



UNIVERSITÀ DEGLI STUDI DI NAPOLI "FEDERICO II"

DIPARTIMENTO DI CHIMICA

Complesso Universitario di Monte Sant'Angelo  
Via Cinthia - 80126 Napoli

INDAGINI CHIMICHE E CHIMICO-FISICHE CONDOTTE SUI  
FANGHI PRESENTI ALL'INTERNO DEL COMPLESSO TERMALE  
***“Bagno Donn’Anna S.r.l.”***  
SITO IN VIA POSILLIPO A NAPOLI

*Relazione finale del prof. Marco Trifuoggi*

NAPOLI, 21 FEBBRAIO 2006.

**Indagini eseguite in laboratorio sui fanghi presenti all'interno del complesso termale:  
Bagno Donn'Anna – via Posillipo, 19 - Napoli**

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<b>RISULTATI ANALISI</b>							
<b>Analisi richieste</b>	<b>Campioni</b>				<b>Valore limite o guida</b>	<b>Metodo d'analisi</b>	<b>Unità di misura</b>
	<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>			
<b>Alifatici clorurati non cancerogeni</b>							
Benzene	< 0,005	---	---	---	---	6410-A e -B	mg/Kg
Etilbenzene*	< 0,005	---	---	---	---	6410-A e -B	mg/Kg
Stirene*	< 0,005	---	---	---	---	6410-A e -B	mg/Kg
Toluene*	< 0,005	---	---	---	---	6410-A e -B	mg/Kg
Xilene*	< 0,005	---	---	---	---	6410-A e -B	mg/Kg
Somma organici (con *)	< 0,005	---	---	---	---	6410-A e -B	mg/Kg
<b>Alifatici clorurati cancerogeni</b>							
Clorometano	< 0,005	---	---	---	---	6232-B	mg/Kg
Diclorometano	< 0,005	---	---	---	---	6232-B	mg/Kg
Triclorometano	< 0,005	---	---	---	---	6232-B	mg/Kg
Cloruro di vinile	< 0,005	---	---	---	---	6232-B	mg/Kg
1,2-Dicloroetano	< 0,005	---	---	---	---	6232-B	mg/Kg
1,1-Dicloroetilene	< 0,005	---	---	---	---	6232-B	mg/Kg
1,2-Dicloropropano	< 0,005	---	---	---	---	6232-B	mg/Kg
1,1,2-Tricloroetano	< 0,005	---	---	---	---	6232-B	mg/Kg
Tricloroetilene	< 0,005	---	---	---	---	6232-B	mg/Kg
1,2,3-Tricloropropano	< 0,005	---	---	---	---	6232-B	mg/Kg
1,1,2,2-Tetracloroetano	< 0,005	---	---	---	---	6232-B	mg/Kg
Tetracloroetilene (PCE)	< 0,005	---	---	---	---	6232-B	mg/Kg
<b>Alifatici clorurati non cancerogeni</b>							
1,1-Dicloroetano	< 0,005	---	---	---	---	6232-B	mg/Kg
1,2-Dicloroetilene	< 0,005	---	---	---	---	6232-B	mg/Kg
1,1,1-Tricloroetano	< 0,005	---	---	---	---	6232-B	mg/Kg
<b>Alifatici alogenati cancerogeni</b>							
Tribromometano (bromoformio)	< 0,005	---	---	---	---	6232-B	mg/Kg
1,2-Dibromoetano	< 0,005	---	---	---	---	6232-B	mg/Kg
Dibromoclorometano	< 0,005	---	---	---	---	6232-B	mg/Kg
Bromodiclorometano	< 0,005	---	---	---	---	6232-B	mg/Kg



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RISULTATI ANALISI							
Analisi richieste	Campioni				Valore limite o guida	Metodo d'analisi	Unità di misura
	01	02	03	04			
<b>Fenoli non clorurati</b>							
Metilfenolo (o-, m-, p-)	< 0,005	---	---	---	---	6220-D	mg/Kg
Fenolo	< 0,005	---	---	---	---	6220-D	mg/Kg
<b>Idrocarburi – oli minerali</b>							
Idrocarburi leggeri (C<12)	50	---	---	---	---	EPA 8260B; EPA 8021B	mg/Kg
Idrocarburi pesanti (C>12)	250	---	---	---	---	6410-A e -B	mg/Kg
Somma oli minerali, idrocarburi disciolti o emulsionati (compresi C<12 e C>12)	470	---	---	---	---	5520-C	mg/Kg
<b>Metalli</b>							
Antimonio	< 1	---	---	---	---	3125-B	mg/Kg
Arsenico	12	---	---	---	---	3125-B	mg/Kg
Berillio	2,5	---	---	---	---	3125-B	mg/Kg
Cadmio	1	---	---	---	---	3125-B	mg/Kg
Cobalto	2	---	---	---	---	3125-B	mg/Kg
Cromo totale	2	---	---	---	---	3125-B	mg/Kg
Mercurio	< 0,1	---	---	---	---	3125-B	mg/Kg
Nichel	1	---	---	---	---	3125-B	mg/Kg
Piombo	28	---	---	---	---	3125-B	mg/Kg
Rame	3	---	---	---	---	3125-B	mg/Kg
Selenio	< 1	---	---	---	---	3125-B	mg/Kg
Stagno	2	---	---	---	---	3125-B	mg/Kg
Tallio	1	---	---	---	---	3125-B	mg/Kg
Vanadio	44	---	---	---	---	3125-B	mg/Kg
Zinco	53	---	---	---	---	3125-B	mg/Kg

Napoli, 21 febbraio 2006

IL CHIMICO ANALISTA

(Prof. Marco Trifuoggi)

IL DIRETTORE

(Prof. Vincenzo Pavone)