Data set on the whole analytical result of WP4 D 4.2.3

Annex to the Progress Report VI January 2022 Version n.1

PROJECT AdSWiM

Work Package:	WP 4 - Innovative solutions in analytical, microbiological controls and to treat urban wastewaters (UWW)
Activity:	 4.2 Innovative Analytical Methods/Devices (IAMD) Nutrients and trace elements 4.6 IAMD_Results analysis
Phase Leader:	UNIVPM
Deliverable:	D 4.2.3

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PART 1: INTRODUCTION

One dataset, that collects all results provided by the PPs involved in the WP4 was designed by Univpm, OGS, CAFC, Uniud, PHI and published in open access mode from National Institute of Oceanography and Experimental Geophysics - OGS, Division of Oceanography (doi=10.13120/j23k-n088).

The data set is accessed by the link

https://nodc.inogs.it/catalogs/doidetails;jsessionid=428B3F91CE5D3FA653A564671BEEC31A?0&doi=10. 13120/j23k-n088

The file collects all the parameters investigated during the entire framework of the AdSWiM project, from all the partners involved in analytical determinations.

PART 2: DATASET ORGANIZATION AND PARAMETERS

The dataset is organized in an excel file, designed as following:

1. Vertical bar (from top to bottom):

- Depuration Plant, in order: Zadar Upov Centar Water Treatment Plant, Split Katalinića brig Water Treatment Plant, Split Stobreć Water Treatment Plant, Lignano Sabbiadoro Water Treatment Plant, San Giorgio di Nogaro Water Treatment Plant.
- Sea Sites, in order: Zadar Upov Centar, Split Katalinića brig, Split Stobreč, Lignano Sabbiadoro, San Giorgio di Nogaro, Francavilla al mare
- Francavilla al Mare Water Treatment Plant

Vertical disposition followed the time series for each site (from 2019 to 2020)

- 2. Horizontal bar (from left to right):
 - Time and Site characteristics: Station name, date/time, type, latitude, longitude, bottom depth, month, year;
 - Probe parameters: Temperature (°C), Salinity (psu), Density (σT), Turbidity (NTU), pH, Dissolved Oxygen (mg/L), Oxygen saturation (O₂%).
 - Nutrient concentrations (μg/L): Ammoniacal nitrogen N-NH₃, Nitrous nitrogen N-NO₂, Nitric Nitrogen N-NO₃, Dissolved Inorganic Nitrogen, Ortophosphate P-PO₄, Silicates Si-SiO₂.
 - Microbiological parameters (cfu/100ml): Pseudomonas Aeruginosa, Escherichia Coli, Enterococci.

- Dissolved metals concentrations (ng/L): Dissolved Mercury, Dissolved Cadmium, Dissolved Arsenic.
- Antibiotic-Resistance (A. R) genes (gene copies/copies of 16S rRNA): intl1, blaOXA, blaCTXM, blaTEM, tetA, mcr1, qnrS, ermB, sul2.

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production produci	1	Lienano Sabbiadoro Water Treatment Blant	15-09	2019-06-27	Lignano DP	2019	1	11	11	1	1	1	1	137.0	95.0	5385.7	5615.6	391.8	4238 1	7	23900	7000	1	1	1	2.452-02+1.00		+100	ŕ
Import Numerity Import Num	L	Lienano Sabbiadoro Water Treatment Plant	LS-DP	2019-07-17	Lignano DP	2019	1	1	17	1	1	1	1	191.2	601.9	\$\$77.5	6370.5	1480.3	1537.5	20	2100	800	16.4	12.1	1076	1755-02 +LOO		+1.00	
Import Transmitty Import	ſ	Lienano Sabbiadoro Water Treatment Plant	15-09	2019-05-29	Lignano DP	2019	1	11	17	1	1	1	1	7.6	54.5	6239.5	6301.9	1299.6	4091.4	0	1440	250	23.0	24.5	1077	1.972-62	0.000 + 01	0 0000+	i,
upper biblicity unit human huma	F	Lienano Sabbiadoro Water Treatment Plant	LS-DP	2019-10-08	Lignano DP	2019	1	1	1	1	1	1	1	\$7.6	20.1	3943.3	4029.9	1766.3	3427.7	4	66	78	45	32.3	1251	6.972.03	0.000 +00	0.000.+	
	Ŀ	Lignano Sabbiadoro Water Treatment Plant	15-0P	2020-04-27	Lignano DP	2020	1	1	1	1	1	1	1	2210.3	127.7	1305.9	3543.9	363.6	1275.4	0	48600	15600	6.6	40.5	354	1295-02 +LOO		0.002+	
upper biblic books upper b	Ŀ	Lignano Sabbiadoro Water Treatment Plant	LS-DP	2020-05-27	Lignano DP	2020	1	1	1	1	1	1	1	248.0	128.0	1001.1	4269.4	642.9	2382.7	110	17200	2870	6.2	16.08	104	7.625.63	4962.02	4100	
Import numerical large la	Ľ	Listneno Sabbiadoro Water Treatment Plant	15-09	2020-06-24	Lignano DP	2020	1	1	1	1	1	1	1	2054.4	1204.5	7056.6	10295.7	1626.3	4601.5	0	1320	560	5.6	15.67	622	6.045-03	0.0000+00	04100	
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Import Numeric	ŀ	Lignano Sabbiadoro Water Treatment Plant	LS-DP	2020-09-02	Lignano DP	2020	1	1	1	1	1	1	1	36.5	9.4	2643.5	2659.5	2051	1630.4	0	490	112	23.4	4.59	73	2.195-02 +1.00		0.000+	
participant procession frameworks Sold Biological graph wave frameworks Sold Sold </td <td>Ŀ</td> <td>Lignano Sabbiadoro Water Treatment Plant</td> <td>15-07</td> <td>2020-10-01</td> <td>Lignano DP</td> <td>2020</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>19.4</td> <td>5.6</td> <td>401.4</td> <td>426.4</td> <td>363.9</td> <td>1383.5</td> <td>190</td> <td>30</td> <td>150</td> <td>19.2</td> <td>7.48</td> <td>556</td> <td>1.430-02 <1.00</td> <td></td> <td>0.000-</td> <td>ŝ</td>	Ŀ	Lignano Sabbiadoro Water Treatment Plant	15-07	2020-10-01	Lignano DP	2020	1	1	1	1	1	1	1	19.4	5.6	401.4	426.4	363.9	1383.5	190	30	150	19.2	7.48	556	1.430-02 <1.00		0.000-	ŝ
Interpretation 969 201-063 Marcon 1/2 / <th<< td=""><td>ľ</td><td>San Giorgio di Nogaro Water Treatment Plant</td><td>5G-0P</td><td>2019-04-30</td><td>San Giorgio DP</td><td>2019</td><td>1</td><td>1</td><td>17</td><td>1</td><td>1</td><td>1</td><td>1</td><td>293.8</td><td>37.7</td><td>115.1</td><td>447.5</td><td>139.6</td><td>3995.6</td><td>140</td><td>12</td><td>15</td><td>11.9</td><td>2.7</td><td>70</td><td>2.112-02</td><td>0.000 +0/</td><td>00.1>6</td><td>ĵ</td></th<<>	ľ	San Giorgio di Nogaro Water Treatment Plant	5G-0P	2019-04-30	San Giorgio DP	2019	1	1	17	1	1	1	1	293.8	37.7	115.1	447.5	139.6	3995.6	140	12	15	11.9	2.7	70	2.112-02	0.000 +0/	00.1>6	ĵ
Sindegraft Sindegr	ŀ	San Giorgio di Nogaro Water Treatment Plant	50-09	2019-05-26	San Giorgio DP	2019	1	1		1	1	1	1	491.2	56.1	4143	961.6	125.6	3395.4	1	7	0	28.4	4.5	71	1.820-02	0.000+01	0 0000+	ŝ
incorportant Sector S	ŀ	San Giorgio di Nogaro Water Treatment Plant	5G-0P	2019-06-27	San Giorgio DP	2019	1	1	1	1	1	1	1	1167.2	22.5	25.1	1214.8	100.9	4460.9	0	15	1	1	1	Ĩ.	1052-02	0.000 +0/	a 0.000-+	ŝ
Biologic Super Numer Numer Numer Soft Biologic Super Numer Numer Soft Biologic Super Numer Nume	F	San Giorgio di Nogaro Water Treatment Plant	56-09	2019-07-17	San Giorgio DP	2019	1	1		1		1	1	231.5	17.9	250.2	499.5	375.1	6452.3	190	117	112	27.6	142	45	9.645-03 +LOO		100	
Interpretation framework 960 2331-200 1// 1/	ŀ	San Giorgio di Nogaro Water Treatment Plant	59-09	2019-05-29	San Giorgio DP	2019	1	1	1	1	1	1	1	45.9	28.8	300.3	373.0	277.5	5804.0	220	2000	1120	29.7	23.6	42	5.090-02	0.000 +01	O TACE	
interpretation returner with start Start Else Series Start	L	San Giorgio di Nogaro Water Treatment Plant	\$0-0P	2019-10-08	San Giorgio DP	2019	1	1	1	1		1	1	110.1	13.8	1105.3	1227.1	163.7	2470.4	70	30	310	\$.7	16.4	43	2,112-02	0.000 +01	3 0.00E+	ŝ
is beging mark market by by 560 220-502 Market by Markt by Market by Markt by		San Giorgio di Nogaro Water Treatment Plant	59-0P	2020-04-27	San Giorgio DP	2020	1	/	1	1	1	1	1	4132.0	15.5	27.0	4174.4	143.3	1418.0	90	46600	3	9.4	<0.5	<13	5,245-03	0.000+0/	0 0.000+	í
bit object with the method with the met		San Giorgio di Nogaro Water Treatment Plant	5G-0P	2020-05-27	San Giorgio DP	2020	1	1	1	1	1	1	1	2685.9	103	11.6	2707.8	84.5	2669.7	400	17200	208	13.5	<0.5	<13	1.315-02	0.000 +01	5 CODE+	ŝ
bit obstrate 1000		San Giorgio di Nogaro Water Treatment Plant	55-04	2020-06-24	San Giorgio DP	2020				1		1	1	3223.5	35.4	43.9	3302.8	202.0	\$207.0	43	1520	35	13.6	1.53	119	1.430-02	0.000 + 07	0 0.002+	í
bit	ŀ	San Giorgio di Nogaro Water Treatment Plant	50-00	2020-07-29	San Giorgio DP	2020	1	1	1	1		1	1	3841	7.7	2.9	194.7	2262.9	7122.3	0	62000	\$400	14.9	2.45	43	1.045-02	0.000-07	a cost+	ŝ
bit operator 1000	k	San Giorgio di Nogaro Water Treatment Plant	50-09	2020-09-02	San Giorgio DP	2020	1	1		1	1	1	1	1954.3	75.3	2990.4	50501	85.7	735.5	760	490	450	15.5	3.14	114	5,240-03	0.000 +01	3 0.00E+	ŝ
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Imagescreter 2264. 229-58 2564. 202 163 164 17 17 11 11 116	Ľ	Zadar Upov Centar	ZD-SEA	2019-07-30	ZD-SEA	2019	24.0	38.3	26.2	0.5	8.2	80	116.1	0.4	0.65	1.81	2.56	0.5	34.3	0	0	0	9.6	32.7	756.2	1	1	1	ľ
Durruge (etr. 2044. 2014-81 2044. 201 213 MB MB MB MB MB MB ////////////////////////////////////		Zadar Upov Centar	ZD-SEA	2019-07-30	ZD-SEA	2019	15.0	38.4	27.9	0.7	8.2	8.7	113.0	18	0.72	1.87	4.43	0.7	41.2	0	0	0	14.2	26.1	713.9	1.30E-04 <loo< td=""><td></td><td>6.000+</td><td>į</td></loo<>		6.000+	į
Durruge centr 2544. 2010-041 D-264. 2010 167 187 14 0.0 187 187 120 14 0.0 181 141 0.0 141 0.0 141 0.0	ľ	Zadar Upov Centar	ZD-SEA	2019-09-13	ZD-SEA	2019	22.5	38.6	26.5	0.5	8.0	8.5	114.8	0.5	0.47	5.92	6.59	0.4	25.5	8267	0	0	6.7	30.0	661.9	1	1		
Imaging other 2044. 2014.27 E-564. 2013 81.8 17.7 21.2 81.4 61.0 18.0 61.0 </td <td>Ł</td> <td>Zadar Upov Centar</td> <td>ZD-SEA</td> <td>2019-09-13</td> <td>20-5EA</td> <td>2019</td> <td>16.7</td> <td>38.7</td> <td>28.4</td> <td>0.8</td> <td>81</td> <td>7.9</td> <td>100.3</td> <td>12</td> <td>3.34</td> <td>13.62</td> <td>18.15</td> <td>14</td> <td>186.5</td> <td>16333</td> <td>37</td> <td>55</td> <td>12.9</td> <td>24.8</td> <td>227.9</td> <td>8.112-05</td> <td>0.000 + 00</td> <td>0.00E+</td> <td>ŝ</td>	Ł	Zadar Upov Centar	ZD-SEA	2019-09-13	20-5EA	2019	16.7	38.7	28.4	0.8	81	7.9	100.3	12	3.34	13.62	18.15	14	186.5	16333	37	55	12.9	24.8	227.9	8.112-05	0.000 + 00	0.00E+	ŝ
Darryworker 254A 2024/2 2554A 2020 35 14 17 14 17 14 17 14 10 000 0	E	Zadar Upov Centar	ZD-SEA	2019-11-07	ZD-SEA	2019	19.1	37.5	27.7	1.2	81	8.0	106.5	0.1	1.43	5.45	6.97	1.9	5.5	94667	35	85	8.2	19.0	791.5	1			
Date upper center 2544. 2020-642 15-64A. 2020 43 148 148 64 11 100 0<	F	Zadar Upov Centar	20-SEA	2019-11-07	ZD-SEA	2019	19.0	38.6	27.8	14	81	7.6	100.4	0.2	3.14	10.55	14.23	2.3	20.5	11200	8	24	7.5	19.7	415.4	1.312-04	0.000-00	0.000+	ŝ
Darryson centry 2544 2020-041 2544 2020 120 134 412 120 14 120 1 120 1 120 1 120 1 120 1 120 1 120 14 120 14 120 1 120 14 120 1 120 1 120 1 120 1 120 1 120 1 120 120 1 120 1 120 120 1 120 12	Ł	Zadar Upov Centar	ZD-SEA	2020-04-22	ZD-SEA	2020	14.5	38.6	28.9	0.4	8.0	8.7	105.2	0.1	0.27	3.76	4.16	0.4	81	800	0	0	40.6	2.8	1004.4	1			
Duringsoftem: 254A 2020-041 254A 2020 15 84 17 64 81 181 04 841 413 0	Ľ	Zadar Upov Centar	20-SEA	2020-04-22	ZD-SEA	2020	12.6	38.5	29.2	0.6	8.0	8.9	104.9	0.3	0.85	3.41	4.57	13	19.7	967	3	2	1.6	12	1013 5	/			
Date upon center 2544. 2020-041 2544. 254 254 254 254 254 254 254 254 254 254 254 254 254 254 254	Ł	Zadar Upov Centar	ZD-SEA	2020-05-18	ZD-SEA	2020	18.5	38.4	27.8	0.6	81	8.6	112.1	0.8	1.54	9.55	11.95	0.6	34.1	4533	0	0	0.9	0.8	1018.6	1			
Darryspecters 2044. 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 2020 44 15.84 1	Ł	Zadar Upov Centar	2D-SEA	2020-05-15	20-58A	2020	14.9	35.6	25.5	0.7	81	9.1	111.2	0.7	0.93	5.95	7.65	0.6	16.0	5033	0	3	6.2	<0.5	1075.5	1	1	1	
Darryson centry 2544. 2000-47 2544. 2000 470 481 92 64 91 284 2000 7 481 92 64 91 284 90 285 2000 7 481 92 64 91 284 92 93 649 12 124 1	Ľ	Zadar Upov Centar	ZD-SEA	2020-06-18	ZD-SEA	2020	21.8	38.6	27.0	0.4	8.1	7.5	104.2	0.9	2.08	11.65	14.65	0.8	16.0	27667	0	0	<0.6	8.4	1257.6	1			
Dataryon certar 2564.x 2020 4/2 2564.x 256 4/2 2564.x 256 4/2 2564.x 256 4/2	E	Zadar Upov Centar	20-SEA	2020-06-15	20-SEA	2020	17.4	38.6	28.2	0.0	8.5	7.9	101.0	3.0	0.53	0.05	4.60	1.0	69.7	236667	2	3	<0.6	12	1245.0	1.89C-04 +LDQ		6.00E+	•
Darryworker 2044. 2020-72 E-D44. 2020 157 814 151 171 151	E	Zadar Upov Centar	ZD-SEA	2020-07-27	ZD-SEA	2020	25.5	38.9	26.8	0.2	8.1	7.7	110.7	2.9	2.15	8.23	8.55	0.7	15.9	220000	0	0	14.1	45	693.2	1.			
Darruge term 2544 2020-042 E-544 2020 145 85 65 81 17 114 64 0.80 158 213 0.3 12 126 0 183 2.7 79°1 /	Ł	Zadar Upov Centar	20-58A	2020-07-27	ZD-SEA	2020	16.7	38.0	28.5	1.1	81	7.0	99.1	1.3	1.22	7.05	9.54	1.6	102.8	165000	4	4	11.3	1.7	840.4	1			
Description Distribution Distribution </td <td>Ł</td> <td>Zadar Upov Centar</td> <td>ZD-SEA</td> <td>2020-08-25</td> <td>ZD-SEA</td> <td>2020</td> <td>24.9</td> <td>38.8</td> <td>25.6</td> <td>0.5</td> <td>8.1</td> <td>7.7</td> <td>113.4</td> <td>0.6</td> <td>0.30</td> <td>1.86</td> <td>2.25</td> <td>0.2</td> <td>8.2</td> <td>1067</td> <td>0</td> <td>0</td> <td>19.5</td> <td>2.7</td> <td>797.1</td> <td>1</td> <td></td> <td></td> <td></td>	Ł	Zadar Upov Centar	ZD-SEA	2020-08-25	ZD-SEA	2020	24.9	38.8	25.6	0.5	8.1	7.7	113.4	0.6	0.30	1.86	2.25	0.2	8.2	1067	0	0	19.5	2.7	797.1	1			
Darryson former 2264.4 2000-0041 E-564.4 2000 20.4 MB 7/4 63 143 153 0.7 53.2 207 5 10 67 57 799.2 / <td>Í.</td> <td>Zadar Upov Centar</td> <td>20-58A</td> <td>2020-08-26</td> <td>ZD-SEA</td> <td>2020</td> <td>17.9</td> <td>38.8</td> <td>28.2</td> <td>0.8</td> <td>81</td> <td>8.0</td> <td>104.2</td> <td>1.4</td> <td>0.66</td> <td>1.22</td> <td>3.29</td> <td>1.2</td> <td>31.2</td> <td>867</td> <td>0</td> <td>0</td> <td>17.5</td> <td>1.9</td> <td>836.4</td> <td>1</td> <td></td> <td></td> <td></td>	Í.	Zadar Upov Centar	20-58A	2020-08-26	ZD-SEA	2020	17.9	38.8	28.2	0.8	81	8.0	104.2	1.4	0.66	1.22	3.29	1.2	31.2	867	0	0	17.5	1.9	836.4	1			
Partypic fermi 2564.8 2020-09-10 2564.8 2020 217 88.8 24.8 25 76.1 11.4 16 14.61 266 25 8 16 15 150.0 2006.00 0007.00 <t< td=""><td>Ł</td><td>Zadar Upov Centar</td><td>ZD-SEA</td><td>2020-09-29</td><td>ZD-SEA</td><td>2020</td><td>20.4</td><td>35.6</td><td>27.4</td><td>0.5</td><td>81</td><td>7.6</td><td>102.7</td><td>0.6</td><td>2.82</td><td>12.50</td><td>15.73</td><td>0.7</td><td>39.2</td><td>2767</td><td>5</td><td>10</td><td>8.7</td><td>5.7</td><td>758.2</td><td>/</td><td></td><td></td><td></td></t<>	Ł	Zadar Upov Centar	ZD-SEA	2020-09-29	ZD-SEA	2020	20.4	35.6	27.4	0.5	81	7.6	102.7	0.6	2.82	12.50	15.73	0.7	39.2	2767	5	10	8.7	5.7	758.2	/			
Spirounicity P4-684. 2020-P4-58. P4-684. 2020-P4-58. P4-684. P200-P4-58. P4-684. P200-P4-58. P4-684. P200-P4-58. P4-684. P200-P4-58. P4-684.	Í.	Zadar Upov Centar	20-56A	2020-09-29	20-58A	2020	17.2	38.0	28.4	0.5	81	7.2	92.2	1.6	2.80	7.01	11.42	1.6	145.1	4667	29		9.4	5.0	850.8	2.600-04	0.000 + 00	2 0.002+	ś
Protectional by group and a 2000-01 protection by group and a 2000-01 prot	Ł	Spit katalnića brig	SP-KB-SEA	2019-07-51	\$2-18-58A	2019	24.7	37.1	25.0	0.5	8.1	8.1	119.3	0.6	0.36	5.44	6.39	0.4	18.4	0	0	0	51	39.8	804	/			
Spituazalnicka brg \$4-65-58A 2020-02-27 \$4-65-58A 2020 1258 378 284 05 80 87 1245 06 140 1409 1710 07 467 873 21 15 72 5.4 995 / / /	ľ	Spit Katalnića brig	SP-KB-SEA	2019-07-31	SP-KB-SEA	2019	\$5.7	38.7	28.7	0.8	8.1	8.3	103.4	0.6	0.25	5.60	6.54	0.6	63.4	14	247	367	4.6	35.5	169	1.362-03	0.000 + 000	0.002+	*
	2	Spit katalnića brig	SP-KB-SEA	2020-02-27	\$2-18-58A	2020	15.8	57.8	28.4	0.5	8.0	8.7	104.5	0.6	2.40	14.09	17.10	0.7	46.7	875	21	15	7.2	5.4	995	1	1		

PART 3: LEGEND

A legend was insert at the bottom of the table to help readers understand the charted data

Limits of Detection (LOD) for each parameter were calculated by every singular partner with his own method, available in the singular technical report of each PPs. The values determined in concentrations below to LOD are reported in the dataset as "<number".

The same provisions applied for LOD are applied also at the Limits of Quantification (LOQ).

Concerning Antibiotic-Resistance genes parameters, whenever the gene is present but it is not quantifiable, the wording "NQ" (Not Quantifiable) is applied in the cell of belonging.

Whenever a value was not determined, the symbol " / " was applied in the cell of belonging.