

Polycyclic aromatic hydrocarbon in urban soils of the Eastern European megalopolis: distribution, source identification and cancer risk evaluation

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Table S3. Information on the sampling plots

Functional zone	Primorskiy district							
	Sampling plot #	Address	GPS	Sampling plot square, m ²	Object of study	Proximity to nearest highways, m	Proximity to nearest industries, m	Relief, landscape, vegetation type, population density, nearest industries and highways, traffic, dominating wind directions
Recreational	1	Primorskiy prospect, 159	59.985825 N, 30.191534 E	25	The park of the 300th anniversary of St. Petersburg	190	690	Flat marine plain with altitudes below 15 m above the sea level, bulk territories with lawn constructions with presence of ruderal species; Population density - 4952 people per km ² ; Dominating wind directions – south and south-western, nearest industries – varnish and paint plant “Kronos”, scientific and production complex "Abrasive and grinding"; Nearest highways – Primorskiy prospect, Turistskaya street (average traffic).
	2	Primorskiy prospect, 157	59.985040 N, 30.193958 E	25	The park of the 300th anniversary of St. Petersburg	190	840	
	3	Primorskiy prospect, 74B	59.983459 N, 30.202799 E	25	The park of the 300th anniversary of St. Petersburg	200	860	
	4	Primorskiy prospect, 147	59.983395 N, 30.205910 E	25	The park of the 300th anniversary of St. Petersburg	200	1100	
	5	Primorskiy prospect, 72	59.981858 N, 30.212188 E	25	Territory – North Seaside part	160	1150	
Residential	6	Yahtennaya street, 22.	59.996546 N, 30.219670 E	25	Residential area on Yahtennaya street	45	530	Flat plain with altitudes below 20 m above the sea level, ruderal vegetation; Population density - 4952 people per km ² ; Dominating wind directions – south and south-western, nearest industries – varnish and paint plant “Kronos”, scientific and production complex "Abrasive and grinding"; Nearest highways – Yahtennaya street, Primorskiy prospect, Opticov street (average traffic).
	7	Yahtennaya street, 22A.	59.996971 N, 30.219809 E	25	Residential area on Yahtennaya street	45	630	
	8	Yahtennaya street, 22B.	59.997401 N, 30.220066 E	25	Residential area on Yahtennaya street	45	730	
	9	Yahtennaya street, 24.	59.997825 N, 30.220335 E	25	Residential area on Yahtennaya street	45	830	
Industrial	10	Avtobusnaya street, 8.	60.029040 N, 30.260285 E	25	Vicinity of the Bus depot №2	30	50	Flat plain with altitudes below 35 m above the sea level, fragmentized ruderal vegetation; Population density - 4952 people per km ² ; Dominating wind directions – south and south-western, nearest industries – abrasive plant “Il’ich”, Bus depot #2; Nearest highways – Avtobusnaya street, Novo-Nikitinskaya street, Parashutnaya street (average traffic).
	11	Avtobusnaya street, 9.	60.029577 N, 30.260896 E	25	Vicinity of the Bus depot №2	30	50	
	12	Avtobusnaya street, 12A.	60.028568 N, 30.259555 E	25	Vicinity of the Bus depot №2	30	50	
	13	Avtobusnaya street, 8B.	60.028568 N, 30.259555 E	25	Vicinity of the Bus depot №2	50	100	

Functional zone	Vasileostrovskiy district							
	Sampling plot #	Address	GPS	Sampling plot square, m ²	Object of study	Proximity to nearest highways, m	Proximity to nearest industries, m	Relief, landscape, vegetation type, population density, nearest industries and highways, traffic, dominating wind directions
Recreational	14	2d Line of Vasilyevskiy Island, 2A	59.938770 N, 30.288802 E	25	Akademicheskij Garden	80	2000	Flat plain with altitudes below 10 m above the sea level, oak, aspen and linden gardens with presence of ruderal species; Population density - 14288 people per km ² ; Dominating wind directions – south and south-western, nearest industries – Baltic shipyard; Nearest highways – Bolshoi prospect V.O., Kadetskaya (1 st) line, Universitetskaya embankment (heavy traffic)
	15	Rumyantsevskaya square, 7	59.938469 N, 30.292836 E	25	Rumyantsevskiy Garden,	80	2000	
Residential	16	Korablestroitelei street , 19	59.945551 N, 30.207853 E	25	Residential area on Korablestroitelei street	100	2800	Flat plain with altitudes below 10 m above the sea level, ruderal vegetation; Population density - 14288 people per km ² ; Dominating wind directions – south and south-western, nearest industries – Baltic shipyard; Nearest highways – Korablestroitelei street., Maliy propect V.O. (heavy traffic).
	17	Korablestroitelei street , 17	59.945304 N, 30.207574 E	25	Residential area on Korablestroitelei street	90	2750	
	18	Korablestroitelei street , 17A	59.944809 N, 30.207574 E	25	Residential area on Korablestroitelei street	90	2700	
	19	Korablestroitelei street , 17B	59.944324 N, 30.207574 E	25	Residential area on Korablestroitelei street	90	2650	
Industrial	20	Detskaya street, 3G	59.929719 N, 30.256540 E	50	Vicinity of the Baltic shipyard	40	200	Flat plain with altitudes below 10 m above the sea level, fragmentized ruderal vegetation with low projective cover; Population density - 14288 people per km ² ; Dominating wind directions – south and south-western, nearest industries – Baltic shipyard; Nearest highways – Bolshoi prospect V.O., Kosaya line, Detskaya street (heavy traffic).
	21	Kosaya line, 13 / 2GA	59.928652 N, 30.256519 E	50	Vicinity of the Baltic shipyard	50	170	
	22	Kosaya line, 13 / 6D	59.927312 N, 30.255425 E	50	Vicinity of the Baltic shipyard	40	140	
	23	Kosaya line, 16 / 1D	59.926525 N, 30.255725 E.	50	Vicinity of the Baltic shipyard	40	100	

Functional zone	Kirovskiy district							
	Sampling plot #	Address	GPS	Sampling plot square, m ²	Object of study	Proximity to nearest highways, m	Proximity to nearest industries, m	Relief, landscape, vegetation type, population density, nearest industries and highways, traffic, dominating wind directions
Recreational	24	Stachek prospect, 20B	59.892578 N, 30.274250 E	25	The park of 9th January	35	340	Flat plain with altitudes below 30 m above the sea level, aspen and maple garden with presence of ruderal species; Population density - 7015 people per km ² ; Dominating wind directions – south and south-western; Nearest industries – Kirovskiy engineering plant; Nearest highways – Stachek prospect, St. Petersburg Ring Road (ZSD), Marshal Jucov's prospect (heavy traffic)
	25	Stachek prospect, 17	59.893462 N, 30.275216 E	25	The park of 9th January	35	340	
	26	Stachek prospect, 15	59.894476 N, 30.276224 E	25	The park of 9th January	35	340	
	27	Marshal Jukov's street, 34	59.890704 N, 30.277410 E	25	The park of 9th January	50	270	
Residential	28	Korneev street, 4	59.885768 N, 30.267835 E	25	Residential area on Korneev street	50	220	Flat plain with altitudes below 30 m above the sea level, ruderal vegetation; Population density - 7015 people per km ² ; Dominating wind directions – south and south-western; Nearest industries – Kirovskiy engineering plant; Nearest highways – Stachek prospect, St. Petersburg Ring Road (ZSD), Marshal Jucov's prospec (heavy traffic)
	29	Korneev street, 2	59.885614 N, 30.268570 E	25	Residential area on Korneev street	50	270	
	30	Stachek prospect, 44	59.886369 N, 30.268543 E	25	Residential area on Stachek prospect	50	350	
Industrial	31	Stachek prospect, 47BT	59.885455 N, 30.261639 E	25	Vicinity of the Kirovskiy engineering plant	20	50	Flat plain with altitudes below 30 m above the sea level, fragmentized ruderal vegetation with low projective cover; Population density - 7015 people per km ² ; Dominating wind directions – south and south-western; Nearest industries – Kirovskiy engineering plant; Nearest highways – Stachek prospect, St. Petersburg Ring Road (ZSD), Marshal Jucov's prospec (heavy traffic)
	32	Stachek prospect, 47BP	59.885191 N, 30.262487 E	25	Vicinity of the Kirovskiy engineering plant	20	50	
	33	Stachek prospect, 47BP	59.884911 N, 30.263517 E	25	Vicinity of the Kirovskiy engineering plant	20	50	
	34	Stachek prospect, 47BP	59.884603 N, 30.264697 E	25	Vicinity of the Kirovskiy engineering plant	20	50	