

ANNEX ACT10-1

1 - Overview of the pilot area



Fig. 2 – Layout of the pilot area

OOMW SOURCE	BUFFER ZONE	TERRE BARONE	TERRE BARONE	CONTROL	MAFFEI	MAFFEI
TREATMENT NUMBER	1	2	3	4	5	6
SURFACE	260 m ²	270 m ²	300 m ²	360 m ²	280 m ²	340 m ²
PRESENCE OF WELL		X	X	X	X	X

Table 1 – Details regarding OMWW and olive husks distributed in the different plots (refer to Fig. 1).

Treatment	Source (olive mill)	Oil extraction technique	OMWW or olive husks distributed (l or Kg/treatment)	Treatments (num.)	Corresponding volume or mass m ³ /ha/year or t/ha (rounded)
1	Terre Barone	3 phases (continuous)	1700 (olive husk) only in 2011	1	100 t/ha [^]
2	Terre Barone	3 phases (continuous)	500	3	80 m ³ /ha/year *
3	Terre Barone	3 phases (continuous)	800	3	120 m ³ /ha/year **
4	Control	-	1000 (water)	3	81,25 m ³ /ha/year
5	Maffei	Traditional (discontinuous)	300	3	50 m ³ /ha/year *
6	Maffei	Traditional (discontinuous)	600	3	75 m ³ /ha/year **

[^] no specific limits foreseen

* established by the Italian law

** correspondent to the threshold established by the law + 50%

Table 2 – Overview of the chemical parameters analyzed according to the different samples collected.

Sample kind	Sampling notes	Parameters taken in consideration
OMWW distributed	Drawn from the plastic containers	pH – CE – K – Sulphates – P – Phosphates – Ammonium – Nitrates – COD – BOD – total oily matters – polyphenols – tensioactive compounds
Leachate	Drawn from the wells	pH – CE – K – Sulphates – P – Phosphates – Ammonium – Nitrates – COD – BOD - polyphenols
Soil	At 2 different depths: 0 – 20 cm 30 – 50 cm	pH – CE – K tot – K exchangeable – Sulphates – P tot – P assimilable – Ca exchangeable – Mg exchangeable – Phosphates – Ammonium – Nitrates – COD – BOD - polyphenols – total oily matters – tensioactive compounds

Table 3 – Overview of the number of analysis carried out in Prosodol project

Type of analysis	Number of analysis*	Samples collected
OMWW distributed	72	6 per each olive mill
Leachates collected in the wells	379	45
Soil	745	48
TOTAL	1196	99

*considering all the parameters analysed for each sample