

**Uses and Environmental Sources of Contaminants for the
Final (2007) UCMR Monitoring List**
Contaminant list taken from the 2007 version of 40 CFR 141.40

Contaminant Name	CASRN	Use or Environmental Source
List 1 - Assessment Monitoring Chemical Contaminants		
Dimethoate	60-51-5	Insecticide use on cotton and other field crops, orchard crops, vegetable crops, in forestry, and for residential uses
Terbufos sulfone	56070-16-7	Degradate of the parent compound, terbufos; terbufos used for systemic control of soil-borne insects and nematodes in fields of corn, grain sorghum, and sugar beets
<i>Five Flame Retardants</i>		
2,2',4,4'-tetrabromodiphenyl ether (BDE-47)	5436-43-1	Flame retardants added to plastics (for products such as computer monitors, televisions, textiles, and plastic foams)
2,2',4,4',5-pentabromodiphenyl ether (BDE-99)	60348-60-9	
2,2',4,4',5,5'-hexabromobiphenyl (HBB)	59080-40-9	
2,2',4,4',5,5'-hexabromobiphenyl ether (BDE-153)	68631-49-2	
2,2',4,4',6-pentabromodiphenyl ether (BDE-100)	189084-64-8	
<i>Three Explosives</i>		
1,3-dinitrobenzene	99-65-0	Used in explosives; also formed as a by-product during the manufacture of the explosive TNT; used in the manufacture of aramid fibers, spandex, and dyes
2,4,6-trinitrotoluene (TNT)	118-96-7	Used as an explosive in bombs and grenades, also used as a propellant; small amounts used for industrial explosive applications, such as deep well and underwater blasting; chemical intermediate in manufacture of dyestuffs and photographic chemicals
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	Used in detonators, primers, mines, rocket boosters, and plastic explosives; used in fireworks and demolition blocks, and as a rodenticide

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List 2 -Screening Survey of Chemical Contaminants		
<i>Three Parent Acetanilides</i>		
Acetochlor	34256-82-1	Used as an herbicide on corn
Alachlor	15972-60-8	Widely used herbicide, primarily used in the Midwest to control annual grasses and broadleaf weeds on crops such as corn, sorghum, and soybeans
Metolachlor	51218-45-2	Broad spectrum herbicide used for general weed control in non-crop areas; widely used on crops such as corn, cotton, peanuts, grass for seed production, nurseries, hedgerows/fencerows, and landscape planting
<i>Six Acetanilide Degradates</i>		
Acetochlor ethane sulfonic acid (ESA)	187022-11-3	Degradation product of acetochlor
Acetochlor oxanilic acid (OA)	184992-44-4	Degradation product of acetochlor
Alachlor ethane sulfonic acid (ESA)	142363-53-9	Degradation product of alachlor
Alachlor oxanilic acid (OA)	171262-17-2	
Metolachlor ethane sulfonic acid (ESA)	171118-09-5	Degradation product of metolachlor
Metolachlor oxanilic acid (OA)	152019-73-3	
<i>Six Nitrosamines</i>		
N-nitroso-diethylamine (NDEA)	55-18-5	Nitrosamines can form as intermediates and byproducts in chemical synthesis and manufacture of rubber, leather, and lastics; can form spontaneously by reaction of precursor amines with nitrosating agents (nitrate and related compounds), or by action of nitrate-reducing bacteria. Foods such as bacon and malt beverages can contain nitrosamines; there is also evidence that they form in the upper GI tract
N-nitroso-dimthylamine (NDMA)	62-75-9	
N-nitroso-di-n-butylamine (NDBA)	924-16-3	
N-nitroso-di-n-propylamine (NDPA)	621-64-7	
N-nitroso-methylethylamine (NMEA)	10595-95-6	
N-nitroso-pyrrolidine (NPYR)	930-55-2	

Contaminant Name	CASRN	Use or Environmental Source
List 3 - Pre-Screen Testing of Contaminants Needing Research on Methods		
Reserved		