0.00E+00
BENZO(A)PYRENE	50-32-8		5.82E-07	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		2.62E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.36E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		9.28E-09	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	1.06E-05	9.67E-06

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		4.37E-09	0.00E+00
CADMIUM	7440-43-9	1.45	5.74E-09	3.96E-09
CARBON TETRACHLORIDE	56-23-5		2.51E-14	0.00E+00
CHLOROETHANE	75-00-3		6.17E-14	0.00E+00
CHLOROFORM	67-66-3		3.27E-14	0.00E+00
CHROMIUM	7440-47-3	1	5.03E-05	5.03E-05
CHRYSENE	218-01-9		4.73E-08	0.00E+00
COPPER	7440-50-8	47	4.13E-06	8.78E-08
CROTONALDEHYDE	123-73-9		4.86E-12	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		3.70E-12	0.00E+00
CYANIDE	57-12-5		4.26E-14	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.36E-07	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.16E-14	0.00E+00
DIETHYL PHTHALATE	84-66-2		1.69E-11	0.00E+00
DIMETHYL PHTHALATE	131-11-3		7.11E-11	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		3.84E-09	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		7.16E-03	0.00E+00
ETHYL ACRYLATE	140-88-5		5.58E-15	0.00E+00
ETHYLBENZENE	100-41-4		1.45E-11	0.00E+00
FLUORANTHENE	206-44-0		4.29E-09	0.00E+00
FORMALDEHYDE	50-00-0		2.71E-10	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		1.50E-14	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		4.86E-15	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		1.19E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		8.34E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		3.52E-12	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.14E-06	0.00E+00

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	3.37E-04	2.98E-04
MANGANESE	7439-96-5	997	8.15E-10	8.18E-13
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.57E-13	0.00E+00
METHYL ETHYL KETONE	78-93-3		8.75E-12	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		1.13E-12	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		1.99E-11	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		8.95E-11	0.00E+00
MOLYBDENUM	7439-98-7	3.5	6.38E-10	1.82E-10
M-XYLENE	108-38-3		2.90E-11	0.00E+00
NAPHTHALENE	91-20-3		1.04E-08	0.00E+00
O-XYLENE	95-47-6		1.59E-11	0.00E+00
PHENANTHRENE	85-01-8		3.33E-09	0.00E+00
PHENOL	108-95-2		1.37E-10	0.00E+00
PHOSPHOROUS	7723-14-0		9.63E-12	0.00E+00
PROPIONALDEHYDE	123-38-6		1.56E-12	0.00E+00
P-XYLENE	106-42-3		3.01E-11	0.00E+00
PYRENE	129-00-0		9.70E-09	0.00E+00
PYRIDINE	110-86-1		4.16E-12	0.00E+00
SILVER	7440-22-4	4.2	3.81E-10	9.07E-11
STRONTIUM	7440-24-6		1.95E-09	0.00E+00
STYRENE	100-42-5		9.76E-11	0.00E+00
SULFURIC ACID	7664-93-9		4.61E-08	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.21E-14	0.00E+00
TETRAHYDROFURAN	109-99-9		1.06E-13	0.00E+00

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Mallard Duck Dose**	**Mallard Duck ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	8.56E-09	1.26E-09
TOLUENE	108-88-3		1.60E-10	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.48E-14	0.00E+00
ZINC	7440-66-6	14.5	1.91E-08	1.32E-09
DIOXIN TEQ (1)				4.81E-07
CUMULATIVE ESQ				**3.59E-04**
(1): See Appendix B for dioxin calculations				

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		5.49E-17	5.49E-18
1,2,4-TRIMETHYLBENZENE	95-63-6		2.38E-22	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.60E-17	0.00E+00
1,3-BUTADIENE	106-99-0		9.19E-18	0.00E+00
1,4-DIOXANE	123-91-1		1.07E-16	0.00E+00
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		6.04E-15	6.04E-15
2-NITROPHENOL	88-75-5		2.07E-16	0.00E+00
ACENAPHTHENE	83-32-9		4.35E-17	0.00E+00
ACETALDEHYDE	75-07-0		1.59E-14	0.00E+00
ACETONE	67-64-1		8.54E-15	0.00E+00
ACETONITRILE	75-05-8		3.70E-15	0.00E+00
ACROLEIN	107-02-8		1.03E-15	0.00E+00
ACRYLONITRILE	107-13-1		2.46E-12	0.00E+00
ALUMINUM	7429-90-5	109.7	3.35E-13	3.05E-15
AMMONIA	7664-41-7		1.48E-12	0.00E+00
ANTHRACENE	120-12-7		4.25E-17	0.00E+00
ANTIMONY	7440-36-0		5.01E-16	0.00E+00
ARSENIC	7440-38-2	2.5	3.56E-11	1.42E-11
BARIUM	7440-39-3	20.8	6.02E-11	2.89E-12
BENZ(A)ANTHRACENE	56-55-3		2.85E-11	0.00E+00
BENZENE	71-43-2		1.85E-15	0.00E+00
BENZO(A)PYRENE	50-32-8		9.23E-11	0.00E+00
BENZO(B)FLUORANTHENE	205-99-2		2.71E-12	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.31E-11	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7		3.02E-13	0.00E+00
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	1.1	4.54E-10	4.13E-10

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
BUTYLBENZYLPHTHALATE	85-68-7		1.59E-15	0.00E+00
CADMIUM	7440-43-9	1.45	2.72E-11	1.87E-11
CARBON TETRACHLORIDE	56-23-5		1.61E-16	0.00E+00
CHLOROETHANE	75-00-3		7.35E-18	0.00E+00
CHLOROFORM	67-66-3		3.07E-17	0.00E+00
CHROMIUM	7440-47-3	1	2.74E-13	2.74E-13
CHRYSENE	218-01-9		1.62E-11	0.00E+00
COPPER	7440-50-8	47	3.32E-08	7.06E-10
CROTONALDEHYDE	123-73-9		3.22E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.03E-17	0.00E+00
CYANIDE	57-12-5		1.65E-13	0.00E+00
DIBENZ(A,H)ANTHRACENE	53-70-3		1.06E-11	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		6.82E-19	0.00E+00
DIETHYL PHTHALATE	84-66-2		4.56E-16	0.00E+00
DIMETHYL PHTHALATE	131-11-3		4.57E-16	0.00E+00
DI-N-BUTYL PHTHALATE	84-74-2		6.24E-15	0.00E+00
DI-N-OCTYL PHTHALATE	117-84-0		7.78E-09	0.00E+00
ETHYL ACRYLATE	140-88-5		7.27E-19	0.00E+00
ETHYLBENZENE	100-41-4		8.42E-17	0.00E+00
FLUORANTHENE	206-44-0		2.34E-16	0.00E+00
FORMALDEHYDE	50-00-0		4.46E-13	0.00E+00
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		2.94E-19	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9		2.12E-17	0.00E+00
HYDROGEN CHLORIDE	7647-01-0		9.20E-24	0.00E+00
HYDROGEN CYANIDE	74-90-8		3.78E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		5.40E-15	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.47E-10	0.00E+00

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
LEAD	7439-92-1	1.13	5.27E-11	4.67E-11
MANGANESE	7439-96-5	997	4.13E-13	4.14E-16
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		3.08E-17	0.00E+00
METHYL ETHYL KETONE	78-93-3		1.74E-14	0.00E+00
METHYL ISOBUTYL KETONE	108-10-1		2.03E-15	0.00E+00
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2		1.22E-13	0.00E+00
METHYLNAPHTHALENE, 2-	91-57-6		9.36E-17	0.00E+00
MOLYBDENUM	7439-98-7	3.5	1.35E-13	3.87E-14
M-XYLENE	108-38-3		5.45E-13	0.00E+00
NAPHTHALENE	91-20-3		2.48E-12	0.00E+00
O-XYLENE	95-47-6		2.94E-13	0.00E+00
PHENANTHRENE	85-01-8		3.31E-16	0.00E+00
PHENOL	108-95-2		1.89E-15	0.00E+00
PHOSPHOROUS	7723-14-0		7.58E-17	0.00E+00
PROPIONALDEHYDE	123-38-6		1.06E-15	0.00E+00
P-XYLENE	106-42-3		5.66E-13	0.00E+00
PYRENE	129-00-0		4.81E-16	0.00E+00
PYRIDINE	110-86-1		1.50E-16	0.00E+00
SILVER	7440-22-4	4.2	1.67E-12	3.97E-13
STRONTIUM	7440-24-6		1.39E-12	0.00E+00
STYRENE	100-42-5		5.66E-16	0.00E+00
SULFURIC ACID	7664-93-9		1.95E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.15E-18	0.00E+00
TETRAHYDROFURAN	109-99-9		8.73E-17	0.00E+00

Table 59 - Aquatic Avian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Bird TRV**	**Great Blue Heron Dose**	**Great Blue Heron ESQ**
		mg/kg/day	mg/kg/day	Unitless
THALLIUM	7440-28-0		0.00E+00	0.00E+00
TIN	7440-31-5	6.8	4.26E-11	6.26E-12
TOLUENE	108-88-3		1.59E-15	0.00E+00
TRICHLOROETHYLENE	79-01-6		0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		8.72E-19	0.00E+00
ZINC	7440-66-6	14.5	2.36E-10	1.63E-11
DIOXIN TEQ (1)				4.32E-10
CUMULATIVE ESQ				**1.66E-09**
(1): See Appendix B for dioxin calculations				

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		1.33E-15	3.98E-17
1,2,4-TRIMETHYLBENZENE	95-63-6		1.38E-19	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		1.01E-14	0.00E+00
1,3-BUTADIENE	106-99-0		3.08E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.87E-15	1.34E-14
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		1.03E-14	3.09E-15
2-NITROPHENOL	88-75-5		5.63E-15	0.00E+00
ACENAPHTHENE	83-32-9		1.36E-13	0.00E+00
ACETALDEHYDE	75-07-0		7.95E-14	0.00E+00
ACETONE	67-64-1	2.8	2.34E-13	8.37E-14
ACETONITRILE	75-05-8		1.84E-14	0.00E+00
ACROLEIN	107-02-8		5.70E-15	0.00E+00
ACRYLONITRILE	107-13-1		8.92E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	6.81E-10	2.32E-09
AMMONIA	7664-41-7		8.53E-12	0.00E+00
ANTHRACENE	120-12-7		6.29E-13	0.00E+00
ANTIMONY	7440-36-0	0.019	2.43E-15	1.28E-13
ARSENIC	7440-38-2	0.019	3.71E-11	1.95E-09
BARIUM	7440-39-3	1.5	1.67E-11	1.11E-11
BENZ(A)ANTHRACENE	56-55-3		1.36E-10	0.00E+00
BENZENE	71-43-2	4	3.35E-13	8.37E-14
BENZO(A)PYRENE	50-32-8	0.15	9.68E-10	6.45E-09
BENZO(B)FLUORANTHENE	205-99-2		4.34E-11	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		5.57E-10	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.54E-11	8.10E-11
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	6.89E-09	2.75E-09
BUTYLBENZYLPHTHALATE	85-68-7		7.25E-12	0.00E+00

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
CADMIUM	7440-43-9	0.271	1.08E-11	3.98E-11
CARBON TETRACHLORIDE	56-23-5	4.5	5.66E-17	1.26E-17
CHLOROETHANE	75-00-3		1.36E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	9.67E-17	2.30E-17
CHROMIUM	7440-47-3	768	8.43E-08	1.10E-10
CHRYSENE	218-01-9		7.86E-11	0.00E+00
COPPER	7440-50-8	4.3	7.63E-09	1.77E-09
CROTONALDEHYDE	123-73-9		2.66E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		6.17E-15	0.00E+00
CYANIDE	57-12-5	18.1	1.54E-13	8.53E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		2.25E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		2.23E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	4.05E-14	5.81E-17
DIMETHYL PHTHALATE	131-11-3	3500	2.21E-13	6.31E-17
DI-N-BUTYL PHTHALATE	84-74-2	83	6.51E-12	7.84E-14
DI-N-OCTYL PHTHALATE	117-84-0	9780	3.11E-09	3.18E-13
ETHYL ACRYLATE	140-88-5		1.26E-17	0.00E+00
ETHYLBENZENE	100-41-4		2.44E-14	0.00E+00
FLUORANTHENE	206-44-0		7.10E-12	0.00E+00
FORMALDEHYDE	50-00-0	6.4	2.16E-12	3.37E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		2.61E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	8.20E-18	8.91E-18
HYDROGEN CHLORIDE	7647-01-0		4.29E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		1.90E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		3.10E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		3.54E-09	0.00E+00
LEAD	7439-92-1	2.24	5.66E-07	2.53E-07
MANGANESE	7439-96-5	25	1.39E-12	5.55E-14

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		4.04E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	4.77E-14	9.59E-17
METHYL ISOBUTYL KETONE	108-10-1	7	4.55E-15	6.49E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	7.63E-14	4.77E-14
METHYLNAPHTHALENE, 2-	91-57-6		1.49E-13	0.00E+00
MOLYBDENUM	7439-98-7	0.04	1.07E-12	2.68E-11
M-XYLENE	108-38-3		5.46E-14	0.00E+00
NAPHTHALENE	91-20-3	2.5	4.22E-11	1.69E-11
O-XYLENE	95-47-6		3.00E-14	0.00E+00
PHENANTHRENE	85-01-8		5.52E-12	0.00E+00
PHENOL	108-95-2		2.35E-13	0.00E+00
PHOSPHOROUS	7723-14-0		1.63E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		7.53E-15	0.00E+00
P-XYLENE	106-42-3		5.67E-14	0.00E+00
PYRENE	129-00-0		1.61E-11	0.00E+00
PYRIDINE	110-86-1		7.60E-15	0.00E+00
SILVER	7440-22-4	14	6.54E-13	4.67E-14
STRONTIUM	7440-24-6	74	3.25E-12	4.39E-14
STYRENE	100-42-5		1.64E-13	0.00E+00
SULFURIC ACID	7664-93-9		1.68E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		7.51E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		5.83E-16	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	1.42E-11	3.95E-12
TOLUENE	108-88-3	3.9	3.40E-13	8.72E-14

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Meadow Vole Dose** (mg/kg/day)	**Meadow Vole ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		2.86E-17	0.00E+00
ZINC	7440-66-6	44.9	3.97E-11	8.85E-13
DIOXIN TEQ (1)				1.04E-08
CUMULATIVE ESQ				**2.79E-07**
(1): See Appendix B for dioxin calculations				

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		2.24E-10	6.72E-12
1,2,4-TRIMETHYLBENZENE	95-63-6		9.63E-17	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		7.06E-12	0.00E+00
1,3-BUTADIENE	106-99-0		1.87E-13	0.00E+00
1,4-DIOXANE	123-91-1	0.14	1.27E-13	9.07E-13
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		8.47E-12	2.54E-12
2-NITROPHENOL	88-75-5		3.29E-12	0.00E+00
ACENAPHTHENE	83-32-9		9.58E-11	0.00E+00
ACETALDEHYDE	75-07-0		3.62E-12	0.00E+00
ACETONE	67-64-1	2.8	1.95E-11	6.95E-12
ACETONITRILE	75-05-8		8.41E-13	0.00E+00
ACROLEIN	107-02-8		6.47E-13	0.00E+00
ACRYLONITRILE	107-13-1		9.84E-11	0.00E+00
ALUMINUM	7429-90-5	0.293	4.80E-07	1.64E-06
AMMONIA	7664-41-7		1.13E-09	0.00E+00
ANTHRACENE	120-12-7		4.43E-10	0.00E+00
ANTIMONY	7440-36-0	0.019	1.59E-12	8.37E-11
ARSENIC	7440-38-2	0.019	2.68E-08	1.41E-06
BARIUM	7440-39-3	1.5	1.11E-08	7.37E-09
BENZ(A)ANTHRACENE	56-55-3		1.03E-07	0.00E+00
BENZENE	71-43-2	4	1.35E-10	3.37E-11
BENZO(A)PYRENE	50-32-8	0.15	6.82E-07	4.55E-06
BENZO(B)FLUORANTHENE	205-99-2		3.32E-08	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		4.26E-07	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	1.14E-08	5.97E-08
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	3.51E-04	1.40E-04
BUTYLBENZYLPHTHALATE	85-68-7		5.10E-09	0.00E+00

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
CADMIUM	7440-43-9	0.271	7.28E-09	2.69E-08
CARBON TETRACHLORIDE	56-23-5	4.5	4.47E-14	9.93E-15
CHLOROETHANE	75-00-3		7.20E-14	0.00E+00
CHLOROFORM	67-66-3	4.2	3.62E-14	8.61E-15
CHROMIUM	7440-47-3	768	5.87E-05	7.64E-08
CHRYSENE	218-01-9		5.92E-08	0.00E+00
COPPER	7440-50-8	4.3	4.76E-06	1.11E-06
CROTONALDEHYDE	123-73-9		3.09E-12	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		4.32E-12	0.00E+00
CYANIDE	57-12-5	18.1	6.10E-14	3.37E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		1.73E-07	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.35E-14	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.88E-11	2.70E-14
DIMETHYL PHTHALATE	131-11-3	3500	6.82E-11	1.95E-14
DI-N-BUTYL PHTHALATE	84-74-2	83	5.87E-09	7.08E-11
DI-N-OCTYL PHTHALATE	117-84-0	9780	3.79E-01	3.88E-05
ETHYL ACRYLATE	140-88-5		6.52E-15	0.00E+00
ETHYLBENZENE	100-41-4		1.69E-11	0.00E+00
FLUORANTHENE	206-44-0		5.01E-09	0.00E+00
FORMALDEHYDE	50-00-0	6.4	1.61E-10	2.51E-11
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		1.75E-14	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	5.68E-15	6.17E-15
HYDROGEN CHLORIDE	7647-01-0		1.70E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		9.75E-11	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		4.11E-12	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		2.72E-06	0.00E+00
LEAD	7439-92-1	2.24	4.05E-04	1.81E-04
MANGANESE	7439-96-5	25	9.47E-10	3.79E-11

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		1.84E-13	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	5.13E-12	1.03E-14
METHYL ISOBUTYL KETONE	108-10-1	7	9.91E-13	1.42E-13
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.65E-11	1.03E-11
METHYLNAPHTHALENE, 2-	91-57-6		1.05E-10	0.00E+00
MOLYBDENUM	7439-98-7	0.04	7.45E-10	1.86E-08
M-XYLENE	108-38-3		7.86E-11	0.00E+00
NAPHTHALENE	91-20-3	2.5	7.46E-09	2.99E-09
O-XYLENE	95-47-6		4.32E-11	0.00E+00
PHENANTHRENE	85-01-8		3.89E-09	0.00E+00
PHENOL	108-95-2		1.60E-10	0.00E+00
PHOSPHOROUS	7723-14-0		1.12E-11	0.00E+00
PROPIONALDEHYDE	123-38-6		1.82E-12	0.00E+00
P-XYLENE	106-42-3		8.17E-11	0.00E+00
PYRENE	129-00-0		1.13E-08	0.00E+00
PYRIDINE	110-86-1		4.86E-12	0.00E+00
SILVER	7440-22-4	14	4.53E-10	3.23E-11
STRONTIUM	7440-24-6	74	2.27E-09	3.07E-11
STYRENE	100-42-5		1.14E-10	0.00E+00
SULFURIC ACID	7664-93-9		5.38E-08	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.92E-14	0.00E+00
TETRAHYDROFURAN	109-99-9		1.24E-13	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	1.00E-08	2.78E-09
TOLUENE	108-88-3	3.9	1.83E-10	4.69E-11

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Raccoon Dose** (mg/kg/day)	**Raccoon ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.73E-14	0.00E+00
ZINC	7440-66-6	44.9	2.15E-08	4.78E-10
DIOXIN TEQ (1)				3.09E-05
CUMULATIVE ESQ				**4.00E-04**
(1): See Appendix B for dioxin calculations				

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		3.48E-12	1.04E-13
1,2,4-TRIMETHYLBENZENE	95-63-6		2.83E-19	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		2.08E-14	0.00E+00
1,3-BUTADIENE	106-99-0		5.94E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	8.09E-16	5.78E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		4.00E-14	1.20E-14
2-NITROPHENOL	88-75-5		1.07E-14	0.00E+00
ACENAPHTHENE	83-32-9		2.81E-13	0.00E+00
ACETALDEHYDE	75-07-0		8.95E-14	0.00E+00
ACETONE	67-64-1	2.8	7.57E-14	2.70E-14
ACETONITRILE	75-05-8		2.08E-14	0.00E+00
ACROLEIN	107-02-8		6.97E-15	0.00E+00
ACRYLONITRILE	107-13-1		3.01E-13	0.00E+00
ALUMINUM	7429-90-5	0.293	1.41E-09	4.82E-09
AMMONIA	7664-41-7		1.07E-11	0.00E+00
ANTHRACENE	120-12-7		1.30E-12	0.00E+00
ANTIMONY	7440-36-0	0.019	4.66E-15	2.45E-13
ARSENIC	7440-38-2	0.019	9.49E-11	5.00E-09
BARIUM	7440-39-3	1.5	3.26E-11	2.17E-11
BENZ(A)ANTHRACENE	56-55-3		3.97E-10	0.00E+00
BENZENE	71-43-2	4	4.32E-13	1.08E-13
BENZO(A)PYRENE	50-32-8	0.15	2.03E-09	1.36E-08
BENZO(B)FLUORANTHENE	205-99-2		1.32E-10	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		1.69E-09	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	4.01E-11	2.11E-10
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	5.40E-06	2.16E-06
BUTYLBENZYLPHTHALATE	85-68-7		1.50E-11	0.00E+00

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
CADMIUM	7440-43-9	0.271	3.18E-11	1.17E-10
CARBON TETRACHLORIDE	56-23-5	4.5	3.58E-16	7.95E-17
CHLOROETHANE	75-00-3		2.48E-16	0.00E+00
CHLOROFORM	67-66-3	4.2	1.69E-16	4.03E-17
CHROMIUM	7440-47-3	768	1.73E-07	2.26E-10
CHRYSENE	218-01-9		2.27E-10	0.00E+00
COPPER	7440-50-8	4.3	1.49E-08	3.46E-09
CROTONALDEHYDE	123-73-9		1.31E-14	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		1.27E-14	0.00E+00
CYANIDE	57-12-5	18.1	1.64E-13	9.05E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		6.84E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		4.30E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	6.88E-14	9.89E-17
DIMETHYL PHTHALATE	131-11-3	3500	2.48E-13	7.08E-17
DI-N-BUTYL PHTHALATE	84-74-2	83	3.56E-11	4.29E-13
DI-N-OCTYL PHTHALATE	117-84-0	9780	5.90E-03	6.04E-07
ETHYL ACRYLATE	140-88-5		2.27E-17	0.00E+00
ETHYLBENZENE	100-41-4		5.01E-14	0.00E+00
FLUORANTHENE	206-44-0		1.47E-11	0.00E+00
FORMALDEHYDE	50-00-0	6.4	1.33E-12	2.08E-13
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		5.27E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	1.68E-17	1.83E-17
HYDROGEN CHLORIDE	7647-01-0		4.56E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		2.16E-12	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		3.88E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.08E-08	0.00E+00
LEAD	7439-92-1	2.24	1.36E-06	6.07E-07
MANGANESE	7439-96-5	25	2.79E-12	1.11E-13

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		6.90E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	1.96E-14	3.95E-17
METHYL ISOBUTYL KETONE	108-10-1	7	4.08E-15	5.84E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	5.59E-14	3.50E-14
METHYLNAPHTHALENE, 2-	91-57-6		3.07E-13	0.00E+00
MOLYBDENUM	7439-98-7	0.04	2.20E-12	5.50E-11
M-XYLENE	108-38-3		8.27E-13	0.00E+00
NAPHTHALENE	91-20-3	2.5	2.09E-11	8.37E-12
O-XYLENE	95-47-6		4.54E-13	0.00E+00
PHENANTHRENE	85-01-8		1.14E-11	0.00E+00
PHENOL	108-95-2		4.77E-13	0.00E+00
PHOSPHOROUS	7723-14-0		3.34E-14	0.00E+00
PROPIONALDEHYDE	123-38-6		1.06E-14	0.00E+00
P-XYLENE	106-42-3		8.59E-13	0.00E+00
PYRENE	129-00-0		3.32E-11	0.00E+00
PYRIDINE	110-86-1		1.50E-14	0.00E+00
SILVER	7440-22-4	14	1.46E-12	1.04E-13
STRONTIUM	7440-24-6	74	6.69E-12	9.04E-14
STYRENE	100-42-5		3.37E-13	0.00E+00
SULFURIC ACID	7664-93-9		2.55E-10	0.00E+00
TETRACHLOROETHYLENE	127-18-4		1.50E-16	0.00E+00
TETRAHYDROFURAN	109-99-9		7.96E-16	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	2.93E-11	8.15E-12
TOLUENE	108-88-3	3.9	6.47E-13	1.66E-13

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Short Tailed Shrew Dose** (mg/kg/day)	**Short Tailed Shrew ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		5.49E-17	0.00E+00
ZINC	7440-66-6	44.9	7.11E-11	1.58E-12
DIOXIN TEQ (1)				3.88E-07
CUMULATIVE ESQ				**3.79E-06**

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
1,2,3,7,8-PENTACHLORODIBENZO(P)FURAN	57117-41-6		8.20E-15	2.46E-16
1,2,4-TRIMETHYLBENZENE	95-63-6		7.48E-20	0.00E+00
1,3,5-TRIMETHYLBENZENE	108-67-8		5.51E-15	0.00E+00
1,3-BUTADIENE	106-99-0		1.62E-16	0.00E+00
1,4-DIOXANE	123-91-1	0.14	2.37E-16	1.69E-15
2,3,4,7,8-PENTACHLORODIBENZO(P)FURAN	57117-31-4		2.96E-14	8.88E-15
2-NITROPHENOL	88-75-5		2.93E-15	0.00E+00
ACENAPHTHENE	83-32-9		7.41E-14	0.00E+00
ACETALDEHYDE	75-07-0		3.32E-14	0.00E+00
ACETONE	67-64-1	2.8	1.68E-14	5.98E-15
ACETONITRILE	75-05-8		7.72E-15	0.00E+00
ACROLEIN	107-02-8		2.46E-15	0.00E+00
ACRYLONITRILE	107-13-1		6.22E-14	0.00E+00
ALUMINUM	7429-90-5	0.293	3.71E-10	1.27E-09
AMMONIA	7664-41-7		3.71E-12	0.00E+00
ANTHRACENE	120-12-7		3.42E-13	0.00E+00
ANTIMONY	7440-36-0	0.019	1.23E-15	6.45E-14
ARSENIC	7440-38-2	0.019	1.98E-11	1.04E-09
BARIUM	7440-39-3	1.5	8.53E-12	5.69E-12
BENZ(A)ANTHRACENE	56-55-3		7.34E-11	0.00E+00
BENZENE	71-43-2	4	9.77E-14	2.44E-14
BENZO(A)PYRENE	50-32-8	0.15	5.25E-10	3.50E-09
BENZO(B)FLUORANTHENE	205-99-2		2.36E-11	0.00E+00
BENZO(K)FLUORANTHENE	207-08-9		3.03E-10	0.00E+00
BENZYL CHLORIDE	100-44-7		0.00E+00	0.00E+00
BERYLLIUM	7440-41-7	0.19	8.35E-12	4.40E-11
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	2.5	1.36E-08	5.46E-09
BUTYLBENZYLPHTHALATE	85-68-7		3.94E-12	0.00E+00

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
CADMIUM	7440-43-9	0.271	4.91E-12	1.81E-11
CARBON TETRACHLORIDE	56-23-5	4.5	2.29E-17	5.10E-18
CHLOROETHANE	75-00-3		6.97E-17	0.00E+00
CHLOROFORM	67-66-3	4.2	2.60E-17	6.19E-18
CHROMIUM	7440-47-3	768	4.52E-08	5.88E-11
CHRYSENE	218-01-9		4.26E-11	0.00E+00
COPPER	7440-50-8	4.3	3.58E-09	8.34E-10
CROTONALDEHYDE	123-73-9		3.41E-15	0.00E+00
CUMENE (ISOPROPYLBENZENE)	98-82-8		3.35E-15	0.00E+00
CYANIDE	57-12-5	18.1	6.32E-14	3.49E-15
DIBENZ(A,H)ANTHRACENE	53-70-3		1.23E-10	0.00E+00
DICHLORODIFLUOROMETHANE	75-71-8		1.17E-17	0.00E+00
DIETHYL PHTHALATE	84-66-2	696	1.39E-14	2.00E-17
DIMETHYL PHTHALATE	131-11-3	3500	4.31E-14	1.23E-17
DI-N-BUTYL PHTHALATE	84-74-2	83	3.42E-12	4.12E-14
DI-N-OCTYL PHTHALATE	117-84-0	9780	6.63E-06	6.78E-10
ETHYL ACRYLATE	140-88-5		6.42E-18	0.00E+00
ETHYLBENZENE	100-41-4		1.32E-14	0.00E+00
FLUORANTHENE	206-44-0		3.87E-12	0.00E+00
FORMALDEHYDE	50-00-0	6.4	4.27E-13	6.67E-14
HEXACHLOROBENZENE	118-74-1		0.00E+00	0.00E+00
HEXANE, N-	110-54-3		1.40E-17	0.00E+00
HEXAVALENT CHROMIUM	18540-29-9	0.92	4.43E-18	4.82E-18
HYDROGEN CHLORIDE	7647-01-0		1.76E-23	0.00E+00
HYDROGEN CYANIDE	74-90-8		7.96E-13	0.00E+00
HYDROGEN FLOURIDE	7664-39-3		1.35E-14	0.00E+00
INDENO(1,2,3-CD)PYRENE	193-39-5		1.93E-09	0.00E+00
LEAD	7439-92-1	2.24	3.02E-07	1.35E-07
MANGANESE	7439-96-5	25	7.31E-13	2.92E-14

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
MERCURIC CHLORIDE	7487-94-7		0.00E+00	0.00E+00
MERCURY	7439-97-6		0.00E+00	0.00E+00
METHYL BROMIDE	74-83-9		0.00E+00	0.00E+00
METHYL CHLORIDE	74-87-3		2.01E-16	0.00E+00
METHYL ETHYL KETONE	78-93-3	497	4.44E-15	8.94E-18
METHYL ISOBUTYL KETONE	108-10-1	7	8.47E-16	1.21E-16
METHYL MERCURY	22967-92-6		0.00E+00	0.00E+00
METHYLENE CHLORIDE	75-09-2	1.6	1.24E-14	7.73E-15
METHYLNAPHTHALENE, 2-	91-57-6		8.09E-14	0.00E+00
MOLYBDENUM	7439-98-7	0.04	5.82E-13	1.45E-11
M-XYLENE	108-38-3		2.43E-14	0.00E+00
NAPHTHALENE	91-20-3	2.5	3.95E-12	1.58E-12
O-XYLENE	95-47-6		1.33E-14	0.00E+00
PHENANTHRENE	85-01-8		3.00E-12	0.00E+00
PHENOL	108-95-2		1.27E-13	0.00E+00
PHOSPHOROUS	7723-14-0		8.83E-15	0.00E+00
PROPIONALDEHYDE	123-38-6		3.43E-15	0.00E+00
P-XYLENE	106-42-3		2.52E-14	0.00E+00
PYRENE	129-00-0		8.75E-12	0.00E+00
PYRIDINE	110-86-1		4.04E-15	0.00E+00
SILVER	7440-22-4	14	3.52E-13	2.51E-14
STRONTIUM	7440-24-6	74	1.77E-12	2.39E-14
STYRENE	100-42-5		8.91E-14	0.00E+00
SULFURIC ACID	7664-93-9		7.89E-11	0.00E+00
TETRACHLOROETHYLENE	127-18-4		4.02E-17	0.00E+00
TETRAHYDROFURAN	109-99-9		2.63E-16	0.00E+00
THALLIUM	7440-28-0	0.002	0.00E+00	0.00E+00
TIN	7440-31-5	3.6	7.73E-12	2.15E-12
TOLUENE	108-88-3	3.9	1.33E-13	3.40E-14

Table 60 - Aquatic Mammalian Receptor ESQs: Skid Burn 183 Day Scenario				
Constituent	**CAS**	**Mammal TRV** (mg/kg/day)	**Red Fox Dose** (mg/kg/day)	**Red Fox ESQ** (unitless)
TRICHLOROETHYLENE	79-01-6	0.106	0.00E+00	0.00E+00
TRICHLOROFLUOROMETHANE	75-69-4		1.50E-17	0.00E+00
ZINC	7440-66-6	44.9	1.55E-11	3.46E-13
DIOXIN TEQ (1)				3.04E-08
CUMULATIVE ESQ				**1.78E-07**
(1): See Appendix B for dioxin calculations				