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<b>Document title</b>	Deletion of Sub-Hot Spot No. 18.1 “Construction of new sewer connections” (Saint-Petersburg)
<b>Code</b>	3-17
<b>Category</b>	DEC
<b>Agenda Item</b>	3 – Matters arising from the HELCOM Groups
<b>Submission date</b>	24.11.2014
<b>Submitted by</b>	Russia
<b>Reference</b>	

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### Action required

Based on the information provided in this document, the Meeting is invited to decide on the deletion of Sub-Hot Spot No. 18.1 “Construction of new sewer connections” (Saint-Petersburg).

In the pursuance of the protocol of the 46-th Meeting of the Heads of Delegations, the Russian side informs the following.

In 1992 HELCOM approved The Baltic Sea Joint Comprehensive Environmental Action Program, which included 132 "hot spots" that were located in all countries of the Baltic Sea catchment area.

The "hot spots" have been identified as industrial enterprises, municipal wastewater treatment plants, agricultural enterprises, as well as other objects of economic activity, causing significant damage to the environment.

At the 11-th meeting of the HELCOM LAND working group (16-18 of May 2006, Sopot, Poland) with a view to a substantive assessment of the progress it was decided to divide the "hot spot", which is under the authority of the SUE "Vodokanal of St.Petersburg", on 19 separate "hot subspots", which included the development of the sewerage system (construction of sewers) in St. Petersburg and 18 waste water treatment plants, which should be deleted from the HELCOM list in accordance with criteria for deletion of "hot spots" subsequently.

The decision of the 11-th HELCOM LAND group meeting was approved on the 19-th Meeting of the Heads of Delegation, which was held on 19-26 of June 2006, Vilnius, Lithuania (Agenda Item 3 - Matters arising from the HELCOM Groups, para 3.9.5; 3.9.6).

Table 1 below provides a list of HELCOM "hot subspots" under the authority of the SUE "Vodokanal of St. Petersburg", which includes the date of deletion.

**Table 1**

**The List of "hot subspots" of the SUE "Vodokanal of St. Petersburg"**

<b>№</b>	<b>Name</b>	<b>Status</b>
18.1	Building of sewage collectors	Planned deletion - 2014
18.2	Central Station Aeration (CSA)	deleted in 2010
18.3	Northern Station Aeration (NSA)	deleted in 2006
18.4	South-West WWTP	deleted in 2009
18.5	Pargolovo WWTP	deleted in 2006
18.6	Prigorodnye WWTP -	deleted in 2006
18.7	Torfynoe WWTP	deleted in 2006
18.8	Zavodskie WWTP -	deleted in 2006
18.9	Puskin WWTP	deleted in 2006
18.10	Petrodvorets WWTP	deleted in 2012
18.11	Kolpino WWTP	Increasing of productivity up to 150 thousand m <sup>3</sup> /day and the construction of a shop for sludge incineration of sludge - the planned deletion in 2015
18.12	Kronshtadt WWTP	deleted in 2009

18.13	Sestroretsk WWTP	deleted in 2006
18.14	Pontonny WWTP	deleted in 2009
18.15	Metallostroy WWTP	Closure of WWTP in connection with switching of wastewater on Central SA, the planned deletion - 2015
18.16	Repino WWTP	deleted in 2009
18.17	Zelenogorsk WWTP	deleted in 2006
18.18	Pesochny 1 WWTP	deleted in 2012
18.19	Pesochny 2 WWTP	deleted in 2012

The construction of the main sewage collector in Saint Petersburg (subspot 18.1) have been completed in October 2013 and the official launch of the facility was done. Put into operation of the main sewage collector have allowed to treat 98.4% of urban wastewater and to fulfill the criteria for deletion of “hot subspot” №18.1.

At the 19-th meeting of HELCOM LAND (14-16 May 2014), Russia submitted a proposal to delete the “hot subspot” № 18.1. In accordance with the decision of the meeting (on request of countries), Russia has been prepared and submitted additional information on concentrations, flow rate and efficiency of treatment on 3 large wastewater treatment plants (Central SA, Northern SA and South-West WWTP) .

At the 46th meeting of the Heads of Delegation (15-17 September 2014), in considering this issue, the Finnish delegation did not support the deletion of the “hot subspot” №18.1. In accordance with the decision of the Finland Head of Delegation, it was required to submit specific questions needed to clarify the position of Finland.

In a letter of the Finland Head of the delegation on 01.10.2014, noted that there are concentrations exceeding the HELCOM nitrogen norm in the treated waste water discharged from the Northern SA. Also referenced to the Joint program for the closure of direct discharges into the river Neva (Northern Dimension Environmental Partnership and the “Vodokanal of St. Petersburg”), which includes activities for Northern SA and Central SA, uncompleted at this moment.

We believe it is necessary to separate the Program for closing direct discharges into the river Neva and its activities to Northern SA from work for deletion HELCOM “hot subspot” № 18.1, which relates directly to the construction of sewers.

As can be seen from tables (Appendix 1,2 - The removal efficiency of nitrogen and phosphorus on waste water treatment plants of SUE “Vodokanal of St. Petersburg” for 9 months of 2013 and 2014) - connection the main sewage collector to the Northern SA almost haven't caused increasing of nutrient concentrations in the treated wastewater, which generally correspond to the preceding to this period indicators (average concentration of nitrogen in the treated wastewater from the Northern SA during period from November 2013 -to April 2014 increased by only 5% of the average concentration for the period January 2013 - October 2013). Thus, the marked concentration exceeding the HELCOM nitrogen norm in the treated waste water discharged from the Northern SA does not result put into operation of the collector and caused primarily activities implemented directly on the WWTP.

However, sharing the concerns of Finland, it should be noted that “Vodokanal of Saint-Petersburg” has undertaken compensatory measures to improve the quality of treated wastewater to

the other treatment facilities. As can be seen from the summary Table 2 - The removal efficiency of nitrogen and phosphorus - additional measures have allowed to reach HELCOM standards in the total volume of treated waste water discharged into water bodies.

**Table 2**

**Summary on nitrogen and phosphorus removal**

Period	Name of WWTP	Effluent flow 10 <sup>3</sup> m <sup>3</sup> /9 months	Nitrogen					Phosphorous				
			Concentration, mg/l		Amount, t/year		Removal efficiency %	Concentration, mg/l		Amount, t/year		Removal efficiency %
			inlet	outlet	inlet	outlet		inlet	outlet	inlet	outlet	
2013	Northern SA	282529.0	34.0	11.3	9722	3198	67	5.50	0.40	1566	123	92
	Central SA	354459.4	28.30	9.60	10022	3387	66	4.90	0.30	1745	95	95
	South-West WWTP	81317.4	38.20	6.70	3106	545	82	6.10	0.30	494	28	94
	Kurortny district	29734.8	24.40	0.20	726	6	99	3.70	0.30	109	10	91
	Kolpino district	47440	34.0	9.50	1614	453	72	4.40	0.40	209	18	91
	<b>Total</b>	<b>795481.0</b>	<b>31.67</b>	<b>9.54</b>	<b>25190</b>	<b>7589</b>	<b>70</b>	<b>5.18</b>	<b>0.35</b>	<b>4124</b>	<b>275</b>	<b>93</b>
2014 (9 months)	Northern SA	200673.3	35.2	10.70	7059	2151	70	5.40	0.30	1118	66	94
	Central SA	242643.9	31.70	9.30	8013	2538	71	5.30	0.30	1337	68	95
	South-West WWTP	59038.8	35.80	6.00	2116	355	83	5.70	0.30	335	19	94
	Kurortny district	20526.9	25.60	0.20	526	4	99	4.16	0.30	85	6	92
	Kolpino district	35530.1	35.40	9.70	1258	344	73	4.30	0.31	154	156	90
	<b>Total</b>	<b>568413.0</b>	<b>33.38</b>	<b>9.17</b>	<b>18972</b>	<b>5212</b>	<b>73</b>	<b>5.33</b>	<b>0.31</b>	<b>3030</b>	<b>176</b>	<b>94</b>

Furthermore in order to preserve the purity of the Baltic Sea in line with the HELCOM Recommendations and Russian standards, SUE “Vodokanal of St. Petersburg” systematically, continuously carries out works on reconstruction of WWTPs and introduction of new technological solutions to enhance the efficiency of treatment including at Northern and Central SA.

**Taking into account the above, we believe that all of the requirements for the deletion of “hot subspot” №18.1 are fulfilled and bearing in mind that activities on the construction of the main sewage collector are fully implemented and meet the criteria for deletion “hot spot” of the Baltic Sea Joint Comprehensive Environmental Action Program, please consider and take a decision on deletion of the “hot subspot” №18.1 - construction of sewers – from the HELCOM list.**

*Appendix:*

1. *Nitrogen removal efficiency - on the WWTPs of SUE “Vodokanal of St.Petersburg” for 2013 and first 9 months of 2014*
2. *Phosphorous removal efficiency on the WWTPs of SUE “Vodokanal of St.Petersburg” for 2013 and first 9 months of 2014*

## Appendix 1

**Nitrogen removal efficiency on the WWTPs of SUE “Vodokanal of St.Petersburg”  
for 2013 and first 9 months of 2014**

Northern SA						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	27 921,0	38,0	12,1	1 061,0	337,8	68
February	19 812,0	42,0	11,8	832,1	233,8	72
March	21 658,0	45,5	10,3	985,4	223,1	77
April	23 968,0	36,7	11,5	879,6	275,6	69
May	22 430,0	33,1	11,6	742,4	260,2	65
June	18 200,0	41,4	9,2	753,5	168,0	78
July	20 562,0	27,4	11,0	563,4	226,2	60
August	21 189,0	33,7	10,5	714,1	222,5	69
September	19 855,0	33,6	10,7	667,1	212,4	68
October	25 770,0	33,3	11,8	858,1	304,1	65
November	31 546,0	26,2	12,2	826,5	384,9	53
December	29 618,0	28,3	11,8	838,2	349,5	58
<b>Total</b>	<b>282 529,0</b>	<b>34,4</b>	<b>11,3</b>	<b>9 721,5</b>	<b>3 198,1</b>	<b>67</b>
<b>2014</b>						
January	23 954,0	36,7	11,7	879,1	280,3	68
February	20 539,0	33,7	11,8	692,2	242,4	65
March	28 566,0	31,6	11,5	902,7	328,5	64
April	24 195,0	37,0	10,9	895,2	263,7	71
May	25 217,0	33,8	10,5	852,3	264,8	69
June	21 125,0	35,6	10,2	752,1	215,5	71
July	20 462,0	36,3	9,9	742,8	202,6	73
August	17 219,3	34,6	9,5	595,8	163,6	73
September	19 396,0	38,5	9,8	746,7	190,1	75
<b>Total</b>	<b>200 673,3</b>	<b>35,2</b>	<b>10,7</b>	<b>7 058,9</b>	<b>2 151,3</b>	<b>70</b>

Central SA						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	26 999,0	30,0	9,5	810,0	257,3	68
February	26 195,7	33,7	10,0	882,8	262,0	70
March	28 168,0	32,7	9,0	921,1	252,7	73
April	32 962,3	27,6	9,1	909,8	300,0	67
May	31 976,9	27,4	9,5	876,2	302,8	65
June	28 380,5	29,0	9,2	823,0	262,0	68
July	29 852,4	23,2	7,8	692,6	232,8	66
August	29 224,8	25,4	12,0	742,3	350,7	53
September	26 998,5	27,7	10,7	747,9	288,9	61
October	30 150,9	32,2	9,4	970,9	282,5	71
November	31 746,0	27,3	8,8	866,7	280,3	68
December	31 804,6	24,5	9,9	779,2	314,9	60
<b>Total</b>	<b>354 459,4</b>	<b>28,3</b>	<b>9,6</b>	<b>10 022,3</b>	<b>3 386,8</b>	<b>66</b>
<b>2014</b>						
January	33 158,3	30,4	9,4	1 008,0	311,7	69
February	30 206,3	29,1	9,9	879,0	299,0	66
March	26 769,8	30,2	9,8	808,4	262,3	68
April	24 415,3	37,8	9,7	922,9	236,8	74
May	29 567,0	30,9	8,2	913,6	242,4	73
June	28 482,5	31,7	9,3	902,9	264,9	71
July	23 201,0	33,3	9,6	772,6	222,7	71
August	30 527,3	32,0	9,2	976,9	280,9	71
September	26 316,4	31,5	9,0	829,0	236,8	71
<b>Total</b>	<b>252 643,9</b>	<b>31,7</b>	<b>9,3</b>	<b>8 013,3</b>	<b>2 357,7</b>	<b>71</b>

South-West WWTP						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	6 924,0	39,5	7,2	273,5	50,1	82
February	5 946,9	43,2	7,5	256,9	44,8	83
March	6 515,0	45,3	7,0	295,1	45,6	85
April	8 079,0	33,9	7,2	273,9	58,2	79
May	7 540,5	34,9	6,0	263,2	45,2	83
June	6 073,7	36,6	5,0	222,3	30,4	86
July	6 438,3	34,1	6,9	219,5	44,2	80
August	6 745,9	33,5	6,2	226,0	42,0	81
September	6 135,0	39,7	6,2	243,6	38,0	84
October	6 514,3	37,5	7,4	244,3	48,4	80
November	7 298,7	36,8	6,7	268,6	48,9	82
December	7 106,0	44,9	6,9	319,1	49,2	85
<b>Total</b>	<b>81 317,4</b>	<b>38,2</b>	<b>6,7</b>	<b>3 105,9</b>	<b>545,1</b>	<b>82</b>
<b>2014</b>						
January	7 123,9	37,3	6,4	265,7	45,6	83
February	6 261,0	38,4	6,3	240,4	39,4	84
March	7 124,4	36,9	6,8	262,9	48,4	82
April	6 497,1	40,1	7,0	260,5	45,5	83
May	7 148,0	36,8	5,2	263,0	37,2	86
June	6 784,3	30,5	5,4	206,9	36,6	82
July	5 879,6	35,9	5,3	211,1	31,2	85
August	6 258,2	33,2	5,9	207,8	36,9	82
September	5 962,4	33,1	5,7	197,4	34,0	83
<b>Total</b>	<b>59 038,8</b>	<b>35,8</b>	<b>6,0</b>	<b>2 115,7</b>	<b>354,8</b>	<b>83</b>

Kurortny District						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	2 511,7	27,5	0,3	69,1	0,8	99
February	2 074,7	26,9	0,2	55,9	0,4	99
March	2 281,6	26,8	0,3	61,2	0,6	99
April	3 085,9	20,3	0,3	62,6	0,8	99
May	3 053,8	19,4	0,3	59,1	1,0	98
June	2 385,4	26,0	0,1	62,1	0,3	99
July	2 293,4	24,8	0,2	56,8	0,4	99
August	2 318,0	24,8	0,1	57,6	0,3	99
September	1 984,7	29,7	0,2	59,0	0,3	99
October	2 248,7	28,3	0,2	63,7	0,4	99
November	2 757,6	22,1	0,2	60,8	0,5	99
December	2 739,3	21,2	0,2	58,1	0,4	99
<b>Total</b>	<b>29 734,8</b>	<b>24,4</b>	<b>0,2</b>	<b>726,0</b>	<b>6,3</b>	<b>99</b>
<b>2014</b>						
January	2 566,4	23,2	0,2	59,4	0,6	99
February	2 072,7	28,8	0,1	59,7	0,3	99
March	2 557,4	25,0	0,2	64,0	0,4	99
April	2 112,3	27,4	0,1	57,9	0,3	100
May	2 485,7	15,9	0,2	39,6	0,5	99
June	2 309,2	25,6	0,3	59,2	0,6	99
July	2 082,9	27,2	0,2	56,6	0,5	99
August	2 382,6	29,1	0,3	69,2	0,7	99
September	1 957,8	30,7	0,1	60,2	0,2	100
<b>Total</b>	<b>20 526,9</b>	<b>25,6</b>	<b>0,2</b>	<b>525,8</b>	<b>4,1</b>	<b>99</b>



Kolpino District						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	3 983,5	37,0	9,7	147,4	38,7	74
February	3 688,1	36,1	9,7	133,1	35,7	73
March	3 877,2	37,9	9,8	146,9	38,2	74
April	4 546,9	32,2	8,9	146,3	40,4	72
May	4 430,1	36,1	8,9	159,8	39,4	75
June	3 719,1	35,2	9,3	131,0	34,5	74
July	3 784,9	30,6	9,3	115,9	35,1	70
August	3 985,8	31,6	9,6	125,9	38,1	70
September	3 950,6	32,1	9,4	126,8	37,2	71
October	3 925,3	36,0	10,1	141,2	39,6	72
November	3 825,8	31,0	9,9	118,4	38,1	68
December	3 723,4	32,7	10,1	121,7	37,6	69
<b>Total</b>	<b>47 440,5</b>	<b>34,0</b>	<b>9,5</b>	<b>1 614,4</b>	<b>452,6</b>	<b>72</b>
<b>2014</b>						
January	3 841,8	33,3	10,2	127,9	39,2	69
February	3 517,6	37,0	10,1	130,1	35,6	73
March	3 969,5	36,0	9,9	142,9	39,2	73
April	4 180,5	36,1	10,0	150,8	41,6	72
May	4 354,5	37,4	9,6	162,7	41,6	74
June	4 065,6	32,4	9,2	131,8	37,4	72
July	3 607,3	32,6	9,2	117,6	33,4	72
August	3 806,6	35,4	9,8	134,7	37,1	72
September	4 186,9	38,0	9,4	159,3	39,3	75
<b>Total</b>	<b>35 530,1</b>	<b>35,4</b>	<b>9,7</b>	<b>1 257,8</b>	<b>344,4</b>	<b>73</b>

**Appendix 2**

**Phosphorus removal efficiency on the WWTPs of SUE “Vodokanal of St.Petersburg”  
for 2013 and first 9 months of 2014**

Northern SA						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	27 921,0	5,7	1,0	159,1	26,5	83
February	19 812,0	6,4	0,5	126,8	9,3	93
March	21 658,0	8,2	0,7	177,6	14,5	92
April	23 968,0	5,6	0,5	134,2	12,9	90
May	22 430,0	6,7	0,4	150,3	9,6	94
June	18 200,0	7,9	0,4	143,8	6,4	96
July	20 562,0	4,8	0,3	99,3	5,8	94
August	21 189,0	5,8	0,3	122,9	6,6	95
September	19 855,0	5,1	0,5	101,3	9,1	91
October	25 770,0	4,4	0,3	113,9	8,8	92
November	31 546,0	4,1	0,2	128,4	6,9	95
December	29 618,0	3,7	0,2	108,7	6,8	94
<b>Total</b>	<b>282 529,0</b>	<b>5,5</b>	<b>0,4</b>	<b>1 566,3</b>	<b>123,3</b>	<b>92</b>
<b>2014</b>						
January	23 954,0	5,4	0,3	129,4	6,9	95
February	20 539,0	4,9	0,2	100,6	3,3	97
March	28 566,0	6,1	0,5	174,3	14,3	92
April	24 195,0	7,2	0,2	174,2	3,9	98
May	25 217,0	6,6	0,6	166,4	14,6	91
June	23 125,0	4,1	0,2	94,8	3,9	96
July	22 462,0	5,3	0,3	119,0	6,1	95
August	19 219,3	3,7	0,3	71,1	5,6	92
September	20 396,0	4,3	0,4	87,7	7,8	91
<b>Total</b>	<b>207 673,3</b>	<b>5,4</b>	<b>0,3</b>	<b>1 117,6</b>	<b>66,3</b>	<b>94</b>

Central SA						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	26 999,0	5,1	0,2	138,5	5,9	96
February	26 195,7	4,6	0,2	119,7	5,8	95
March	28 168,0	5,4	0,2	151,3	5,1	97
April	32 962,3	4,8	0,2	157,2	7,6	95
May	31 976,9	5,5	0,3	176,8	8,6	95
June	28 380,5	6,4	0,3	180,8	7,9	96
July	29 852,4	4,5	0,4	133,4	12,2	91
August	29 224,8	3,7	0,4	108,1	12,3	89
September	26 998,5	4,2	0,4	112,6	10,0	91
October	30 150,9	4,5	0,1	136,6	4,2	97
November	31 746,0	5,3	0,2	168,3	6,3	96
December	31 804,6	5,1	0,3	161,2	9,2	94
<b>Total</b>	<b>354 459,4</b>	<b>4,9</b>	<b>0,3</b>	<b>1 744,6</b>	<b>95,2</b>	<b>95</b>
<b>2014</b>						
January	33 158,3	5,9	0,4	195,6	12,6	94
February	30 206,3	5,3	0,2	160,1	5,4	97
March	26 769,8	5,9	0,2	157,9	5,6	96
April	24 415,3	7,5	0,4	183,1	9,3	95
May	29 567,0	5,2	0,3	153,7	8,6	94
June	28 482,5	4,7	0,1	133,9	4,0	97
July	23 201,0	5,0	0,2	116,0	4,4	96
August	30 527,3	4,3	0,3	131,3	8,5	93
September	26 316,4	4,0	0,4	105,3	9,5	91
<b>Total</b>	<b>252 643,9</b>	<b>5,3</b>	<b>0,3</b>	<b>1 336,9</b>	<b>67,9</b>	<b>95</b>

South-West WWTP						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	6 924,0	4,8	0,3	33,0	2,2	93
February	5 946,9	5,8	0,3	34,7	1,5	96
March	6 515,0	7,3	0,5	47,6	3,2	93
April	8 079,0	5,1	0,4	41,4	3,4	92
May	7 540,5	5,3	0,5	39,7	3,9	90
June	6 073,7	6,7	0,6	40,5	3,6	91
July	6 438,3	5,4	0,3	35,0	1,6	95
August	6 745,9	5,0	0,2	33,7	1,4	96
September	6 135,0	6,1	0,3	37,6	1,8	95
October	6 514,3	7,1	0,3	46,3	2,1	95
November	7 298,7	6,8	0,2	49,6	1,4	97
December	7 106,0	7,7	0,3	54,7	2,1	96
<b>Total</b>	<b>81 317,4</b>	<b>6,1</b>	<b>0,3</b>	<b>493,8</b>	<b>28,3</b>	<b>94</b>
<b>2014</b>						
January	7 123,9	6,4	0,2	45,6	1,6	97
February	6 261,0	5,5	0,2	34,4	1,3	96
March	7 124,4	5,5	0,3	39,2	1,9	95
April	6 497,1	6,1	0,3	39,6	1,9	95
May	7 148,0	6,7	0,4	47,9	2,7	94
June	6 784,3	5,0	0,3	33,9	2,0	94
July	5 879,6	4,8	0,5	28,2	2,6	91
August	6 258,2	5,2	0,5	32,5	3,3	90
September	5 962,4	5,7	0,3	34,0	2,0	94
<b>Total</b>	<b>59 038,8</b>	<b>5,7</b>	<b>0,3</b>	<b>335,4</b>	<b>19,4</b>	<b>94</b>

Kurortny District						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	2 511,7	4,3	0,4	10,8	1,0	90
February	2 074,7	5,5	0,3	11,3	0,6	95
March	2 281,6	4,4	0,3	10,1	0,8	93
April	3 085,9	2,4	0,3	7,5	0,9	88
May	3 053,8	2,5	0,6	7,8	1,8	77
June	2 385,4	3,3	0,2	7,8	0,6	93
July	2 293,4	3,5	0,3	8,1	0,8	91
August	2 318,0	3,8	0,3	8,8	0,6	93
September	1 984,7	4,8	0,3	9,6	0,6	93
October	2 248,7	4,6	0,3	10,3	0,8	93
November	2 757,6	2,8	0,2	7,6	0,7	91
December	2 739,3	3,6	0,2	9,8	0,6	94
<b>Total</b>	<b>29 734,8</b>	<b>3,7</b>	<b>0,3</b>	<b>109,4</b>	<b>9,7</b>	<b>91</b>
<b>2014</b>						
January	2 566,4	3,5	0,3	9,0	0,8	91
February	2 072,7	4,3	0,3	8,8	0,6	93
March	2 557,4	3,6	0,3	9,3	0,7	93
April	2 112,3	4,7	0,2	10,0	0,5	95
May	2 485,7	4,3	0,3	10,6	0,8	92
June	2 309,2	3,2	0,4	7,4	0,9	88
July	2 082,9	4,9	0,4	10,3	0,9	91
August	2 382,6	4,4	0,4	10,5	0,8	92
September	1 957,8	4,8	0,2	9,3	0,4	95
<b>Total</b>	<b>20 526,9</b>	<b>4,2</b>	<b>0,3</b>	<b>85,4</b>	<b>6,4</b>	<b>92</b>

Kolpino District						
2013	Effluent flow, 10 <sup>3</sup> m <sup>3</sup> /month	Concentration, mg/l		Amount, tons		Removal efficiency
		inlet	outlet	inlet	outlet	%
January	3 983,5	4,3	0,2	17,2	1,0	94
February	3 688,1	4,5	0,3	16,4	1,3	92
March	3 877,2	4,8	0,4	18,4	1,4	93
April	4 546,9	4,3	0,4	19,4	1,8	91
May	4 430,1	4,6	0,4	20,2	1,6	92
June	3 719,1	4,6	0,4	17,2	1,5	91
July	3 784,9	3,5	0,4	13,3	1,6	88
August	3 985,8	4,0	0,4	15,8	1,7	89
September	3 950,6	4,4	0,4	17,4	1,7	90
October	3 925,3	5,0	0,4	19,5	1,6	92
November	3 825,8	4,5	0,4	17,2	1,7	90
December	3 723,4	4,7	0,4	17,4	1,5	92
<b>Total</b>	<b>47 440,5</b>	<b>4,4</b>	<b>0,4</b>	<b>209,4</b>	<b>18,3</b>	<b>91</b>
<b>2014</b>						
January	3 841,8	4,8	0,4	18,4	1,7	91
February	3 517,6	5,0	0,4	17,8	1,5	92
March	3 969,5	4,2	0,4	16,5	1,6	90
April	4 180,5	4,6	0,5	19,1	1,9	90
May	4 354,5	4,4	0,5	19,3	2,0	90
June	4 065,6	3,2	0,4	13,2	1,8	86
July	3 607,3	4,2	0,4	15,2	1,4	90
August	3 806,6	4,2	0,4	15,9	1,7	89
September	4 186,9	4,5	0,5	18,8	2,0	90
<b>Total</b>	<b>35 530,1</b>	<b>4,3</b>	<b>0,4</b>	<b>154,3</b>	<b>15,6</b>	<b>90</b>