

Table 3: Compounds detected using the Dionex Ultimate 3000 UPLC in various sample sites in Mpumalanga during different seasons.

Dry Season				Wet season		
Site	Compound	Use/Source	Class of EDC	Compound	Use/Source	Class of EDC
MP1	Carbamazepine	Anticonvulsant	Pharmaceutical	N,N-Diethylphenylacetamide	Insect repellent	Pesticide
	Piptamine	Found in Fungus	-	D-(-)-Anaferine	-	-
				Fenpropimorph	Fungicide	Pesticide
				N,N-Diethyl-m-toluamide	Insect repellent	Pesticide
MP2	Piptamine	Found in Fungus		Dodemorph	Fungicide	Pesticide
	Piptamine	Found in Fungus		Dodemorph	Fungicide	Pesticide
MP4				Hexadecanamide	Amide derived from palmitic acid (Cosmetic agent)	PCP*
				Tacrolimus	Immunosuppressive drug	Pharmaceutical
MP5	Picein	Found in plants	-	Lopinavir	ARV	Pharmaceutical
	Dodemorph	Fungicide	Pesticide	Mono(2-ethylhexyl) phthalate	Metabolic derivative of DEHP (plasticizer)	Phthalates
	Piptamine	Found in Fungus	-	Hexadecanamide	Metabolite	-
				Muramic acid	Found in bacteria	-
MP6	Piptamine	Found in Fungus		1-Indolizidinone	-	
	Dodemorph	Fungicide	Pesticide	Supinidine	-	
MP7	Piptamine	Found in Fungus	-	Methyl farnesoate	Crustacean hormone	-
				Palmitic amide	Amide derived from palmitic acid (Cosmetic agent)*	PCP
				Oleamide	Amide derived from oleic acid (Cosmetic agent)*	PCP
MP8	1,8-diazacyclotetradecane-2,9-dione	-		Tacrolimus	Immunosuppressive drug	Pharmaceutical
	Piptamine	Found in Fungus	-	Hexadecanamide	Metabolite	-
	Cyclo(L-leucyl-L-leucyl)	Found in bacteria	-	2-ethylhexyl phthalate(DEHP)	Plasticizer	Phthalates

MP9	Isopentenyladenosine-5'-triphosphate	Found in pecan nuts	-	N,N-Diethyl-m-toluamide	Insect repellent	Pesticide
	Feruloylputrescine	Found in citrus fruits	-	N,N-Diethylphenylacetamide	Insect repellent	Pesticide
	N,N-diethylphenylacetamide	Insect repellent	Pesticide	Lopinavir	ARV	Pharmaceutical
	N,N-diethyl-m-toluamide	Insect repellent	Pesticide			
	Emtricitabine	ARV	Pharmaceutical			
	Lopinavir	ARV	Pharmaceutical			
	Chlorambucil	Chemotherapy drug	Pharmaceutical			
	Piptamine	Found in Fungus				
	Abacavir 5"-carboxylic acid	Oxidation product of the drug Abacavir (ARV)	Pharmaceutical			
	Carbamazepine	Anticonvulsant	Pharmaceutical			
	Atazanavir	ARV	Pharmaceutical			
	Tricaine	Antacid	Pharmaceutical			
	17-beta-estradiol	Steroid hormone/contraceptive	Pharmaceutical			
	Mexacarbate	Pesticide	Pesticide	Tacrolimus	Immunosuppressive drug	Pharmaceutical
MP10	3-Hydroxymonoethylglycinexylidide	Metabolite of lidocaine (local anaesthetics)	Pharmaceutical			
	Piptamine	Found in Fungus				
	Miotine	Anticholinesterase	Pharmaceutical			

PCP = Personal care products, MP1 = Borehole water, MP2= Middle of wetland, MP4 = Natural spring, MP5 = Upstream wetland, MP6 = Martin's Dam, MP7 = Downstream wetland, MP8 = DWTP final treated water, MP9 = WWTP effluent, MP10 = Zaaihoek Dam inlet. *MP3=bottled water (not analyzed)