

# ISO 16075-4:2016-12 (E)

## Guidelines for treated wastewater use for irrigation projects - Part 4: Monitoring

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
3.1	General .....	1
3.2	Use of treated wastewater (TWW) .....	3
3.3	Wastewater quality .....	4
3.4	Irrigation systems .....	5
3.5	Wastewater system related components .....	7
3.6	Abbreviated terms .....	8
<b>4</b>	<b>Monitoring of the quality of TWW for irrigation .....</b>	<b>9</b>
4.1	General .....	9
4.2	Sampling procedure .....	10
4.2.1	Sampling from an irrigation system .....	11
4.2.2	Sampling from a storage reservoir .....	12
4.2.3	Composite sample .....	12
4.2.4	Sample handling .....	12
4.3	TWW monitoring plan .....	12
4.4	Analytical methods for TWW .....	15
<b>5</b>	<b>Monitoring of the irrigated crops .....</b>	<b>15</b>
5.1	General .....	15
5.2	Frequency of monitoring .....	15
5.2.1	Field crops and vegetables .....	15
5.2.2	Perennial crops .....	16
<b>6</b>	<b>Monitoring of the soil with regard to salinity .....</b>	<b>16</b>
6.1	Soil sampling .....	16
6.2	Frequency of the soil sampling .....	16
6.3	Sampling procedure .....	17
6.3.1	Drip irrigation .....	17
6.3.2	Sprinkler and micro-jet irrigation .....	17
6.3.3	Sample preparation .....	17
6.4	Soil test methods .....	17
<b>7</b>	<b>Receiving environment monitoring .....</b>	<b>18</b>
7.1	General .....	18
7.2	Monitoring program purpose .....	18
7.3	Groundwater sampling .....	18
7.4	Surface water sampling .....	19
<b>8</b>	<b>Quality assurance and quality control .....</b>	<b>19</b>
Bibliography .....		21