



**INTERVENTI PER IL DRAGAGGIO DI 2,3 M m<sup>3</sup> DI  
SEDIMENTI IN AREA MOLO POLISETTORIALE PER LA  
REALIZZAZIONE DI UN PRIMO LOTTO DELLA CASSAS DI  
COLMATA FUNZIONALE ALL'AMPLIAMENTO DEL V  
SPORGENTE DEL PORTO DI TARANTO**



**ATMOSFERA**

**AMBIENTE IDRICO  
SUPERFICIALE**

**AMBIENTE IDRICO  
SOTTERRANEO**

**SUOLO**

**RELAZIONE VIII CAMPAGNA CORSO D'OPERA**  
**COMPONENTE ATMOSFERA**

**GIUGNO-LUGLIO 2020**



**RUMORE**

**RADIAZIONI NON  
IONIZZANTI**

**FAUNA ED ECOSISTEMI**

**Natura S.r.l.**

**PAESAGGIO**

COMMITTENTE **Astaldi SpA**

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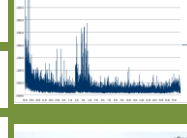
DESCRIZIONE **Relazione Tecnica – Monitoraggio Corso d'Opera –  
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ELABORATO **Dott.ssa Valeria Giottoli**

VERIFICATO **Ing. Margherita Ponticelli**

APPROVATO **Ing. Cesare Ferone**



**STATO FISICO DEI  
LUOGHI**

**VIBRAZIONI**

**VEGETAZIONE**

*INTERVENTI PER IL DRAGAGGIO DI 2,3 m<sup>3</sup> DI SEDIMENTI IN AREA MOLO POLISETTORIALE PER LA REALIZZAZIONE DI UN PRIMO LOTTO DELLA CASSA DI COLMATA FUNZIONALE ALL'AMPLIAMENTO DEL V SPORGENTE DEL PORTO DI TARANTO*

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**Monitoraggio Ambientale Corso d'Opera - Relazione VIII campagna - Componente Atmosfera**

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## 1. Premessa

Il presente rapporto riferisce in merito all'attività di monitoraggio ambientale eseguito in fase di Corso d'Opera (CO), per la realizzazione degli interventi per il dragaggio di 2.3 M m<sup>3</sup> di sedimenti della Darsena Polisetoriale del porto di Taranto e per la realizzazione di una cassa di colmata atta a contenere la maggior parte dei sedimenti dei fondali nell'area di ampliamento del V sporgente del porto di Taranto. Le due aree coinvolte sono incluse nella perimetrazione del Sito di bonifica di Interesse Nazionale (SIN) di Taranto.

Le attività di monitoraggio sono state eseguite secondo il programma e le specifiche tecniche previste nel Progetto Esecutivo di Monitoraggio per tale componente, ed in accordo con quanto previsto con l'Agenzia Regionale per la Prevenzione e la Protezione Ambientale della regione Puglia (ARPAP) in occasione del sopralluogo tenutosi il giorno 21/02/2017.

Le misure eseguite sono finalizzate, dunque, al rilevamento delle concentrazioni delle polveri sedimentabili PM10 e dei composti chimici tossici prodotti dalle lavorazioni e dalle attività di trasporto dei materiali sia di approvvigionamento che di smaltimento lungo la viabilità interna ed esterna al cantiere. È bene precisare che nell'ambito dell'area portuale sono in corso di esecuzione anche altri interventi (cfr. "Progetto di riqualificazione del molo polisetoriale – ammodernamento banchina di ormeggio", "Interventi di messa in sicurezza e bonifica della falda in area ex Yard Belleli" ed altri) con possibili impatti sulle stesse componenti ambientali contemplate dal PMA, e quindi sottoposte a monitoraggio anche nell'ambito di tali interventi.

In particolare, il presente monitoraggio è finalizzato all'utilizzo delle informazioni desunte per adottare eventuali opere di mitigazione che si rendessero necessarie allo scopo di limitare l'incremento delle polveri e degli altri gas inquinanti.

## 2. Quadro normativo di riferimento

Il quadro normativo in materia di inquinamento atmosferico si è evoluto notevolmente nel tempo, passando da una normativa improntata sulla logica di "emergenzialità" ad una normativa ispirata invece al concetto di prevenzione dell'inquinamento atmosferico, del risanamento e del mantenimento della qualità dell'aria.

- **D.Lgs. n.128 del 29/06/2010** "Modifiche ed integrazioni al D.Lgs. n.152 del 03/04/2006 recante norme in materia ambientale, a norma dell'art.12 della Legge n.69 del 18/06/2009".

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- **D.Lgs. n.81 del 09/04/2008** "Tutela della salute e della sicurezza nei luoghi di lavoro – Attuazione art.1 della Legge 123/2007 – Abrogazione D.Lgs. 626/1994".
- **D.Lgs. n.152 del 03/04/2006** "Norme in materia di ambiente" così come modificato dal D.Lgs. n.4 del 16/01/2008 "Ulteriori disposizioni correttive ed integrative del D.Lgs. n.152 del 03/04/2006 recante norme in materia di ambiente".
- **D.M. 25/08/2000** "Aggiornamento dei metodi di campionamento, analisi e valutazione degli inquinanti, ai sensi del D.P.R. n.203 del 24/05/1988".
- **D.M.A. 12/11/1992** "Criteri generali per la prevenzione dell'inquinamento atmosferico nelle grandi zone urbane e disposizioni per il miglioramento della qualità dell'aria";
- **D.P.R. n.103 del 24/05/1988** "Attuazione delle Direttive CEE 80/779, 82/360, 85/203 concernenti norme in materia di qualità dell'aria, relativamente a specifici agenti inquinanti e di inquinamento prodotti dagli impianti industriali, ai sensi dell'art. 15 della Legge n.183 del 16/04/1987".
- **D.Lgs. n.155 del 13/08/2010** "Attuazione della Direttiva 2008/50/CE relativa alla qualità dell'aria ambiente e per un'aria pulita in Europa".

Si tratta del decreto legislativo che riordina completamente la normativa in materia di gestione tutela della qualità dell'aria per i seguenti inquinanti: biossido di zolfo, biossido di azoto, benzene, monossido di carbonio, piombo e PM10, PM2,5, ozono, arsenico, cadmio, nichel e benzo(a)pirene.

Il D.lgs. 155/2010 riorganizza ed abroga numerose norme che in precedenza, in modo frammentario, disciplinavano la materia. In particolare il D.Lgs. 351/1999 (valutazione e gestione della qualità dell'aria che recepiva la previgente normativa comunitaria), il D.Lgs. 183/2004 (normativa sull'ozono), il D.Lgs. 152/2007 (normativa su arsenico, cadmio, mercurio, nichel e benzo(a)pirene), il DM 60/2002 (normativa su biossido di zolfo, biossido di azoto, ossidi di azoto, le particelle, il piombo, il benzene e il monossido di carbonio), il D.P.R. 203/1988 (normativa sugli impianti industriali, già soppresso dal D.Lgs. 152/2006 con alcune eccezioni transitorie, fatte comunque salve dal D.Lgs. 155/2010) e un pacchetto di ulteriori provvedimenti ministeriali attuativi.

Al fine di stabilire nel presente lavoro i valori limite tabellari a cui riferire gli inquinanti monitorati, si fa riferimento unicamente alla legislazione nazionale vigente, ovvero al D.Lgs. 155/2010.

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Si riportano nelle tabelle seguenti i valori limite per ciascun inquinante:

**NO<sub>2</sub>: Biossido di azoto**

DL 155 13/08/2010:	<b>Valore limite orario</b>	Numero di superamenti Media oraria ( max 18 volte in un anno)	<b>200 µg/m<sup>3</sup></b>
DL 155 13/08/2010:	<b>Valore limite annuale</b>	Media annua	<b>40 µg/m<sup>3</sup></b>
DL 155 13/08/2010:	<b>Soglia di Allarme</b>	Numero di superamenti Media oraria (3 ore consecutive)	<b>400 µg/m<sup>3</sup></b>

**CO: Monossido di carbonio**

DL 155 13/08/2010:	<b>Valore limite</b>	Massima Media Mobile su 8 ore	<b>10 mg/m<sup>3</sup></b>
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**O<sub>3</sub>: Ozono**

DL 155 13/08/2010:	<b>Soglia di Informazione</b>	Numero di Superamenti del valore orario	<b>180 µg/m<sup>3</sup></b>
DL 155 13/08/2010:	<b>Soglia di Allarme</b>	Numero di Superamenti del valore orario (3 ore consecutive)	<b>240 µg/m<sup>3</sup></b>
DL 155 13/08/2010:	<b>Valore obiettivo per la protezione della salute umana (da valutare per la prima volta nel 2013)</b>	Numero di superamenti della media mobile di 8 ore massima giornaliera (max 25 gg/anno come media degli ultimi 3 anni)	<b>120 µg/m<sup>3</sup></b>

**PM<sub>10</sub>: Particolato Atmosferico**

DL 155 13/08/2010:	<b>Valore limite giornaliero</b>	Numero di superamenti Media giornaliera (max 35 volte in un anno)	<b>50 µg/m<sup>3</sup></b>
DL 155 13/08/2010:	<b>Valore limite annuale</b>	Media annua	<b>40 µg/m<sup>3</sup></b>

**C<sub>6</sub>H<sub>6</sub>: Benzene**

DL 155 13/08/2010:	<b>Valore limite annuale</b>	Media annua	<b>5 µg/m<sup>3</sup></b>
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**SO<sub>2</sub>: Biossido di Zolfo**

DL 155 13/08/2010:	<b>Valore limite orario</b>	Numero di superamenti Media oraria ( max 24 volte in un anno)	<b>350 µg/m<sup>3</sup></b>
DL 155 13/08/2010:	<b>Valore limite giornaliero</b>	Numero di superamenti Media giornaliera ( max 3 volte in un anno)	<b>125 µg/m<sup>3</sup></b>
DL 155 13/08/2010:	<b>Soglia di Allarme</b>	Numero di superamenti Media oraria (3 ore consecutive)	<b>500 µg/m<sup>3</sup></b>

**Quadro normativo dei valori limite in vigore**

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Ulteriori limiti:

<b>Parametro</b>	<b>Tipo di protezione</b>	<b>Indice statistico</b>	<b>Unità di misura</b>	<b>Valore obiettivo</b>
<b>Benzo(a)pirene</b>	protezione della salute umana (D.Lgs 155/10)	<b>media annuale</b>	ng/m <sup>3</sup>	<b>1</b>
<b>Piombo (Pb)</b>	protezione della salute umana (D.Lgs 155/10)	<b>media annuale</b>	µg/m <sup>3</sup>	<b>0,5</b>
<b>Arsenico (As)</b>	protezione della salute umana (D.Lgs 155/10)	<b>media annuale</b>	ng/m <sup>3</sup>	<b>6</b>
<b>Cadmio (Cd)</b>	protezione della salute umana (D.Lgs 155/10)	<b>media annuale</b>	ng/m <sup>3</sup>	<b>5</b>
<b>Nichel (Ni)</b>	protezione della salute umana (D.Lgs 155/10)	<b>media annuale</b>	ng/m <sup>3</sup>	<b>20</b>

*Quadro normativo dei valori limite in vigore – benzo(a)pirene e metalli*

### 3. Attività svolte e sistema di rilevazione

La campagna di monitoraggio relativa alla componente atmosfera ha lo scopo di valutare i livelli di concentrazione degli inquinanti previsti nella normativa nazionale, al fine di individuare l'esistenza di eventuali stati di attenzione ed indirizzare gli interventi di mitigazione necessari a riportare i valori entro opportune soglie definite dallo strumento legislativo.

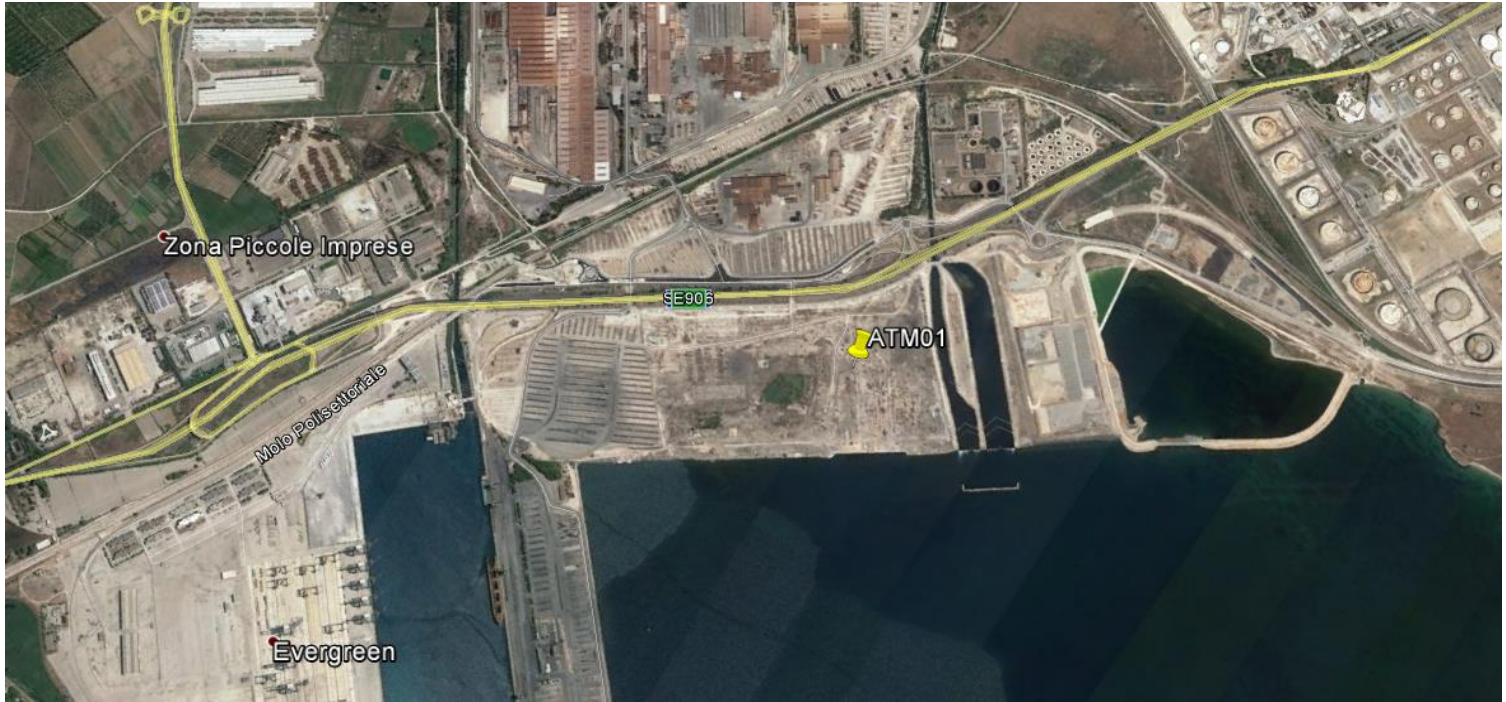
La localizzazione del punto di monitoraggio è stata determinata secondo le indicazioni riportate sul Piano di Monitoraggio Ambientale.

#### **Criteri per la scelta delle aree**

Le caratteristiche fisiche del territorio sul quale è stata effettuata l'attività di monitoraggio della qualità dell'aria sono quelle di un ambito fortemente antropizzato a carattere industriale.

In particolare, nell'area interessata dall'opera (vedi figura di seguito riportata), il punto di installazione della stazione di misura è stato definito in sede di sopralluogo in contraddittorio con ARPAP.

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Nell'area in esame, inoltre, ricadono due centraline fisse dell'ARPA Puglia a cui si è fatto riferimento per eseguire dei controlli e dei confronti con i rilievi eseguiti:

- Statte (TA), ponte radio Wind;
- Machiavelli, via Machiavelli, Taranto (TA).



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I parametri monitorati più significativi per l'inquinamento prodotto dalle attività di cantiere individuati dal PMA, sono di seguito elencati:

- PM10;
- Metalli pesanti: Piombo (Pb), Nichel (Ni), Cadmio (Cd), Arsenico (As);
- BTEX (Benzene, Toluene, Etilbenzene, O,P,M-Xilene);
- SO<sub>2</sub>, biossido di zolfo;
- CO, monossido di carbonio;
- O<sub>3</sub>, ozono;
- NO, NO<sub>2</sub>, NO<sub>x</sub>, monossido di azoto, biossido di azoto, ossidi di azoto;
- IPA (Idrocarburi Policiclici Aromatici): benzo(a)pirene.

Parametri meteorologici:

- Velocità del vento;
- Direzione del vento;
- Umidità relativa;
- Temperatura;
- Precipitazioni atmosferiche.

### **Strumentazione utilizzata**

La strumentazione utilizzata consta di un laboratorio mobile dotato di adeguato sistema di condizionamento per garantire una continua ed ottimale distribuzione della temperatura al suo interno; questo permette agli analizzatori di lavorare sempre in condizioni controllate e standard.

La stazione di rilevamento è composta di tre blocchi principali:

- Analizzatori automatici per la valutazione degli inquinanti aerodispersi;
- Centralina per la valutazione dei parametri meteorologici;
- Unità di acquisizione ed elaborazione dati.



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Di seguito si riporta un elenco della tipologia della strumentazione utilizzata:

Stazione mobile Fiat Ducato – EZ080DC	
Descrizione - Marca	Modello
Polveri - ENVIRONNEMENT	MP101M
Analizzatore CO - ENVIRONNEMENT	CO12M
Analizzatore O3 - ENVIRONNEMENT	O342M
Analizzatore BTEX - ENVIRONNEMENT	VOC71M
Analizzatore polveri - ENVIRONNEMENT	CPM
Analizzatore NO,NO2,NOx - ENVIRONNEMENT	AC32M
Analizzatore SO2 - ENVIRONNEMENT	AF22M
Analizzatore PM10 – COMDE DERENDA	PNS10
Stazione Meteo - LASTEM	LSI

#### 4. Risultato delle misurazioni

L'ottava campagna di misura della qualità dell'aria, eseguita durante la fase di Corso d'Opera, ha lo scopo di verificare l'incremento del livello di concentrazioni di polveri indotto in fase di realizzazione dell'opera, l'eventuale incremento dei restanti inquinanti in funzione sia delle lavorazioni effettuate nei cantieri che delle eventuali modificazioni al regime del traffico indotto dalla cantierizzazione.

La scelta dell'ubicazione della postazione di misura è stata effettuata seguendo le indicazioni del PMA e in accordo con ARPA Puglia.

La postazione, identificata con la sigla ATM01, è ubicata nell'area portuale di Taranto, a circa 1200 m dal V sporgente del porto interessato da lavori di ampliamento. Per tale punto, è stata redatta una scheda di monitoraggio, completa dei dati identificativi del punto di monitoraggio e dei parametri monitorati

L'ottava campagna di monitoraggio eseguita durante la fase di Corso d'Opera, ha avuto inizio il giorno 25/06/2020 alle ore 00:00 ed è terminata il giorno 24/07/2020 alle ore 24:00, per una durata complessiva di giorni n.30.

Nel corso della campagna di monitoraggio sono stati rilevati:

- i seguenti **parametri meteorologici** con frequenza oraria: velocità del vento (VV), direzione del vento (DV), umidità relativa (UR), temperatura, precipitazioni;

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- le seguenti **sostanze gassose** con frequenza oraria: CO, NO, NO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, SO<sub>2</sub>, Benzene, Toluene, Etilbenzene e Xilene;
- le **polveri sottili PM10** con frequenza oraria;
- **metalli pesanti e benzo(a)pirene**, con frequenza giornaliera, determinati analiticamente sulla frazione PM10 del materiale particolato.

**Riepilogo giornaliero di tutti i parametri rilevati**

ATM01																									
Dati rilevati dal 25/06/2020 al 09/07/2020																									
PARAMETRO	SO2	NO	NO2	NOx	CO		O3		PM10	Benz	Toluene	Etilbenz	M+P Xilene	O-Xilene	Ni	As	Cd	Pb	Benzo (a) pirene	VV	DV	Temp.	UR	Pioggia	
Giorno/U.M.	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	Media mg/m <sup>3</sup>	Med Max 8h mg/m <sup>3</sup>	Media mg/m <sup>3</sup>	Med Max 8h mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	m/s	°N	°C	%	mm	
25/06/2020	3.3	5.9	9.0	14.9	7.2	7.7	47.8	52.8	27.35	0.03	0.00	0.01	0.1	0.0	0.009	<0.001	<0.001	0.005	<0.1	1.9	151.9	23.6	60.5	0.0	
26/06/2020	3.5	4.8	7.4	12.3	7.1	7.6	57.8	64.3	31.13	0.0	0.0	0.0	0.0	0.0	0.014	0.002	<0.001	0.007	<0.1	1.0	90.0	24.1	68.2	0.0	
27/06/2020	3.6	4.8	7.4	12.2	7.0	7.1	48.8	61.6	35.20	0.0	0.0	0.0	0.1	0.0	0.012	0.001	<0.001	0.004	<0.1	2.4	115.3	24.6	68.1	0.0	
28/06/2020	3.6	4.7	7.2	11.9	7.7	8.4	45.9	58.1	29.89	0.0	0.0	0.0	0.1	0.0	0.015	<0.001	<0.001	<0.001	<0.1	1.1	135.9	24.8	69.0	0.0	
29/06/2020	3.1	4.5	6.9	11.4	8.0	8.8	39.0	49.5	30.10	0.0	0.0	0.0	0.0	0.0	0.016	0.001	<0.001	0.003	<0.1	2.1	87.2	26.1	65.9	0.0	
30/06/2020	3.4	4.5	6.9	11.5	7.3	7.6	39.5	49.4	27.9	0.0	0.0	0.0	0.0	0.0	0.014	0.005	0.002	0.130	<0.1	1.6	142.5	27.6	57.8	0.0	
01/07/2020	3.5	4.4	6.8	11.2	7.3	7.6	41.5	52.1	30.8	0.1	0.0	0.0	0.0	0.0	0.015	0.005	0.001	0.060	<0.1	1.5	115.3	27.8	61.8	0.0	
02/07/2020	3.5	4.4	6.8	11.3	7.4	7.6	62.2	65.1	30.3	0.0	0.0	0.0	0.0	0.0	0.018	0.006	<0.001	0.060	<0.1	2.0	93.8	28.3	64.7	0.0	
03/07/2020	3.5	4.5	6.9	11.3	7.6	7.8	50.1	57.9	31.8	0.0	0.0	0.0	0.0	0.0	0.015	0.005	<0.001	0.060	<0.1	1.6	133.1	29.2	59.6	0.0	
04/07/2020	3.4	4.5	6.9	11.4	7.8	8.1	49.6	59.1	31.1	0.0	0.0	0.0	0.0	0.0	0.017	0.005	<0.001	0.070	<0.1	2.2	109.7	26.5	66.7	0.0	
05/07/2020	3.3	4.5	6.9	11.5	7.3	7.8	50.9	62.0	17.3	0.1	0.0	0.0	0.0	0.0	0.015	0.002	<0.001	0.030	<0.1	4.9	127.5	26.6	59.0	0.0	
06/07/2020	3.1	4.5	6.9	11.5	6.5	6.7	39.3	43.2	19.4	0.2	0.0	0.0	0.0	0.0	0.013	0.001	<0.001	0.040	<0.1	2.3	86.3	27.7	52.4	0.0	
07/07/2020	3.0	4.5	7.0	11.5	6.8	7.0	46.0	64.0	23.3	0.2	0.0	0.0	0.0	0.0	0.017	0.002	<0.001	0.040	<0.1	3.3	139.7	25.9	54.9	0.0	
08/07/2020	3.1	4.6	7.0	11.6	6.8	6.9	39.4	50.7	20.9	0.1	0.0	0.0	0.0	0.0	0.017	0.001	<0.001	0.020	<0.1	4.3	128.4	25.0	51.5	0.0	
09/07/2020	3.0	4.6	7.0	11.6	7.0	7.1	29.5	38.4	21.8	0.1	0.0	0.0	0.0	0.0	0.018	0.002	<0.001	0.040	<0.1	1.8	127.5	24.2	65.1	0.0	
Limite orario	350 <sup>(5)</sup>		200 <sup>(4)</sup>				180 <sup>(2)</sup> 240 <sup>(3)(4)</sup>	120*																	
Limite giornaliero	125 <sup>(6)</sup>					10*			50 <sup>(8)</sup>							-	-	-	-						
Limite annuo	-		40						40	5						0,02 <sup>(7)</sup>	0,006 <sup>(7)</sup>	0,005 <sup>(7)</sup>	0,5 <sup>(7)</sup>	1,0 <sup>(7)</sup>					

\*: media massima giornaliera calcolata su 8 ore

#: dati mancanti causa interruzione energia elettrica

(1) : da non superare più di 18 volte nell'anno

-: valore mancante per dati parziali

(2) : soglia di informazione

(3) : soglia di allarme

(4) : valore obiettivo, da non superare più di 25 volte nell'anno

(5) : da non superare più di 24 volte nell'anno

(6) : da non superare più di 3 volte nell'anno

(7) : valore obiettivo

(8) : da non superare più di 35 volte nell'anno

**INTERVENTI PER IL DRAGAGGIO DI 2,3 m<sup>3</sup> DI SEDIMENTI IN AREA MOLO POLISETTORIALE PER LA REALIZZAZIONE DI UN PRIMO LOTTO DELLA CASSA DI COLMATA FUNZIONALE ALL'AMPLIAMENTO DEL V SPORGENTE DEL PORTO DI TARANTO**  
**Monitoraggio Ambientale Corso d'Opera - Relazione VIII campagna - Componente Atmosfera**

ATM01																									
Dati rilevati dal 10/07/2020 al 24/07/2020																									
PARAMETRO	SO2	NO	NO2	NOx	CO		O3		PM10	Benz	Toluene	Etilbenz	M+P Xilene	O-Xilene	Ni	As	Cd	Pb	Benzo (a) pirene	VV	DV	Temp.	UR	Pioggia	
Giorno/U.M.	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	Media mg/m <sup>3</sup>	Med Max 8h mg/m <sup>3</sup>	Media mg/m <sup>3</sup>	Med Max 8h mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	m/s	°N	°C	%	mm	
10/07/2020	2.9	4.6	7.1	11.7	7.2	7.2	26.4	34.2	31.8	0.1	0.0	0.0	0.0	0.0	0.015	<0.001	<0.001	0.005	<0.1	3.0	134.1	25.1	55.1	0.0	
11/07/2020	2.8	4.6	7.1	11.7	7.4	7.6	23.4	30.3	33.0	0.1	0.0	0.0	0.0	0.0	0.017	<0.001	<0.001	0.004	<0.1	4.5	129.4	25.9	56.3	0.0	
12/07/2020	2.8	4.6	7.1	11.7	7.7	7.8	21.9	29.9	33.1	0.1	0.0	0.0	0.0	0.0	0.003	<0.001	<0.001	0.002	<0.1	3.8	79.7	28.2	54.1	0.0	
13/07/2020	2.8	4.6	7.1	11.7	7.9	7.9	25.5	31.1	34.3	0.2	0.0	0.0	0.0	0.0	0.002	<0.001	<0.001	0.003	<0.1	4.8	112.5	25.3	48.0	0.0	
14/07/2020	2.7	4.6	7.1	11.7	7.9	8.0	28.4	29.2	34.3	0.0	0.0	0.0	0.0	0.0	0.011	<0.001	<0.001	0.006	<0.1	2.5	172.5	24.3	58.5	0.0	
15/07/2020	2.8	4.7	7.2	11.9	6.4	7.0	28.9	33.5	27.7	0.1	0.0	0.0	0.0	0.0	0.004	<0.001	<0.001	0.004	<0.1	5.6	137.8	24.5	71.2	0.0	
16/07/2020	2.9	4.6	7.1	11.8	6.6	6.6	30.4	34.4	25.7	0.1	0.0	0.0	0.0	0.0	0.004	<0.001	<0.001	0.003	<0.1	1.6	102.2	24.1	68.6	0.0	
17/07/2020	2.8	4.6	7.1	11.8	6.7	6.9	29.6	32.6	23.2	0.1	0.0	0.0	0.0	0.0	0.004	<0.001	<0.001	0.002	<0.1	1.8	134.1	24.6	68.1	0.0	
18/07/2020	2.8	4.7	7.1	11.8	6.6	6.8	26.5	32.6	22.5	0.0	0.0	0.0	0.0	0.0	0.003	<0.001	<0.001	0.002	<0.1	3.7	119.1	24.2	57.5	0.0	
19/07/2020	2.8	4.7	7.2	11.8	6.6	6.7	23.2	34.0	23.1	0.1	0.0	0.0	0.0	0.0	0.003	<0.001	<0.001	0.002	<0.1	4.7	113.4	23.7	56.4	0.0	
20/07/2020	2.7	4.7	7.2	11.9	6.7	6.8	21.4	35.3	26.0	0.0	0.0	0.0	0.0	0.0	0.003	<0.001	<0.001	0.003	<0.1	1.6	95.6	24.6	53.9	0.0	
21/07/2020	2.7	4.7	7.2	11.9	6.9	6.9	20.7	33.3	29.6	0.0	0.0	0.0	0.0	0.0	0.004	<0.001	<0.001	0.003	<0.1	3.2	84.4	27.3	45.9	0.0	
22/07/2020	2.8	4.7	7.2	11.9	7.1	7.3	17.5	28.0	32.9	0.0	0.0	0.0	0.0	0.0	0.013	<0.001	<0.001	0.003	<0.1	2.4	114.4	29.2	42.6	0.0	
23/07/2020	2.8	4.7	7.2	11.9	7.4	7.5	25.3	32.1	30.8	0.1	0.0	0.0	0.0	0.0	0.013	<0.001	<0.001	0.006	<0.1	1.6	135.0	27.6	54.5	0.0	
24/07/2020	2.7	4.7	7.2	11.9	7.7	7.7	27.9	33.3	30.1	0.0	0.0	0.0	0.0	0.0	0.017	<0.001	<0.001	0.004	<0.1	1.7	104.1	27.3	64.3	0.0	
Limite orario	350 <sup>(5)</sup>		200 <sup>(4)</sup>				180 <sup>(2)</sup> 240 <sup>(3)(4)</sup>	120*																	
Limite giornaliero	125 <sup>(6)</sup>					10*			50 <sup>(8)</sup>							-	-	-	-						
Limite annuo	-		40						40	5						0,02 <sup>(7)</sup>	0,006 <sup>(7)</sup>	0,005 <sup>(7)</sup>	0,5 <sup>(7)</sup>	1,0 <sup>(7)</sup>					

\*: media massima giornaliera calcolata su 8 ore

#: dati mancanti causa interruzione energia elettrica

(1) : da non superare più di 18 volte nell'anno

-: valore mancante per dati parziali

(2) : soglia di informazione

(3) : soglia di allarme

(4) : valore obiettivo, da non superare più di 25 volte nell'anno

(5) : da non superare più di 24 volte nell'anno

(6) : da non superare più di 3 volte nell'anno

(7) : valore obiettivo

(8) : da non superare più di 35 volte nell'anno

INTERVENTI PER IL DRAGAGGIO DI 2,3 m<sup>3</sup> DI SEDIMENTI IN AREA MOLO POLISETTORIALE PER LA REALIZZAZIONE DI UN PRIMO LOTTO DELLA CASSA DI COLMATA FUNZIONALE ALL'AMPLIAMENTO DEL V SPORGENTE DEL PORTO DI TARANTO  
**Monitoraggio Ambientale Corso d'Opera - Relazione VIII campagna - Componente Atmosfera**

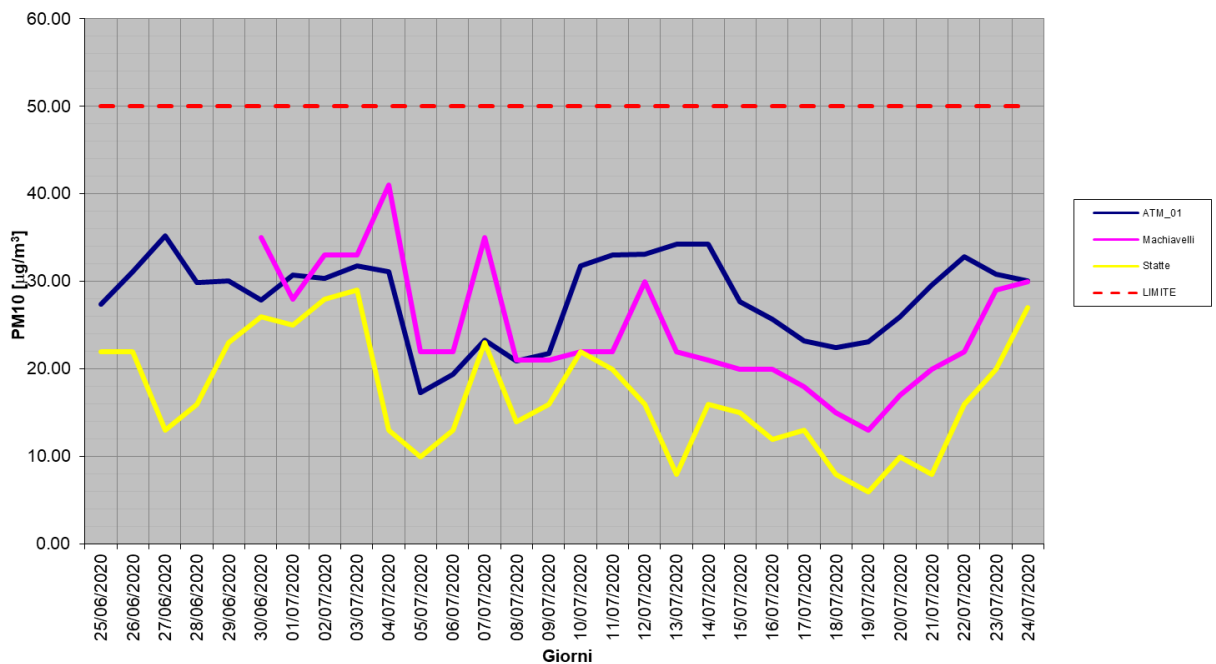
## 5. Conclusioni

Il suddetto monitoraggio è stato realizzato attraverso la verifica di parametri rappresentativi dello stato qualitativo dell'aria in relazione alle soglie di attenzione ed allarme fissate dalla Normativa vigente.

Le principali conclusioni del presente studio possono essere di seguito riassunte:

- I valori delle concentrazioni riscontrati per le polveri sottili PM10 **non hanno evidenziato superamenti del limite di 50 µg/m<sup>3</sup> stabilito dalla Normativa vigente.** Al fine di ottenere un quadro generale più completo ed esaustivo, così come indicato nel PMA, i dati rilevati sono stati confrontati con quelli disponibili di due centraline fisse della rete di monitoraggio dell'ARPA Puglia più prossime all'area interessata dalla misura in esame (Statte – ponte radio Wind e Machiavelli – Taranto): dal grafico riportato di seguito è possibile notare che, per le tre stazioni di monitoraggio, sono state rilevate concentrazioni medie giornaliere sempre inferiori ai limiti normativi vigenti per tutta la durata del periodo indagato.

Confronto dell'andamento giornaliero del PM10 con le centraline ARPA Puglia



**INTERVENTI PER IL DRAGAGGIO DI 2,3 m<sup>3</sup> DI SEDIMENTI IN AREA MOLO POLISETTORIALE PER LA REALIZZAZIONE DI UN PRIMO LOTTO DELLA CASSA DI COLMATA FUNZIONALE ALL'AMPLIAMENTO DEL V SPORGENTE DEL PORTO DI TARANTO**  
**Monitoraggio Ambientale Corso d'Opera - Relazione VIII campagna - Componente Atmosfera**

- Per quanto concerne le concentrazioni osservate per tutti gli inquinanti gassosi, SO<sub>2</sub>, NO<sub>2</sub>, e CO, i valori rilevati risultano essere largamente inferiori ai limiti stabili dalla Normativa vigente. Per quanto riguarda, invece, l'O<sub>3</sub>, il valore orario della soglia di allarme di 240 µg/m<sup>3</sup>, al pari di quello della soglia di informazione di 180 µg/m<sup>3</sup>, non è mai stato superato; tuttavia, il valore obiettivo per la protezione della salute umana (fissato in 120 µg/m<sup>3</sup>), calcolato come massimo giornaliero della media mobile di 8 ore, è stato superato tre volte, certamente a causa delle alte temperature stagionali. Come è noto, infatti, l'ozono è strettamente correlato alla temperatura atmosferica.
- Per quanto riguarda i BTEX, il benzene è l'unico ad avere un limite normativo pari a 5 µg/m<sup>3</sup>. Durante il periodo di misura le concentrazioni dei BTEX sono risultate quasi sempre prossime allo zero.
- Le concentrazioni rilevate per il benzo(a)pirene relativamente alla famiglia degli IPA risultano costantemente al di sotto della soglia di rilevabilità strumentale corrispondente a 0.1 ng/m<sup>3</sup>, pertanto inferiori a 1/10 del valore obiettivo indicato dalla legislazione vigente.
- Le concentrazioni rilevate per i metalli pesanti risultano al di sotto della soglia di rilevabilità strumentale corrispondente a 0.001 µg/m<sup>3</sup> o comunque al di sotto dei limiti di legge.

Per tutti i parametri monitorati e descritti, si rimanda alla Scheda di Misura allegata per la visione dei risultati acquisiti.

*INTERVENTI PER IL DRAGAGGIO DI 2,3 m<sup>3</sup> DI SEDIMENTI IN AREA MOLO POLISETTORIALE PER LA REALIZZAZIONE DI UN PRIMO LOTTO DELLA CASSA DI COLMATA FUNZIONALE ALL'AMPLIAMENTO DEL V SPORGENTE DEL PORTO DI TARANTO*

**Monitoraggio Ambientale Corso d'Opera - Relazione VIII campagna - Componente Atmosfera**

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## ALLEGATI

### Scheda di misura

# ASTALDI S.P.A

“Piano Di Monitoraggio Ambientale”

Scheda di campo afferente alla componente:

## ATMOSFERA

Punto di monitoraggio: **ATM01**

Periodo di monitoraggio: al **25/06/20** al **24/07/20**

Tecnico installatore: **Dott. Antonio Mercadante**

Interventi per il dragaggio di 2.3 M m<sup>3</sup> di sedimenti in area molo polisettoriale per la realizzazione di un primo lotto della cassa di colmata funzionale all'ampliamento del V sporgente del porto di Taranto

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<b>CODICE PUNTO DI MISURA:</b>	<b>ATM01</b>		
<b>COORDINATE:</b>	40°29'47.87"N	17° 10'25.11"E	
<b>FASE MONITORAGGIO:</b>	AO <input type="checkbox"/>	CO <input checked="" type="checkbox"/>	PO <input type="checkbox"/>
<b>TIPOLOGIA MISURA:</b>	SETTIMANALE <input type="checkbox"/>	24 ORE <input type="checkbox"/>	30 gg <input checked="" type="checkbox"/>

**STRALCIO PLANIMETRICO/ORTOFOTO**

**LOCALIZZAZIONE GEOGRAFICA**

<b>Regione:</b>	Puglia	<b>Provincia:</b>	Taranto	<b>Località:</b>	Zona portuale
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**PRINCIPALI SORGENTI INQUINANTI**

<input type="checkbox"/> autostrada	m:	<input checked="" type="checkbox"/> strada statale 106	m: 220 NN-Est
<input checked="" type="checkbox"/> industrie	m: 1300 Est (Agip Petroli)	<input checked="" type="checkbox"/> linea ferroviaria	m: 700 NN-Est
	m: 2500 Est (ILVA)	<input type="checkbox"/> parcheggio	m:
	m: 800 NN-Est (zona industriale)	<input type="checkbox"/> fermata mezzi pubblici (auto-bus)	m:
<input checked="" type="checkbox"/> cantiere futuro	m: 1200 N-Ovest	<input type="checkbox"/> fermata mezzi pubblici (filobus)	m:
<input checked="" type="checkbox"/> altro cantieri	m: 300 SS-Ovest	<input type="checkbox"/> altro	m:

**NOTE:**



**CARATTERISTICHE DEL TRAFFICO SULLA STRADA PIU' VICINA**

TIPO DI TRAFFICO	FLUSSO DI TRAFFICO	PRESENZA DI EDIFICI SULLA STRADA
<input type="checkbox"/> leggero	<input checked="" type="checkbox"/> scorrevole	<input type="checkbox"/> elevata
<input checked="" type="checkbox"/> misto	<input type="checkbox"/> pulsante	<input type="checkbox"/> media
<input checked="" type="checkbox"/> pesante	<input type="checkbox"/> a blocchi	<input checked="" type="checkbox"/> bassa/nulla

**DESCRIZIONE RILIEVO**

<b>Data e Durata:</b>	data inizio misura	25/06/2020	ore:	00:00	data fine:	24/07/2020	ore:	24:00
<b>Condizioni meteo:</b>	<input checked="" type="checkbox"/> cielo sereno				<input type="checkbox"/> cielo nuvoloso			
	<input checked="" type="checkbox"/> assenza di precipitazioni				<input type="checkbox"/> precipitazioni			
	<input type="checkbox"/> assenza di vento				<input checked="" type="checkbox"/> vento			

**STRUMENTAZIONE DI MISURA**

Laboratorio mobile per il monitoraggio della qualità dell'aria conforme alla Normativa D.Lgs 155/2010 IVECO targato DH559YZ

**ANALIZZATORI**

Analizzatore automatico per polveri – Environnement – modello MP101M + CPM  
 Analizzatore automatico per monossido di carbonio CO – Environnement – modello CO12M  
 Analizzatore automatico per ozono O3 – Environnement – modello O342M  
 Analizzatore automatico per diossido di zolfo SO2 – Environnement – modello AF22M  
 Analizzatore automatico per ossidi di azoto NO, NO2, NOx – Environnement – modello AC32M  
 Analizzatore automatico per composti organici volatili BTEX – Environnement – modello VOC71M  
 Analizzatore sequenziale per polveri PM10 – Comde Derenda – modello PNS10  
 Stazione meteo LSI Lastem completa di:

- Piranometro (radiazione globale) - modello DPA559
- Radiometro (radiazione UVB) – modello DPA559
- Termogigrometro – modello DMA675
- Anemometro – modello DNA721
- Pluviometro – modello DQA130
- Barometro – modello DQA201

**PERSONALE TECNICO IMPIEGATO**

<b>Tecnico rilevatore:</b>	Dott. Antonio Mercadante
<b>Tecnico di laboratorio:</b>	Dott. Francesco Troisi

DOCUMENTAZIONE FOTOGRAFICA DEL PUNTO DI MISURA



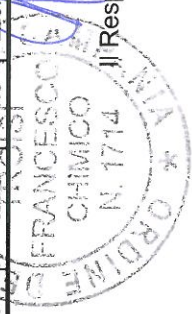


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 25 giugno 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMP E °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	65.7	21.8	3.2	4.7	7.2	11.9	7.8	0.00	0.00	0.00	0.13	0.06	22.1	0	52.8	112.5	1.33	<0.1
02:00	58.3	23.8	3.3	5.1	7.8	12.9	7.7	0.00	0.00	0.00	0.10	0.06	21.7	0	51.7	135	1.45	<0.1
03:00	41.2	30.4	3.4	6.5	10.0	16.5	7.7	0.00	0.00	0.00	0.10	0.03	20.5	0	57.8	0	0.00	<0.1
04:00	42.6	31.0	3.2	6.7	10.2	16.9	7.5	0.00	0.00	0.03	0.10	0.03	20.0	0	55.6	135	0.58	<0.1
05:00	44.3	29.5	3.2	6.3	9.7	16.1	7.5	0.00	0.00	0.00	0.00	0.03	19.8	0	58.1	0	0.00	<0.1
06:00	41.7	31.0	3.3	6.7	10.2	16.9	7.5	0.21	0.00	0.00	0.00	0.03	19.6	0	58.6	225	0.12	<0.1
07:00	65.0	32.9	3.3	7.1	10.8	17.9	7.6	0.21	0.00	0.00	0.00	0.03	20.9	0	62.7	180	0.38	<0.1
08:00	63.0	34.0	3.5	7.3	11.2	18.5	7.8	0.00	0.00	0.03	0.10	0.06	22.2	0	61.9	0	0.00	<0.1
09:00	62.0	33.5	3.4	7.2	11.0	18.2	8.0	0.00	0.02	0.03	0.10	0.03	23.2	0	63.0	180	1.52	<0.1
10:00	52.7	30.9	3.2	6.6	10.2	16.8	7.9	0.00	0.02	0.00	0.00	0.03	23.1	0	63.8	180	2.20	<0.1
11:00	48.1	29.2	3.1	6.3	9.6	15.9	7.7	0.10	0.00	0.00	0.03	0.03	23.5	0	62.6	180	2.42	<0.1
12:00	42.4	27.9	3.1	6.0	9.2	15.2	7.6	0.00	0.00	0.00	0.03	0.03	24.4	0	61.7	180	2.80	<0.1
13:00	43.5	26.9	3.3	5.8	8.9	14.6	7.5	0.00	0.00	0.03	0.03	0.03	25.1	0	60.6	180	7.28	<0.1
14:00	45.9	26.0	3.1	5.6	8.6	14.2	7.1	0.00	0.00	0.00	0.06	0.03	25.1	0	60.4	180	4.92	<0.1
15:00	46.6	26.5	3.4	5.7	8.7	14.4	6.8	0.00	0.00	0.00	0.06	0.03	25.2	0	68.6	180	3.02	<0.1
16:00	49.7	25.9	3.2	5.6	8.5	14.1	6.7	0.00	0.00	0.00	0.06	0.03	25.2	0	68.4	180	4.63	<0.1
17:00	47.4	26.1	3.3	5.6	8.6	14.2	6.5	0.00	0.00	0.00	0.06	0.03	25.5	0	71.0	202.5	1.88	<0.1
18:00	52.1	25.3	3.3	5.4	8.3	13.7	6.5	0.16	0.00	0.00	0.03	0.03	25.6	0	68.2	202.5	1.43	<0.1
19:00	47.1	24.9	3.5	5.3	8.2	13.5	6.5	0.00	0.00	0.00	0.06	0.03	29.7	0	63.1	202.5	0.93	<0.1
20:00	37.1	24.4	3.3	5.2	8.0	13.3	6.6	0.00	0.00	0.03	0.10	0.03	26.0	0	59.2	225	0.35	<0.1
21:00	37.5	24.1	3.5	5.2	7.9	13.1	6.6	0.00	0.00	0.03	0.06	0.03	25.8	0	55.5	0	0.00	<0.1
22:00	37.3	23.8	3.6	5.1	7.8	13.0	6.7	0.00	0.00	0.00	0.06	0.03	25.6	0	55.6	157.5	0.90	<0.1
23:00	37.7	23.5	3.6	5.0	7.7	12.8	6.9	0.00	0.00	0.00	0.06	0.03	25.4	0	55.0	202.5	6.17	<0.1
00:00	39.4	23.2	3.6	5.0	7.7	12.6	7.0	0.00	0.00	0.00	0.06	0.03	25.0	0	56.6	225	0.83	<0.1
Mean	47.84	27.35	3.32	5.87	9.00	14.88	7.25	0.03	0.00	0.01	0.06	0.04	23.60	0.00	60.5	151.9	1.9	<0.1
Min	37.07	21.81	3.06	4.68	7.18	11.86	6.50	0.00	0.00	0.00	0.00	0.03	19.61	0.00	51.7	0.00	0.0	<0.1
Max	65.68	34.02	3.64	7.31	11.20	18.51	8.01	0.21	0.02	0.03	0.13	0.06	26.04	0.00	71.0	225.0	7.3	<0.1



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



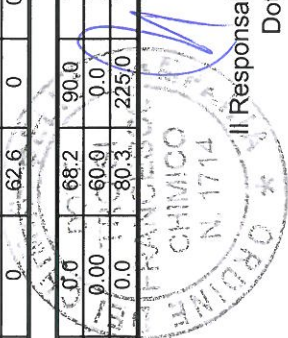
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 26 giugno 2020**

<b>Benzo(a)pirene</b> ng/m <sup>3</sup>	<0.1
<b>Metalli - Giornaliero</b> µg/m <sup>3</sup>	
Nichel	0.014
Arsenico	0.002
Cadmio	<0.001
Piombo	0.007

Time	O3 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO2 µg/m <sup>3</sup>	NO µg/m <sup>3</sup>	NO2 µg/m <sup>3</sup>	NOX µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	Benzene µg/m <sup>3</sup>	Toluene µg/m <sup>3</sup>	Etilbenzene µg/m <sup>3</sup>	M+P-Xilene µg/m <sup>3</sup>	O-Xilene µg/m <sup>3</sup>	TEMP E °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s
01:00	39.997	31.55	3.46956	4.91681	7.53667	12.4535	7.4	0.00	0.00	0.06	0.00	0.00	23.8	0	60.0	180	0.32
02:00	44.992	31.16	3.61939	4.85604	7.4435	12.2995	7.3	0.00	0.00	0.03	0.03	0.03	23.1	0	61.6	0	0.00
03:00	48.359	31.26	3.63253	4.87201	7.468	12.34	7.3	0.10	0.00	0.06	0.00	0.00	20.6	0	66.8	0	0.00
04:00	49.025	30.91	3.53161	4.81799	7.38518	12.2032	7.1	0.10	0.00	0.06	0.00	0.00	20.4	0	68.3	180	0.23
05:00	55.611	30.89	3.81158	4.81383	7.37881	12.1926	7.1	0.00	0.00	0.06	0.00	0.00	20.6	0	68.6	157.5	0.28
06:00	53.391	30.72	3.42689	4.78765	7.33868	12.1263	7.3	0.00	0.01	0.06	0.00	0.00	21.7	0	66.8	0	0.00
07:00	47.841	30.88	3.39532	4.81325	7.37792	12.1912	7.6	0.00	0.00	0.06	0.00	0.00	23.6	0	63.4	202.5	0.67
08:00	54.908	31.05	3.63309	4.83872	7.41696	12.2557	8.0	0.00	0.00	0.06	0.00	0.00	24.0	0	67.0	202.5	1.28
09:00	58.127	31.06	3.76625	4.83999	7.41891	12.2589	7.9	0.00	0.00	0.03	0.00	0.00	23.9	0	70.3	180	1.91
10:00	59.089	30.81	3.78759	4.80235	7.36121	12.1636	7.6	0.00	0.00	0.00	0.03	0.03	25.3	0	65.9	180	2.82
11:00	63.492	30.85	3.53667	4.80771	7.36943	12.1771	7.7	0.20	0.00	0.00	0.06	0.03	26.1	0	67.6	0	0.00
12:00	65.638	30.79	3.45633	4.79799	7.35454	12.1525	7.6	0.00	0.00	0.03	0.06	0.06	26.7	0	60.6	0	0.00
13:00	64.713	30.46	3.89577	4.74776	7.27753	12.0253	7.2	0.00	0.00	0.03	0.06	0.06	26.2	0	66.6	0	0.00
14:00	64.343	32.96	3.26406	5.13706	7.87427	13.0113	6.5	0.12	0.00	0.00	0.06	0.03	25.7	0	77.6	0	0.00
15:00	63.011	30.73	3.53163	4.78916	7.34099	12.1302	6.5	0.00	0.00	0.00	0.06	0.03	25.6	0	79.9	180	7.23
16:00	63.344	31.19	3.52431	4.86095	7.45105	12.312	6.6	0.00	0.00	0.03	0.10	0.03	25.4	0	80.3	0	0.00
17:00	64.232	31.39	3.47955	4.89169	7.49816	12.3899	6.6	0.00	0.00	0.03	0.10	0.06	25.8	0	73.8	157.5	2.15
18:00	64.75	31.38	3.37852	4.89097	7.49706	12.388	6.5	0.00	0.02	0.03	0.10	0.06	25.9	0	67.0	135	1.35
19:00	64.306	31.22	3.3248	4.86587	7.45857	12.3244	6.5	0.00	0.01	0.03	0.10	0.06	25.2	0	71.9	180	5.26
20:00	59.644	31.19	3.59574	4.86045	7.45027	12.3107	6.6	0.00	0.02	0.03	0.10	0.06	24.7	0	78.0	0	0.00
21:00	60.162	31.21	3.60075	4.86341	7.4548	12.3182	6.7	0.00	0.00	0.03	0.10	0.06	24.2	0	64.5	0	0.00
22:00	61.05	30.79	3.36717	4.79928	7.35651	12.1558	7.5	0.00	0.00	0.03	0.06	0.03	23.9	0	63.0	225	0.13
23:00	59.496	30.79	3.38299	4.79846	7.35525	12.1537	7.4	0.00	0.00	0.03	0.06	0.03	22.7	0	62.6	0	0.00
00:00	58.83	31.99	3.2578	4.6341	7.4291	12.0632	6.6	0.00	0.00	0.03	0.06	0.03					
Mean	57.85	31.13	3.53	4.84	7.43	12.27	7.12	0.02	0.00	0.04	0.05	0.03	24.05	0.0	68.2	90.0	1.0
Min	40.00	30.46	3.26	4.63	7.28	12.03	6.48	0.00	0.00	0.00	0.00	0.00	20.44	0.00	60.0	0.0	0.0
Max	65.64	32.96	3.90	5.14	7.87	13.01	7.95	0.20	0.02	0.06	0.10	0.06	26.75	0.0	80.3	225.0	7.2



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

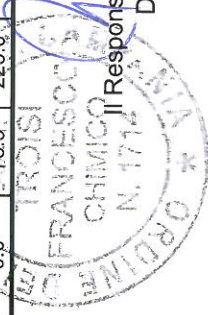
**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 27 giugno 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	57.757	34.95	3.4888	4.78888	7.34056	12.1294	7.17475	0.00	0.00	0.03	0.06	0.03	23.5	0	64.1	0	0.00	<0.1
02:00	64.565	34.97	3.74723	4.79161	7.34475	12.1364	7.25348	0.11	0.00	0.03	0.06	0.03	21.5	0	67.0	135	1.49	
03:00	59.385	34.96	3.55942	4.79001	7.3423	12.1323	7.00349	0.10	0.00	0.00	0.06	0.03	21.1	0	67.5	0	0.00	
04:00	66.119	35.17	3.62224	4.81922	7.38708	12.2063	6.98387	0.00	0.00	0.00	0.06	0.03	21.3	0	73.1	180	0.34	
05:00	63.936	35.04	3.57697	4.80108	7.35927	12.1604	6.92134	0.00	0.00	0.00	0.06	0.03	20.9	0	75.9	202.5	0.15	
06:00	61.531	35.11	3.41262	4.81074	7.37408	12.1848	6.88771	0.00	0.00	0.00	0.06	0.03	20.6	0	71.2	202.5	27.65	
07:00	60.347	35.21	3.56633	4.82487	7.39574	12.2206	7.25599	0.00	0.01	0.00	0.03	0.00	22.5	0	66.4	225	0.12	
08:00	58.312	35.18	3.52306	4.82053	7.38908	12.2096	7.33344	0.00	0.00	0.03	0.03	0.03	23.7	0	67.6	202.5	0.83	
09:00	58.423	35.00	3.54071	4.79547	7.35066	12.1461	7.1126	0.15	0.00	0.00	0.03	0.03	23.6	0	74.4	202.5	1.46	
10:00	62.271	34.99	3.57138	4.79414	7.34863	12.1428	6.94522	0.20	0.00	0.00	0.06	0.03	24.2	0	70.6	0	0.00	
11:00	58.238	35.27	3.49964	4.83236	7.40721	12.2396	6.90906	0.00	0.00	0.00	0.06	0.03	25.3	0	64.9	0	0.00	
12:00	53.539	35.13	3.53123	4.81354	7.37836	12.1919	7.00667	0.00	0.00	0.00	0.06	0.03	26.4	0	62.4	180	3.06	
13:00	50.505	35.11	3.69035	4.81064	7.37392	12.1846	6.95249	0.00	0.03	0.03	0.06	0.03	27.1	0	60.2	0	0.00	
14:00	47.73	35.15	3.75143	4.81586	7.38192	12.1978	6.91971	0.00	0.00	0.03	0.06	0.03	27.7	0	61.9	0	0.00	
15:00	44.437	34.99	3.36735	4.79442	7.34906	12.1435	7.00662	0.00	0.00	0.03	0.06	0.03	27.5	0	61.9	0	0.00	
16:00	46.99	35.07	3.21239	4.80486	7.36506	12.1699	6.94867	0.00	0.02	0.03	0.06	0.03	27.4	0	69.8	180	2.48	
17:00	35.261	35.38	3.41033	4.84724	7.43001	12.2773	6.95565	0.00	0.01	0.03	0.06	0.03	26.8	0	71.9	180	1.50	
18:00	34.817	35.40	3.61452	4.8496	7.43395	12.2838	6.84681	0.00	0.00	0.03	0.06	0.03	26.7	0	71.1	180	1.40	
19:00	33.263	35.41	3.457	4.85153	7.43659	12.2881	6.96473	0.00	0.00	0.00	0.06	0.03	26.1	0	75.1	0	0.00	
20:00	31.783	35.35	3.48689	4.84385	7.42483	12.2687	6.84874	0.00	0.00	0.00	0.06	0.03	25.2	0	76.9	202.5	2.72	
21:00	31.968	35.33	3.79774	4.84055	7.41976	12.2603	6.80913	0.00	0.00	0.00	0.06	0.03	25.4	0	68.9	180	10.83	
22:00	32.079	35.55	3.8893	4.87138	7.46703	12.3384	6.93186	0.00	0.00	0.00	0.06	0.03	25.0	0	67.8	135	0.76	
23:00	26.122	35.55	3.71803	4.87093	7.46634	12.3373	7.10951	0.00	0.01	0.00	0.06	0.03	24.6	0	60.4	0	0.00	
00:00	32.227	35.61	3.49837	4.87903	7.47874	12.3578	7.14865	0.00	0.01	0.03	0.06	0.03	24.6	0	60.4	0	0.00	
Mean	48.82	35.20	3.56	4.82	7.39	12.22	7.01	0.02	0.00	0.01	0.06	0.03	24.65	0.0	68.1	115.3	2.4	
Min	26.12	34.95	3.21	4.79	7.34	12.13	6.81	0.00	0.00	0.00	0.03	0.00	20.60	0.00	60.2	0.0	0.0	
Max	66.12	35.61	3.89	4.88	7.48	12.36	7.33	0.20	0.03	0.03	0.06	0.03	27.69	0.0	76.9	225.0	27.6	

Benzo(a)pirene ng/m³	<0.1
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Metalli - Giornaliero µg/m³	
Nichel	0.012
Arsenico	0.001
Cadmio	<0.001
Piombo	0.004



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

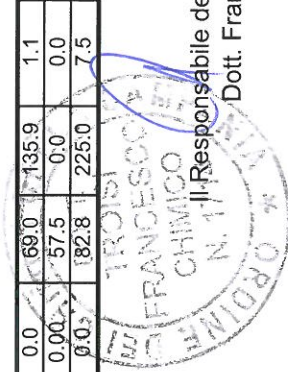
**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 28 giugno 2020**

<b>Benzo(a)pirene</b> ng/m <sup>3</sup>	<0.1
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<b>Metalli - Giornaliero</b> µg/m <sup>3</sup>	
Nichel	0.015
Arsenico	<0.001
Cadmio	<0.001
Piombo	<0.001

Time	O3 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO2 µg/m <sup>3</sup>	NO µg/m <sup>3</sup>	NO2 µg/m <sup>3</sup>	NOX µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	Benzene µg/m <sup>3</sup>	Toluene µg/m <sup>3</sup>	Etilbenzene µg/m <sup>3</sup>	M+P-Xilene µg/m <sup>3</sup>	O-Xilene µg/m <sup>3</sup>	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s
01:00	39.00	30.12	3.57	4.87	7.47	12.35	7.19	0.00	0.01	0.03	0.06	0.03	23.6	0	59.4	135	1.08
02:00	36.30	30.01	3.63	4.86	7.45	12.30	7.24	0.00	0.00	0.00	0.06	0.03	22.7	0	63.3	135	1.09
03:00	33.30	30.14	3.61	4.88	7.48	12.36	7.11	0.00	0.00	0.00	0.06	0.03	22.2	0	57.5	157.5	0.53
04:00	44.88	30.16	3.65	4.88	7.48	12.37	6.91	0.11	0.00	0.00	0.06	0.03	22.0	0	60.2	225	0.00
05:00	57.50	30.02	3.95	4.86	7.45	12.31	7.00	0.00	0.02	0.00	0.06	0.03	22.0	0	70.7	180	0.29
06:00	59.03	30.21	3.65	4.63	7.17	11.80	7.85	0.00	0.00	0.00	0.03	0.03	21.3	0	68.8	202.5	0.00
07:00	65.61	30.06	3.49	4.63	7.18	11.80	8.05	0.00	0.00	0.00	0.03	0.03	22.4	0	65.4	0	0.69
08:00	53.98	30.03	3.64	4.60	7.13	11.73	8.37	0.00	0.05	0.00	0.03	0.03	24.4	0	69.1	112.5	1.32
09:00	48.78	30.04	3.60	4.62	7.16	11.78	8.78	0.00	0.02	0.00	0.03	0.03	24.7	0	72.5	180	1.97
10:00	56.91	29.65	3.62	4.63	7.18	11.82	8.70	0.00	0.00	0.03	0.06	0.03	24.7	0	67.9	157.5	2.91
11:00	57.13	29.64	3.65	4.61	7.15	11.76	8.42	0.21	0.00	0.03	0.06	0.03	26.1	0	69.7	0	0.00
12:00	60.09	30.80	3.57	4.62	7.17	11.79	8.50	0.18	0.00	0.00	0.03	0.03	26.9	0	62.5	157.5	0.00
13:00	62.14	29.58	3.61	4.62	7.16	11.78	8.44	0.00	0.00	0.00	0.03	0.03	27.6	0	68.7	225	0.00
14:00	60.14	29.60	3.77	4.63	7.19	11.82	7.95	0.31	0.00	0.00	0.03	0.03	27.0	0	80.1	180	0.00
15:00	52.70	29.59	3.83	4.65	7.22	11.87	7.16	0.24	0.00	0.03	0.16	0.10	26.5	0	82.4	180	7.45
16:00	48.24	29.77	3.44	4.62	7.16	11.78	7.17	0.00	0.00	0.03	0.06	0.00	26.4	0	82.8	157.5	0.00
17:00	43.51	29.66	3.28	4.62	7.16	11.78	7.26	0.00	0.00	0.03	0.06	0.03	26.2	0	76.1	0	2.21
18:00	39.14	29.72	3.48	4.64	7.19	11.82	7.26	0.00	0.01	0.03	0.06	0.03	26.6	0	69.1	225	1.39
19:00	34.37	29.81	3.69	4.64	7.20	11.84	7.22	0.00	0.00	0.00	0.03	0.03	26.7	0	74.2	135	5.42
20:00	26.75	29.78	3.53	4.66	7.23	11.88	7.16	0.00	0.00	0.00	0.03	0.03	26.0	0	66.5	135	0.00
21:00	31.31	29.62	3.56	4.61	7.15	11.76	7.25	0.00	0.00	0.03	0.10	0.06	25.4	0	65.0	225	0.13
22:00	29.35	29.85	3.88	4.63	7.19	11.82	7.44	0.00	0.00	0.03	0.06	0.03	25.0	0	64.5	0	0.00
23:00	31.75	29.74	3.97	4.64	7.19	11.83	8.24	0.00	0.00	0.00	0.03	0.03	24.6	0	64.5	0	0.00
00:00	28.57	29.72	3.80	4.67	7.24	11.90	8.16	0.00	0.00	0.00	0.03	0.03	23.4	0	69.0	135.9	1.1
Mean	45.85	29.89	3.64	4.68	7.24	11.92	7.70	0.04	0.00	0.01	0.05	0.04	24.77	0.0	69.0	135.9	1.1
Min	26.75	29.58	3.28	4.60	7.13	11.73	6.91	0.00	0.00	0.00	0.03	0.00	21.26	0.00	57.5	0.0	0.0
Max	65.61	30.80	3.97	4.88	7.48	12.37	8.78	0.31	0.05	0.03	0.16	0.10	27.58	0.0	82.8	225.0	7.5



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
**Punto di Campionamento: ATM 01**

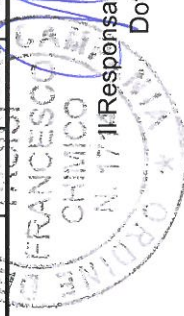
**Data : 29 giugno 2020**

Benzo(a)pirene ng/m <sup>3</sup>
<0.1

Metalli - Giornaliero µg/m <sup>3</sup>	
Nichel	0.016
Arsenico	0.001
Cadmio	<0.001
Piombo	0.003

Time	O3 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO2 µg/m <sup>3</sup>	NO µg/m <sup>3</sup>	NO2 µg/m <sup>3</sup>	NOX µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	Benzene µg/m <sup>3</sup>	Toluene µg/m <sup>3</sup>	Etilbenzene µg/m <sup>3</sup>	M+P-Xilene µg/m <sup>3</sup>	O-Xilene µg/m <sup>3</sup>	TEMP E °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s
01:00	27.53	32.27	3.25	4.64	7.20	11.84	7.31	0.00	0.00	0.00	0.03	0.03	24.2	0	66.1	180	0.00
02:00	25.35	31.91	3.13	4.66	7.22	11.88	7.92	0.00	0.00	0.00	0.03	0.03	22.2	0	69.1	225	1.54
03:00	14.28	31.88	3.20	4.65	7.21	11.86	8.01	0.14	0.00	0.00	0.03	0.03	21.8	0	69.6	0	0.00
04:00	34.00	31.71	3.20	4.65	7.21	11.86	7.73	0.10	0.00	0.00	0.03	0.03	22.0	0	75.4	180	0.35
05:00	32.41	31.88	3.35	4.64	7.19	11.83	7.71	0.00	0.00	0.00	0.06	0.03	21.6	0	78.3	202.5	0.15
06:00	29.23	28.67	3.24	4.68	7.75	12.43	9.28	0.00	0.00	0.00	0.03	0.03	24.1	0	61.2	0	0.00
07:00	29.01	31.07	3.54	4.69	7.19	11.88	8.77	0.12	0.00	0.00	0.03	0.03	25.1	0	69.4	0	0.00
08:00	32.41	29.03	3.15	4.38	6.72	11.10	9.83	0.24	0.00	0.00	0.03	0.03	25.2	0	73.2	157.5	1.78
09:00	39.41	28.98	2.91	4.38	6.71	11.09	8.90	0.22	0.02	0.03	0.13	0.06	25.3	0	68.9	0	0.00
10:00	40.89	28.90	2.97	4.37	6.69	11.06	8.86	0.00	0.02	0.03	0.13	0.06	27.6	0	64.6	157.5	7.25
11:00	44.51	28.98	3.16	4.38	6.71	11.09	8.30	0.00	0.00	0.00	0.06	0.03	27.3	0	61.3	0	0.00
12:00	46.44	29.33	3.08	4.43	6.79	11.22	8.10	0.00	0.00	0.03	0.06	0.03	28.2	0	57.3	135	3.18
13:00	48.69	29.44	3.15	4.45	6.81	11.26	8.00	0.00	0.00	0.06	0.26	0.06	28.2	0	47.9	157.5	3.04
14:00	49.88	29.95	2.87	4.52	6.93	11.45	7.76	0.00	0.00	0.03	0.10	0.03	28.2	0	63.8	0	0.00
15:00	48.75	30.20	3.04	4.56	6.99	11.55	7.52	0.00	0.00	0.00	0.03	0.00	28.5	0	65.7	0	0.00
16:00	51.21	29.84	3.19	4.51	6.91	11.41	7.43	0.00	0.00	0.00	0.03	0.03	28.4	0	67.9	157.5	3.18
17:00	50.47	30.01	3.07	4.53	6.95	11.48	7.53	0.00	0.00	0.00	0.03	0.03	28.2	0	68.2	0	0.00
18:00	49.65	29.46	3.14	4.45	6.82	11.27	7.56	0.10	0.00	0.00	0.03	0.03	28.0	0	70.2	0	0.00
19:00	49.62	29.20	3.13	4.41	6.76	11.17	7.50	0.10	0.00	0.00	0.03	0.00	27.7	0	70.9	0	0.00
20:00	48.03	29.08	3.28	4.39	6.73	11.12	7.47	0.00	0.00	0.00	0.00	0.00	27.1	0	69.8	0	0.00
21:00	44.07	29.04	3.00	4.38	6.72	11.10	7.51	0.00	0.00	0.00	0.00	0.00	27.4	0	63.2	180	28.03
22:00	35.34	29.04	2.99	4.39	6.72	11.11	7.56	0.00	0.00	0.00	0.00	0.00	27.1	0	60.3	0	0.00
23:00	33.26	29.05	3.27	4.39	6.72	11.11	7.79	0.00	0.00	0.00	0.00	0.00	26.7	0	59.8	180	0.52
00:00	32.08	33.49	3.25	4.85	5.79	10.64	7.52	0.00	0.00	0.00	0.00	0.00	26.5	0	60.1	180	0.42

Mean	39.02	30.10	3.15	4.52	6.89	11.41	7.99	0.04	0.00	0.01	0.05	0.03	26.11	0.0	65.9	187.2	2.1
Min	14.28	28.67	2.87	4.37	5.79	10.64	7.31	0.00	0.00	0.00	0.00	0.00	21.56	0.00	47.9	0.0	0.0
Max	51.21	33.49	3.54	4.85	7.75	12.43	9.83	0.24	0.02	0.06	0.26	0.06	28.52	0.0	78.3	225.0	28.0



Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
**Punto di Campionamento: ATM 01**

**Data : 30 giugno 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	29.86	27.10	3.31	4.41	6.75	11.16	7.94	0.00	0.00	0.00	0.00	0.00	26.3	0	59.8	157.5	1.20	<0.1
02:00	31.01	27.11	3.08	4.40	6.75	11.16	7.64	0.00	0.00	0.00	0.00	0.00	24.8	0	60.5	180	0.59	
03:00	33.08	27.18	3.31	4.42	6.77	11.19	7.54	0.00	0.00	0.00	0.00	0.00	25.5	0	59.6	247.5	5.14	
04:00	29.90	27.09	3.61	4.40	6.75	11.15	7.61	0.00	0.00	0.00	0.00	0.00	25.0	0	60.3	202.5	1.01	
05:00	29.82	27.27	3.34	4.43	6.79	11.22	7.59	0.00	0.00	0.00	0.00	0.00	24.8	0	64.0	0	0.00	
06:00	25.05	27.10	3.56	4.40	6.75	11.16	7.52	0.00	0.00	0.00	0.00	0.00	23.7	0	64.8	112.5	1.20	
07:00	25.23	27.08	3.48	4.40	6.75	11.15	7.57	0.00	0.00	0.00	0.00	0.00	24.5	0	61.0	180	0.58	
08:00	28.08	26.97	3.66	4.38	6.72	11.10	7.75	0.00	0.00	0.00	0.00	0.00	26.7	0	58.3	225	6.71	
09:00	30.71	27.05	3.45	4.39	6.74	11.13	7.69	0.00	0.00	0.00	0.00	0.00	26.4	0	66.3	180	1.86	
10:00	36.74	44.15	3.36	7.17	11.00	18.17	7.53	0.14	0.00	0.00	0.00	0.00	26.9	0	66.0	180	1.96	
11:00	43.36	27.05	3.31	4.40	6.74	11.14	7.12	0.14	0.00	0.00	0.00	0.00	28.2	0	60.9	157.5	2.81	
12:00	47.66	27.16	3.23	4.41	6.77	11.18	7.01	0.10	0.00	0.00	0.00	0.00	29.7	0	55.0	0	0.00	
13:00	50.21	27.34	3.54	4.44	6.81	11.25	6.98	0.00	0.00	0.00	0.00	0.00	29.5	0	49.1	157.5	3.23	
14:00	44.51	27.65	3.04	4.49	6.89	11.38	6.95	0.00	0.00	0.00	0.00	0.00	29.0	0	60.8	157.5	4.83	
15:00	49.21	27.52	3.24	4.47	6.85	11.33	6.84	0.00	0.00	0.00	0.00	0.00	29.4	0	56.3	0	0.00	
16:00	49.58	27.39	3.43	4.45	6.82	11.28	6.92	0.00	0.00	0.00	0.00	0.00	29.9	0	46.9	0	0.00	
17:00	48.88	27.19	3.28	4.42	6.77	11.19	6.82	0.22	0.00	0.00	0.00	0.00	29.2	0	67.1	180	2.16	
18:00	49.14	27.05	2.95	4.40	6.74	11.13	6.94	0.22	0.00	0.00	0.00	0.00	29.4	0	61.6	225	1.84	
19:00	51.99	27.13	3.70	4.41	6.76	11.17	6.99	0.00	0.00	0.00	0.00	0.00	29.7	0	53.7	0	0.00	
20:00	51.65	26.97	3.61	4.38	6.72	11.10	7.01	0.00	0.00	0.00	0.03	0.00	29.7	0	50.5	225	0.75	
21:00	49.88	26.99	3.29	4.39	6.72	11.11	7.03	0.00	0.03	0.00	0.03	0.00	29.2	0	50.9	225	0.94	
22:00	38.74	26.92	3.30	4.38	6.71	11.08	7.17	0.00	0.03	0.00	0.03	0.03	29.2	0	49.1	135	1.02	
23:00	38.33	27.13	3.34	4.41	6.76	11.17	7.22	0.00	0.03	0.00	0.03	0.00	28.6	0	49.9	157.5	0.60	
00:00	35.93	27.15	3.43	4.41	6.76	11.17	7.50	0.00	0.03	0.00	0.03	0.03	27.4	0	54.1	135	0.74	
Mean	39.52	27.86	3.37	4.53	6.94	11.47	7.29	0.03	0.00	0.00	0.01	0.00	27.61	0.0	57.8	142.5	1.6	
Min	25.05	26.92	2.95	4.38	6.71	11.08	6.82	0.00	0.00	0.00	0.00	0.00	23.66	0.00	46.9	0.0	0.0	
Max	51.99	44.15	3.70	7.17	11.00	18.17	7.94	0.22	0.03	0.00	0.03	0.03	29.86	0.00	67.1	247.5	6.7	

Metalli - Giornaliero µg/m³	
Nichel	0.014
Arsenico	0.005
Cadmio	0.002
Piombo	0.130



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



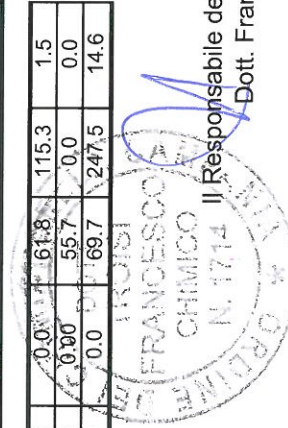


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 01 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	31.60	30.71	3.36	4.41	6.77	11.18	7.40	0.00	0.00	0.00	0.03	0.00	26.7	0	55.7	180	0.48	<0.1
02:00	33.60	30.65	3.43	4.40	6.75	11.16	7.50	0.00	0.00	0.00	0.00	0.00	26.4	0	56.7	202.5	0.19	
03:00	34.26	30.58	3.61	4.39	6.74	11.13	7.54	0.00	0.00	0.00	0.00	0.00	25.4	0	58.6	202.5	14.57	
04:00	30.38	30.61	3.52	4.40	6.74	11.14	7.57	0.00	0.00	0.00	0.00	0.00	25.7	0	58.9	225	0.12	
05:00	30.71	30.61	3.64	4.40	6.74	11.14	7.56	0.00	0.00	0.00	0.00	0.00	24.8	0	59.9	0	0.00	
06:00	28.05	30.76	3.52	4.42	6.78	11.20	7.74	0.00	0.00	0.00	0.00	0.00	24.5	0	65.6	247.5	1.02	
07:00	24.61	30.68	3.89	4.41	6.76	11.17	8.05	0.00	0.00	0.00	0.00	0.00	25.6	0	59.6	0	0.00	
08:00	28.05	30.74	3.75	4.42	6.77	11.19	7.67	0.00	0.00	0.00	0.00	0.00	26.4	0	65.3	157.5	0.83	
09:00	37.67	30.81	3.50	4.43	6.79	11.21	7.26	0.06	0.00	0.00	0.00	0.00	26.9	0	66.6	180	1.20	
10:00	40.37	30.60	3.58	4.40	6.74	11.14	7.27	0.00	0.00	0.00	0.00	0.00	27.0	0	69.7	180	1.93	
11:00	44.33	30.75	3.45	4.42	6.77	11.19	7.19	0.00	0.00	0.00	0.00	0.00	27.8	0	68.9	180	2.40	
12:00	48.69	30.71	3.53	4.41	6.76	11.18	6.90	0.01	0.00	0.00	0.00	0.00	29.0	0	59.4	180	2.52	
13:00	51.21	30.55	3.41	4.39	6.73	11.12	7.07	0.01	0.00	0.00	0.00	0.00	29.4	0	59.2	0	0.00	
14:00	47.88	30.66	3.30	4.41	6.75	11.16	6.90	0.00	0.04	0.00	0.00	0.00	30.0	0	58.3	180	2.81	
15:00	54.21	30.74	3.51	4.42	6.77	11.19	6.86	0.00	0.04	0.00	0.00	0.00	30.5	0	57.0	157.5	3.10	
16:00	52.24	30.93	3.46	4.44	6.81	11.26	6.84	0.00	0.02	0.00	0.00	0.00	30.6	0	60.0	157.5	2.93	
17:00	51.99	30.71	3.52	4.41	6.77	11.18	6.87	0.02	0.00	0.00	0.00	0.00	29.9	0	66.5	0	0.00	
18:00	52.13	30.74	3.33	4.42	6.77	11.19	6.89	0.02	0.00	0.00	0.00	0.00	29.3	0	69.4	0	0.00	
19:00	52.87	30.83	3.16	4.43	6.79	11.22	7.01	0.02	0.00	0.00	0.00	0.00	29.2	0	67.6	0	0.00	
20:00	54.39	30.91	3.44	4.44	6.81	11.25	7.14	0.00	0.00	0.00	0.00	0.00	29.3	0	59.6	0	0.00	
21:00	49.88	30.89	3.48	4.44	6.80	11.24	7.23	0.00	0.00	0.00	0.00	0.00	29.1	0	56.9	0	0.00	
22:00	40.70	30.83	3.69	4.43	6.79	11.22	7.25	0.00	0.00	0.00	0.00	0.00	28.9	0	60.1	157.5	0.77	
23:00	38.00	31.06	3.62	4.46	6.84	11.31	7.29	0.00	0.00	0.00	0.00	0.00	28.1	0	64.0	180	0.30	
00:00	38.07	31.06	3.37	4.46	6.84	11.31	7.38	0.00	0.00	0.00	0.00	0.00	27.8	0	59.3	0	0.00	
Mean	41.49	30.76	3.50	4.42	6.77	11.19	7.27	0.09	0.01	0.00	0.00	0.00	27.85	0.00	61.8	115.3	1.5	
Min	24.61	30.55	3.16	4.39	6.73	11.12	6.84	0.00	0.00	0.00	0.00	0.00	24.46	0.00	55.7	0.0	0.0	
Max	54.39	31.06	3.89	4.46	6.84	11.31	8.05	0.92	0.06	0.00	0.03	0.00	30.63	0.0	69.7	247.5	14.6	



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



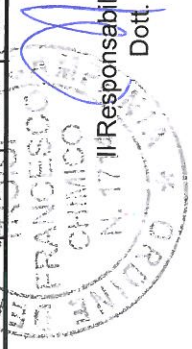
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 02 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	39.70	30.25	3.64	4.44	6.80	11.24	7.61	0.01	0.00	0.00	0.00	0.00	26.6	0	61.8	135	1.09	<0.1
02:00	46.21	30.43	3.61	4.47	6.84	11.31	7.77	0.01	0.00	0.00	0.00	0.00	26.1	0	62.7	180	0.40	
03:00	55.13	30.55	3.55	4.48	6.87	11.36	7.74	0.25	0.02	0.00	0.00	0.00	25.9	0	61.0	112.5	3.83	
04:00	62.12	30.27	3.58	4.44	6.81	11.25	7.58	0.01	0.05	0.00	0.00	0.00	24.9	0	64.5	0	0.00	
05:00	63.75	30.08	3.70	4.41	6.76	11.18	7.55	0.02	0.01	0.00	0.00	0.00	24.0	0	68.3	135	1.24	
06:00	63.34	30.38	3.69	4.46	6.83	11.29	7.51	0.03	0.00	0.00	0.00	0.00	24.3	0	67.8	180	0.74	
07:00	62.94	30.44	3.81	4.47	6.85	11.31	7.73	0.01	0.00	0.00	0.00	0.00	25.8	0	68.1	0	0.00	
08:00	65.97	30.22	3.58	4.43	6.80	11.23	7.52	0.02	0.00	0.00	0.00	0.00	27.0	0	69.1	135	2.13	
09:00	65.12	30.25	3.54	4.44	6.80	11.24	7.24	0.02	0.00	0.00	0.00	0.00	27.4	0	71.3	0	0.00	
10:00	63.64	30.46	3.29	4.47	6.85	11.32	7.18	0.02	0.00	0.00	0.00	0.00	27.7	0	68.3	202.5	1.83	
11:00	66.23	30.32	3.56	4.45	6.82	11.27	7.27	0.02	0.00	0.00	0.00	0.00	29.0	0	62.9	0	0.00	
12:00	66.16	30.27	3.48	4.44	6.81	11.25	7.27	0.03	0.00	0.00	0.00	0.00	30.6	0	57.2	202.5	2.31	
13:00	63.64	30.38	3.32	4.46	6.83	11.29	7.24	0.04	0.00	0.00	0.00	0.00	31.0	0	58.8	202.5	2.86	
14:00	64.90	30.10	3.53	4.42	6.77	11.19	7.09	0.04	0.00	0.00	0.00	0.00	30.6	0	67.2	180	27.86	
15:00	64.82	30.28	3.55	4.44	6.81	11.25	7.06	0.02	0.00	0.00	0.00	0.00	30.9	0	61.2	0	0.00	
16:00	64.82	30.18	3.21	4.43	6.79	11.22	7.15	0.02	0.00	0.00	0.00	0.00	31.2	0	58.4	0	0.00	
17:00	64.31	30.45	3.50	4.47	6.85	11.32	7.14	0.10	0.00	0.00	0.00	0.00	30.3	0	63.1	0	0.00	
18:00	64.71	30.46	3.60	4.47	6.85	11.32	7.23	0.10	0.00	0.00	0.00	0.00	30.2	0	61.1	202.5	1.28	
19:00	64.05	30.32	3.31	4.45	6.82	11.27	7.43	0.21	0.00	0.00	0.00	0.00	30.5	0	60.5	202.5	2.25	
20:00	63.90	30.26	3.23	4.44	6.81	11.25	7.36	0.00	0.00	0.00	0.00	0.00	30.2	0	64.6	0	0.00	
21:00	63.79	30.30	3.41	4.45	6.81	11.26	7.30	0.00	0.00	0.00	0.00	0.00	29.0	0	73.3	0	0.00	
22:00	63.16	30.27	3.35	4.44	6.81	11.25	7.38	0.00	0.00	0.00	0.00	0.00	29.0	0	66.5	0	0.00	
23:00	64.82	30.41	3.43	4.46	6.84	11.30	7.62	0.00	0.00	0.00	0.00	0.00	28.9	0	64.7	0	0.00	
00:00	65.64	30.26	3.70	4.44	6.81	11.24	7.60	0.00	0.00	0.00	0.00	0.00	28.2	0	69.5	180	1.06	
Mean	62.20	30.32	3.51	4.45	6.82	11.27	7.40	0.04	0.00	0.00	0.00	0.00	28.29	0.00	64.7	193.8	2.0	
Min	39.70	30.08	3.21	4.41	6.76	11.18	7.06	0.00	0.00	0.00	0.00	0.00	23.97	0.00	57.2	0.0	0.0	
Max	66.23	30.55	3.81	4.48	6.87	11.36	7.77	0.25	0.05	0.00	0.00	0.00	31.19	0.0	73.3	202.5	27.9	

Metalli - Giornaliero µg/m³	
Nichel	0.018
Arsenico	0.006
Cadmio	<0.001
Piombo	0.060



Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 03 luglio 2020**

<b>Benzo(a)pirene</b> ng/m <sup>3</sup>	<0.1
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<b>Metalli - Giornaliero</b> µg/m <sup>3</sup>	
Nichel	0.015
Arsenico	0.005
Cadmio	<0.001
Piombo	0.060

Time	O3 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO2 µg/m <sup>3</sup>	NO µg/m <sup>3</sup>	NO2 µg/m <sup>3</sup>	NOX µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	Benzene µg/m <sup>3</sup>	Toluene µg/m <sup>3</sup>	Etilbenzene µg/m <sup>3</sup>	M+P-Xilene µg/m <sup>3</sup>	O-Xilene µg/m <sup>3</sup>	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s
01:00	62.83	31.63	3.49	4.45	6.82	11.26	7.78	0.01	0.00	0.00	0.00	0.00	27.5	0	66.6	180	0.45
02:00	62.38	31.76	3.57	4.46	6.84	11.31	8.36	0.02	0.00	0.00	0.00	0.00	28.0	0	64.0	225	0.03
03:00	63.23	31.85	3.52	4.48	6.86	11.34	7.95	0.02	0.00	0.00	0.00	0.00	27.0	0	64.7	0	0.00
04:00	63.94	31.67	3.52	4.45	6.83	11.28	7.57	0.03	0.00	0.00	0.00	0.00	26.0	0	62.2	180	0.39
05:00	62.86	31.69	3.76	4.45	6.83	11.28	7.72	0.03	0.00	0.00	0.00	0.00	26.3	0	66.8	0	0.00
06:00	62.75	31.57	3.79	4.44	6.80	11.24	7.69	0.04	0.00	0.00	0.00	0.00	25.3	0	70.2	0	0.00
07:00	44.03	31.78	3.50	4.47	6.85	11.32	7.77	0.01	0.00	0.00	0.00	0.00	25.6	0	69.9	157.5	1.80
08:00	41.03	31.65	3.45	4.45	6.82	11.27	7.75	0.02	0.00	0.00	0.00	0.00	28.5	0	60.6	180	0.46
09:00	41.07	31.55	3.55	4.44	6.80	11.23	7.72	0.02	0.00	0.00	0.00	0.00	28.8	0	64.1	180	1.51
10:00	44.51	31.67	3.75	4.45	6.82	11.28	7.57	0.03	0.00	0.00	0.00	0.00	28.1	0	72.6	0	0.00
11:00	48.06	31.81	3.67	4.47	6.86	11.33	7.36	0.03	0.00	0.00	0.00	0.00	28.7	0	69.5	180	2.32
12:00	51.32	31.91	3.42	4.49	6.88	11.36	7.40	0.03	0.00	0.00	0.00	0.00	29.3	0	64.4	180	2.75
13:00	52.58	31.82	3.42	4.47	6.86	11.33	7.32	0.02	0.00	0.00	0.00	0.00	30.1	0	59.4	180	3.01
14:00	53.17	31.93	3.32	4.49	6.88	11.37	7.20	0.03	0.00	0.00	0.00	0.00	31.1	0	55.9	180	2.75
15:00	53.91	31.92	3.54	4.49	6.88	11.36	7.24	0.03	0.00	0.00	0.00	0.00	31.3	0	59.2	157.5	2.86
16:00	52.65	31.61	3.53	4.44	6.81	11.26	7.12	0.03	0.00	0.00	0.00	0.00	32.0	0	52.7	180	2.47
17:00	52.73	31.71	3.44	4.46	6.83	11.29	7.48	0.02	0.00	0.00	0.00	0.00	33.3	0	45.1	157.5	3.52
18:00	48.43	31.76	3.61	4.46	6.84	11.31	7.28	0.03	0.00	0.00	0.00	0.00	31.6	0	55.0	157.5	3.39
19:00	43.62	32.02	3.45	4.50	6.90	11.40	7.33	0.03	0.00	0.00	0.00	0.00	30.2	0	63.0	202.5	3.22
20:00	40.96	31.92	3.51	4.49	6.88	11.36	7.70	0.02	0.00	0.00	0.00	0.00	31.1	0	49.2	0	0.00
21:00	36.89	32.12	3.59	4.52	6.92	11.44	7.90	0.04	0.00	0.00	0.00	0.00	31.1	0	44.6	157.5	2.68
22:00	36.15	31.94	3.30	4.49	6.88	11.37	7.99	0.02	0.00	0.00	0.00	0.00	31.7	0	42.5	180	2.47
23:00	37.11	31.89	3.58	4.48	6.87	11.35	8.04	0.02	0.00	0.00	0.00	0.00	29.8	0	53.6	0	0.00
00:00	47.25	32.09	3.34	4.51	6.91	11.43	7.94	0.01	0.00	0.00	0.00	0.00	28.6	0	54.4	180	2.38
Mean	50.14	31.80	3.52	4.47	6.85	11.32	7.63	0.03	0.00	0.00	0.00	0.00	29.22	0.0	59.6	133.7	1.6
Min	36.15	31.55	3.30	4.44	6.80	11.23	7.12	0.01	0.00	0.00	0.00	0.00	25.34	0.00	42.5	0.0	0.0
Max	63.94	32.12	3.79	4.52	6.92	11.44	8.36	0.04	0.00	0.00	0.00	0.00	33.30	0.0	72.6	225.0	3.5



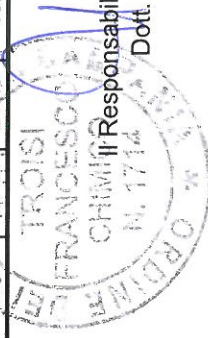


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 04 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	45.55	31.60	3.43	4.49	6.88	11.37	7.92	0.04	0.00	0.00	0.00	0.00	28.5	0	56.4	0	0.00	<0.1
02:00	46.69	31.46	3.58	4.47	6.85	11.32	7.94	0.04	0.00	0.00	0.00	0.00	28.0	0	62.1	225	1.52	
03:00	41.40	31.66	3.53	4.50	6.89	11.39	7.97	0.04	0.00	0.00	0.00	0.00	27.0	0	70.0	225	2.03	
04:00	39.78	31.96	3.72	4.54	6.96	11.50	7.98	0.04	0.00	0.00	0.00	0.00	26.1	0	71.9	0	0.00	
05:00	38.52	31.42	3.54	4.46	6.84	11.31	8.05	0.03	0.00	0.00	0.00	0.00	25.4	0	78.1	0	0.00	
06:00	34.93	31.52	3.31	4.48	6.86	11.34	8.04	0.02	0.00	0.00	0.00	0.00	25.1	0	78.4	0	0.00	
07:00	30.78	31.71	3.38	4.51	6.91	11.41	8.07	0.04	0.00	0.00	0.00	0.00	25.2	0	76.3	202.5	7.38	
08:00	35.00	31.70	3.44	4.50	6.90	11.41	8.05	0.04	0.00	0.00	0.00	0.00	26.1	0	73.7	0	0.00	
09:00	41.44	31.90	3.55	4.53	6.95	11.48	8.03	0.03	0.00	0.00	0.00	0.00	27.5	0	68.4	247.5	2.44	
10:00	45.81	31.70	3.28	4.50	6.90	11.41	8.05	0.02	0.00	0.00	0.00	0.00	30.0	0	55.1	180	3.38	
11:00	52.54	31.90	3.33	4.53	6.95	11.48	8.14	0.03	0.00	0.00	0.00	0.00	31.5	0	47.3	180	2.28	
12:00	52.76	31.65	3.41	4.50	6.89	11.39	8.18	0.04	0.00	0.00	0.00	0.00	31.6	0	54.3	180	2.69	
13:00	52.17	31.50	3.45	4.47	6.86	11.33	7.86	0.00	0.00	0.00	0.00	0.00	30.6	0	63.1	180	3.33	
14:00	51.36	31.74	3.24	4.51	6.91	11.42	7.45	0.01	0.00	0.00	0.00	0.00	30.9	0	58.0	180	2.22	
15:00	54.28	31.81	3.49	4.52	6.93	11.45	7.43	0.03	0.00	0.00	0.00	0.00	25.7	0	70.8	180	10.13	
16:00	54.98	31.93	3.37	4.54	6.95	11.49	7.74	0.02	0.00	0.00	0.00	0.00	23.6	0	67.3	135	4.52	
17:00	52.84	31.80	3.30	4.52	6.93	11.44	7.72	0.02	0.00	0.00	0.00	0.00	25.3	0	60.5	0	0.00	
18:00	51.65	31.93	3.12	4.54	6.95	11.49	7.58	0.03	0.00	0.00	0.00	0.00	25.5	0	60.5	0	0.00	
19:00	57.50	31.51	3.30	4.48	6.86	11.34	7.59	0.03	0.00	0.00	0.00	0.00	25.1	0	63.2	0	0.00	
20:00	65.68	31.64	3.41	4.50	6.89	11.39	7.60	0.02	0.00	0.00	0.00	0.00	23.6	0	71.1	0	0.00	
21:00	62.97	31.81	3.42	4.52	6.93	11.45	7.67	0.03	0.00	0.00	0.00	0.00	23.8	0	66.8	157.5	1.68	
22:00	65.53	27.51	3.52	4.53	6.94	11.47	7.73	0.01	0.00	0.00	0.00	0.00	23.6	0	68.7	0	0.00	
23:00	58.50	28.44	3.50	4.52	6.93	11.45	7.70	0.04	0.00	0.00	0.00	0.00	23.6	0	72.0	202.5	2.97	
00:00	57.76	24.98	3.21	4.50	6.90	11.41	7.66	0.00	0.00	0.00	0.00	0.00	23.6	0	72.0	202.5	2.97	
Mean	49.60	31.12	3.41	4.51	6.91	11.41	7.84	0.03	0.00	0.00	0.00	0.00	26.46	0.0	66.7	109.7	2.2	
Min	30.78	24.98	3.12	4.46	6.84	11.31	7.43	0.00	0.00	0.00	0.00	0.00	21.66	0.00	47.3	0.0	0.0	
Max	65.68	31.96	3.72	4.54	6.96	11.50	8.18	0.04	0.00	0.00	0.00	0.00	31.57	0.0	87.2	247.5	10.1	



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



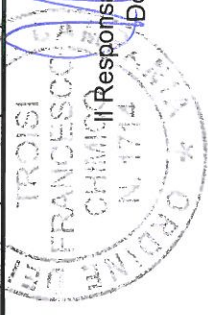
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 05 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	58.72	20.35	3.30	4.51	6.92	11.43	7.65	0.03	0.00	0.00	0.00	0.00	23.9	0	71.9	180	3.42	<0.1
02:00	58.50	20.33	3.17	4.51	6.91	11.42	7.69	0.03	0.00	0.00	0.00	0.00	23.8	0	76.0	225	2.49	<0.1
03:00	58.24	16.94	3.34	4.50	6.90	11.40	7.75	0.04	0.00	0.00	0.00	0.00	23.3	0	77.7	0	0.00	<0.1
04:00	58.79	16.99	3.26	4.51	6.92	11.43	7.78	0.04	0.00	0.00	0.00	0.00	22.7	0	78.2	247.5	2.53	<0.1
05:00	65.49	17.07	3.15	4.54	6.95	11.49	7.80	0.03	0.00	0.00	0.00	0.00	22.7	0	67.5	0	0.00	<0.1
06:00	64.42	17.04	3.10	4.53	6.94	11.47	7.77	0.00	0.00	0.00	0.00	0.00	22.4	0	70.6	202.5	30.03	<0.1
07:00	63.83	16.99	3.38	4.51	6.92	11.43	7.79	0.03	0.00	0.00	0.00	0.00	23.1	0	72.2	0	0.00	<0.1
08:00	63.68	16.99	3.13	4.51	6.92	11.43	7.80	0.04	0.00	0.00	0.00	0.00	24.2	0	65.9	202.5	3.14	<0.1
09:00	62.97	17.16	3.02	4.56	6.99	11.55	7.84	0.04	0.00	0.00	0.00	0.00	25.5	0	62.0	180	6.52	<0.1
10:00	46.29	16.92	3.21	4.49	6.89	11.38	7.80	0.03	0.00	0.00	0.00	0.00	26.6	0	60.6	135	4.49	<0.1
11:00	44.70	17.03	3.25	4.53	6.94	11.46	7.81	0.02	0.00	0.00	0.00	0.00	27.8	0	59.3	135	4.63	<0.1
12:00	42.37	16.97	3.62	4.51	6.91	11.42	7.74	0.00	0.00	0.00	0.00	0.00	28.9	0	55.6	157.5	3.83	<0.1
13:00	45.62	17.06	3.36	4.53	6.95	11.48	7.75	0.01	0.00	0.00	0.00	0.00	29.2	0	53.4	0	0.00	<0.1
14:00	49.14	16.93	3.48	4.50	6.90	11.40	7.99	0.02	0.00	0.00	0.00	0.00	29.3	0	52.5	112.5	7.03	<0.1
15:00	47.58	16.92	3.24	4.50	6.89	11.39	6.53	0.02	0.00	0.00	0.00	0.00	29.9	0	48.7	112.5	7.11	<0.1
16:00	41.96	17.05	3.47	4.53	6.95	11.48	6.60	0.02	0.00	0.00	0.00	0.00	30.4	0	45.2	112.5	6.77	<0.1
17:00	44.14	17.00	3.32	4.52	6.93	11.44	6.66	0.01	0.00	0.00	0.00	0.00	30.3	0	44.6	135	6.57	<0.1
18:00	46.07	16.93	3.09	4.50	6.90	11.40	6.65	0.02	0.09	0.00	0.00	0.00	29.9	0	44.8	0	0.00	<0.1
19:00	50.21	17.12	3.37	4.55	6.97	11.52	6.64	0.02	0.16	0.00	0.00	0.00	29.1	0	46.5	112.5	7.07	<0.1
20:00	49.95	17.00	3.28	4.52	6.93	11.44	6.57	0.02	0.03	0.00	0.00	0.00	28.3	0	49.4	135	5.53	<0.1
21:00	45.77	17.14	3.37	4.55	6.98	11.53	6.57	0.02	0.02	0.00	0.00	0.00	27.1	0	51.7	157.5	4.14	<0.1
22:00	39.85	16.98	3.22	4.51	6.92	11.43	6.55	0.71	0.00	0.00	0.00	0.00	26.5	0	53.3	135	5.26	<0.1
23:00	36.48	17.08	3.16	4.54	6.96	11.50	6.53	0.00	0.00	0.00	0.00	0.00	26.3	0	53.1	157.5	4.58	<0.1
00:00	35.93	17.18	3.23	4.57	7.00	11.56	6.61	0.01	0.00	0.00	0.00	0.00	26.0	0	55.2	225	2.66	<0.1
Mean	50.86	17.30	3.27	4.52	6.93	11.45	7.28	0.05	0.01	0.00	0.00	0.00	26.55	0.0	59.0	127.5	4.9	<0.1
Min	35.93	16.92	3.02	4.49	6.89	11.38	6.53	0.00	0.00	0.00	0.00	0.00	22.41	0.00	44.6	0.0	0.0	<0.1
Max	65.49	20.35	3.62	4.57	7.00	11.56	7.99	0.71	0.16	0.00	0.00	0.00	30.42	0.0	78.2	247.5	30.0	<0.1

Metalli - Giornaliero µg/m³	
Nichel	0.015
Arsenico	0.002
Cadmio	<0.001
Piombo	0.030



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



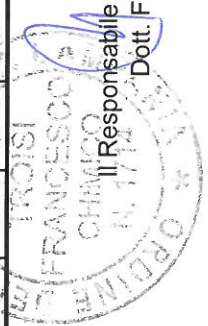
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 06 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	37.67	19.47	3.40	4.54	6.96	11.51	6.75	0.00	0.00	0.00	0.00	0.00	24.9	0	65.4	225	3.66	<0.1
02:00	37.67	19.40	3.24	4.53	6.94	11.46	6.71	0.00	0.00	0.00	0.00	0.00	24.3	0	66.3	0	0.00	<0.1
03:00	33.82	19.37	3.44	4.52	6.93	11.45	6.61	0.00	0.00	0.00	0.00	0.00	23.2	0	68.0	247.5	2.26	<0.1
04:00	34.37	19.41	3.05	4.53	6.94	11.47	6.53	0.00	0.00	0.00	0.00	0.00	23.4	0	49.7	225	2.87	<0.1
05:00	31.30	19.43	3.22	4.53	6.95	11.48	6.48	0.00	0.00	0.00	0.00	0.00	24.2	0	57.4	157.5	3.84	<0.1
06:00	30.64	19.41	3.24	4.53	6.94	11.47	6.49	0.00	0.00	0.00	0.00	0.00	24.8	0	53.9	157.5	4.18	<0.1
07:00	29.82	19.28	3.24	4.50	6.90	11.40	6.64	0.00	0.00	0.00	0.00	0.00	24.8	0	59.3	135	4.90	<0.1
08:00	30.90	19.48	3.36	4.55	6.97	11.51	6.75	0.00	0.00	0.00	0.00	0.00	25.2	0	61.3	0	0.00	<0.1
09:00	34.82	19.48	3.52	4.54	6.97	11.51	6.80	0.00	0.00	0.00	0.00	0.00	26.3	0	60.0	135	4.27	<0.1
10:00	37.81	19.34	3.26	4.51	6.92	11.43	6.75	0.00	0.00	0.00	0.00	0.00	27.5	0	57.7	135	4.61	<0.1
11:00	45.10	19.45	3.24	4.54	6.96	11.49	6.66	0.00	0.00	0.00	0.00	0.00	29.1	0	52.2	0	0.00	<0.1
12:00	43.88	19.48	3.22	4.54	6.97	11.51	6.74	0.00	0.00	0.00	0.00	0.00	30.3	0	48.7	0	0.00	<0.1
13:00	41.70	19.55	3.06	4.56	6.99	11.55	6.61	0.00	0.00	0.00	0.00	0.00	31.2	0	44.9	0	0.00	<0.1
14:00	47.36	19.37	3.04	4.52	6.93	11.45	6.47	0.00	0.00	0.00	0.00	0.00	31.0	0	45.4	157.5	4.24	<0.1
15:00	45.21	19.29	3.23	4.50	6.90	11.40	6.42	0.00	0.00	0.00	0.00	0.00	31.2	0	45.9	0	0.00	<0.1
16:00	43.11	19.41	3.09	4.53	6.94	11.47	6.30	0.00	0.00	0.00	0.00	0.00	31.9	0	38.9	0	0.00	<0.1
17:00	38.30	19.41	2.86	4.53	6.94	11.47	6.30	0.00	0.00	0.00	0.00	0.00	32.0	0	38.0	0	0.00	<0.1
18:00	40.74	19.45	2.90	4.54	6.96	11.49	6.34	0.00	0.00	0.00	0.00	0.00	31.7	0	40.2	0	0.00	<0.1
19:00	42.48	19.40	2.90	4.53	6.94	11.46	6.35	0.00	0.00	0.00	0.00	0.00	31.0	0	42.3	135	4.64	<0.1
20:00	40.59	19.43	3.21	4.53	6.95	11.49	6.30	0.00	0.00	0.00	0.00	0.00	29.8	0	44.0	0	0.00	<0.1
21:00	40.48	19.44	2.94	4.54	6.95	11.49	6.30	0.00	0.00	0.00	0.00	0.00	28.5	0	47.5	135	6.61	<0.1
22:00	42.51	19.33	3.06	4.51	6.91	11.42	6.38	0.00	0.00	0.00	0.00	0.00	27.3	0	52.7	0	0.00	<0.1
23:00	43.81	19.41	2.76	4.53	6.94	11.47	6.49	0.00	0.00	0.00	0.00	0.00	26.3	0	56.9	0	0.00	<0.1
00:00	50.10	19.46	2.92	4.54	6.96	11.50	6.55	0.00	0.00	0.00	0.00	0.00	25.3	0	60.9	225	8.35	<0.1
Mean	39.34	19.41	3.14	4.53	6.94	11.47	6.53	0.19	0.00	0.00	0.00	0.00	27.71	0.0	52.4	86.3	2.3	<0.1
Min	29.82	19.28	2.76	4.50	6.90	11.40	6.30	0.00	0.00	0.00	0.00	0.00	23.21	0.00	38.0	0.0	0.0	<0.1
Max	50.10	19.55	3.52	4.56	6.99	11.55	6.80	1.23	0.05	0.00	0.00	0.00	31.96	0.0	68.0	247.5	8.4	<0.1

Il Responsabile del Laboratorio  
Dott. Francesco Troisi



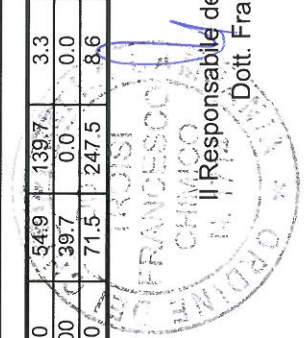


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 07 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	57.91	19.38	2.90	4.52	6.93	11.45	6.56	0.02	0.00	0.00	0.00	0.00	22.9	0	61.8	180	1.83	<0.1
02:00	64.57	19.42	2.89	4.53	6.95	11.48	6.60	0.03	0.00	0.00	0.00	0.00	24.1	0	69.8	225	2.36	
03:00	65.53	23.57	2.78	4.53	6.94	11.47	6.61	0.02	0.00	0.00	0.00	0.00	23.4	0	69.9	247.5	2.64	
04:00	62.68	23.65	3.07	4.54	6.96	11.51	6.60	0.02	0.03	0.00	0.00	0.00	23.5	0	68.4	247.5	2.23	
05:00	63.12	23.75	2.71	4.56	6.99	11.56	6.60	1.12	0.01	0.00	0.00	0.00	23.0	0	71.5	247.5	1.92	
06:00	62.60	23.57	3.03	4.53	6.94	11.47	6.65	1.53	0.00	0.00	0.00	0.00	23.2	0	69.0	225	2.17	
07:00	63.27	23.56	2.91	4.53	6.94	11.46	6.68	0.92	0.00	0.00	0.00	0.00	23.6	0	66.3	247.5	2.76	
08:00	65.75	23.65	2.74	4.54	6.97	11.51	6.62	0.96	0.00	0.00	0.00	0.00	23.1	0	53.4	225	2.77	
09:00	64.34	23.69	2.87	4.55	6.98	11.53	6.64	0.31	0.00	0.00	0.00	0.00	22.1	0	61.0	202.5	1.84	
10:00	57.28	23.77	2.97	4.57	7.00	11.57	6.60	0.10	0.01	0.00	0.00	0.00	28.1	0	54.3	0	0.00	
11:00	50.95	23.53	2.93	4.52	6.93	11.45	6.61	0.00	0.00	0.00	0.00	0.00	30.6	0	41.5	135	5.91	
12:00	46.18	23.64	2.97	4.54	6.96	11.51	6.77	0.00	0.00	0.00	0.00	0.00	30.5	0	48.6	135	6.05	
13:00	39.55	23.67	3.01	4.55	6.97	11.52	7.00	0.00	0.01	0.00	0.00	0.00	31.0	0	48.6	112.5	7.42	
14:00	37.30	23.81	3.05	4.57	7.01	11.59	7.02	0.00	0.00	0.00	0.00	0.00	31.5	0	45.1	0	0.00	
15:00	33.78	23.69	3.29	4.55	6.98	11.53	7.02	0.01	0.00	0.00	0.00	0.00	31.5	0	44.3	112.5	8.49	
16:00	31.45	23.76	3.00	4.57	7.00	11.56	7.04	0.01	0.02	0.00	0.00	0.00	30.6	0	45.2	0	0.00	
17:00	30.64	23.72	3.07	4.56	6.98	11.54	7.01	0.01	0.02	0.00	0.00	0.00	29.6	0	45.9	112.5	8.55	
18:00	28.97	23.73	3.17	4.56	6.99	11.55	6.85	0.02	0.00	0.00	0.00	0.00	29.0	0	40.8	0	0.00	
19:00	29.30	23.66	2.87	4.55	6.97	11.51	6.83	0.02	0.00	0.00	0.00	0.00	28.3	0	39.7	112.5	7.49	
20:00	29.60	23.46	2.80	4.51	6.91	11.41	6.85	0.20	0.00	0.00	0.00	0.00	27.0	0	47.8	112.5	5.74	
21:00	30.67	23.67	3.08	4.55	6.97	11.52	6.84	0.41	0.00	0.00	0.00	0.00	24.0	0	52.4	157.5	3.16	
22:00	29.90	23.74	2.94	4.56	6.99	11.55	6.93	0.02	0.00	0.00	0.00	0.00	14.6	0	51.9	157.5	3.07	
23:00	29.56	23.74	3.15	4.56	6.99	11.55	6.92	0.02	0.00	0.00	0.00	0.00	24.1	0	58.8	0	0.00	
00:00	29.27	23.76	2.98	4.57	7.00	11.56	6.94	0.02	0.00	0.00	0.00	0.00	23.6	0	62.9	157.5	2.94	
Mean	46.01	23.32	2.97	4.55	6.97	11.52	6.78	0.24	0.00	0.00	0.00	0.00	25.95	0.0	54.9	139.7	3.3	
Min	28.97	19.38	2.71	4.51	6.91	11.41	6.56	0.00	0.00	0.00	0.00	0.00	14.55	0.00	39.7	0.0	0.0	
Max	65.75	23.81	3.29	4.57	7.01	11.59	7.04	1.53	0.03	0.00	0.00	0.00	31.51	0.0	71.5	247.5	8.6	



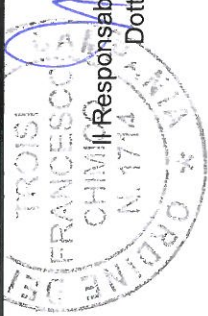


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 08 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	27.71	20.75	2.96	4.54	6.96	11.51	6.98	0.02	0.00	0.00	0.00	0.00	22.9	0	61.3	180	8.99	<0.1
02:00	31.30	20.79	2.96	4.55	6.97	11.52	6.88	0.02	0.00	0.00	0.00	0.00	22.5	0	69.8	180	12.59	<0.1
03:00	30.64	20.93	3.08	4.58	7.02	11.60	6.83	0.02	0.00	0.00	0.00	0.00	22.0	0	70.5	0	0.00	<0.1
04:00	29.82	20.89	2.97	4.57	7.01	11.58	6.77	0.02	0.00	0.00	0.00	0.00	21.6	0	67.3	202.5	3.10	<0.1
05:00	30.90	20.82	2.94	4.56	6.98	11.54	6.78	0.20	0.00	0.00	0.00	0.00	21.2	0	69.2	247.5	4.21	<0.1
06:00	34.82	20.89	3.07	4.57	7.01	11.58	6.76	0.20	0.00	0.00	0.00	0.00	20.8	0	70.4	0	0.00	<0.1
07:00	37.81	20.81	3.09	4.56	6.98	11.54	6.79	0.41	0.00	0.00	0.00	0.00	20.8	0	69.1	247.5	4.39	<0.1
08:00	45.10	20.86	2.94	4.56	7.00	11.56	6.89	0.02	0.00	0.00	0.00	0.00	21.3	0	69.3	225	3.09	<0.1
09:00	43.88	20.94	3.21	4.58	7.03	11.61	6.96	0.02	0.00	0.00	0.00	0.00	23.8	0	57.4	180	4.71	<0.1
10:00	41.70	20.91	3.00	4.58	7.01	11.59	6.93	0.02	0.00	0.00	0.00	0.00	25.6	0	44.3	135	13.48	<0.1
11:00	62.27	20.88	3.20	4.57	7.01	11.58	6.90	0.02	0.00	0.00	0.00	0.00	26.5	0	42.2	112.5	6.00	<0.1
12:00	58.24	20.91	3.21	4.58	7.02	11.59	6.83	0.02	0.00	0.00	0.00	0.00	27.3	0	40.9	135	5.08	<0.1
13:00	53.54	20.87	3.44	4.57	7.00	11.57	6.77	0.02	0.00	0.00	0.00	0.00	28.3	0	37.9	135	5.14	<0.1
14:00	50.51	21.03	3.15	4.60	7.06	11.66	6.82	0.02	0.00	0.00	0.00	0.00	28.6	0	35.3	0	0.00	<0.1
15:00	47.73	21.08	2.90	4.61	7.07	11.69	6.80	0.02	0.00	0.00	0.00	0.00	28.9	0	32.1	135	4.65	<0.1
16:00	44.44	20.87	2.94	4.57	7.00	11.57	6.74	0.02	0.00	0.00	0.00	0.00	29.0	0	33.5	135	5.01	<0.1
17:00	46.99	21.09	3.23	4.62	7.08	11.69	6.54	0.02	0.00	0.00	0.00	0.00	29.5	0	36.4	157.5	10.23	<0.1
18:00	35.26	20.92	2.96	4.58	7.02	11.60	6.58	0.02	0.00	0.00	0.00	0.00	29.2	0	40.3	0	0.00	<0.1
19:00	34.82	20.93	2.85	4.58	7.02	11.60	6.54	0.02	0.00	0.00	0.00	0.00	28.4	0	42.7	135	5.01	<0.1
20:00	33.26	21.09	2.91	4.62	7.08	11.69	6.56	0.02	0.00	0.00	0.00	0.00	27.2	0	45.8	157.5	2.13	<0.1
21:00	31.78	21.01	3.25	4.60	7.05	11.65	6.54	0.02	0.00	0.00	0.00	0.00	25.7	0	51.6	225	1.74	<0.1
22:00	31.97	20.95	3.09	4.59	7.03	11.62	6.68	0.02	0.00	0.00	0.00	0.00	24.5	0	57.0	157.5	2.71	<0.1
23:00	31.45	21.00	2.99	4.60	7.05	11.64	6.78	0.02	0.00	0.00	0.00	0.00	23.2	0	58.9	0	0.00	<0.1
00:00	30.64	20.95	3.00	4.58	7.03	11.61	6.75	0.02	0.00	0.00	0.00	0.00	22.2	0				<0.1
Mean	39.44	20.92	3.06	4.58	7.02	11.60	6.77	0.05	0.00	0.00	0.00	0.00	25.05	0.0	51.5	128.4	4.3	<0.1
Min	27.71	20.75	2.85	4.54	6.96	11.51	6.54	0.02	0.00	0.00	0.00	0.00	20.80	0.00	32.1	0.0	0.0	<0.1
Max	62.27	21.09	3.44	4.62	7.08	11.69	6.98	0.41	0.00	0.00	0.00	0.00	29.51	0.00	70.5	247.5	13.5	<0.1



Il Responsabile del Laboratorio  
Dott. Francesco Troisi





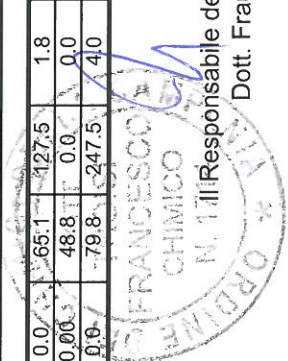
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 09 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	28.97	21.83	3.06	4.60	7.05	11.64	6.73	0.02	0.00	0.00	0.00	0.00	21.6	0	61.9	135	2.35	<0.1
02:00	29.30	21.78	3.20	4.59	7.03	11.62	6.86	0.02	0.00	0.00	0.00	0.00	20.5	0	66.6	0	0.00	<0.1
03:00	15.61	21.83	3.26	4.60	7.05	11.64	6.78	0.02	0.00	0.00	0.00	0.00	20.7	0	72.1	247.5	1.90	<0.1
04:00	16.47	21.68	2.85	4.57	7.00	11.57	6.84	0.02	0.00	0.00	0.00	0.00	20.6	0	74.0	0	0.00	<0.1
05:00	14.91	21.87	2.96	4.61	7.06	11.67	6.86	0.02	0.00	0.00	0.00	0.00	19.0	0	78.2	112.5	2.89	<0.1
06:00	10.25	21.63	2.89	4.56	6.98	11.54	6.86	0.02	0.00	0.00	0.00	0.00	18.8	0	79.8	0	0.00	<0.1
07:00	18.24	21.74	3.11	4.58	7.02	11.60	6.91	0.02	0.00	0.00	0.00	0.00	19.8	0	78.3	180	1.84	<0.1
08:00	23.79	21.85	3.01	4.60	7.05	11.66	6.95	0.02	0.00	0.00	0.00	0.00	21.4	0	74.7	0	0.00	<0.1
09:00	26.86	21.75	3.02	4.58	7.02	11.60	7.03	0.02	0.00	0.00	0.00	0.00	23.3	0	66.4	225	2.13	<0.1
10:00	28.08	21.75	3.12	4.58	7.02	11.60	7.10	0.02	0.00	0.00	0.00	0.00	24.5	0	66.6	180	2.13	<0.1
11:00	28.53	21.81	3.01	4.59	7.04	11.63	7.06	0.02	0.00	0.00	0.00	0.00	25.6	0	64.8	180	4.00	<0.1
12:00	29.42	21.67	3.21	4.56	7.00	11.56	7.08	0.02	0.00	0.00	0.00	0.00	26.4	0	60.5	180	3.09	<0.1
13:00	30.86	21.92	3.09	4.62	7.08	11.69	7.06	0.02	0.00	0.00	0.00	0.00	27.5	0	48.8	180	3.35	<0.1
14:00	37.04	21.81	3.03	4.59	7.04	11.63	7.01	0.02	0.00	0.00	0.00	0.00	27.4	0	53.4	180	2.87	<0.1
15:00	36.67	21.84	3.09	4.60	7.05	11.65	7.02	0.02	0.00	0.00	0.00	0.00	27.8	0	57.0	180	2.77	<0.1
16:00	37.85	21.83	3.22	4.60	7.05	11.65	7.08	0.31	0.00	0.00	0.00	0.00	28.1	0	58.1	180	2.78	<0.1
17:00	38.18	22.05	3.04	4.64	7.12	11.76	7.09	0.10	0.00	0.00	0.00	0.00	28.2	0	57.2	180	2.66	<0.1
18:00	40.74	21.79	2.89	4.59	7.04	11.63	7.09	0.51	0.00	0.00	0.00	0.00	26.9	0	71.9	180	2.54	<0.1
19:00	40.52	21.74	2.88	4.58	7.02	11.60	7.05	0.02	0.00	0.00	0.00	0.00	26.6	0	72.0	180	1.57	<0.1
20:00	37.93	21.75	3.00	4.58	7.02	11.60	7.03	0.02	0.00	0.00	0.00	0.00	26.3	0	71.2	202.5	0.84	<0.1
21:00	38.00	21.72	2.98	4.58	7.01	11.59	7.07	0.02	0.00	0.00	0.00	0.00	25.9	0	64.5	0	0.00	<0.1
22:00	36.78	21.89	3.15	4.61	7.07	11.68	7.25	0.02	0.00	0.00	0.00	0.00	25.7	0	58.9	0	0.00	<0.1
23:00	36.41	21.75	3.00	4.58	7.02	11.60	7.28	0.02	0.00	0.00	0.00	0.00	24.9	0	53.8	157.5	3.53	<0.1
00:00	26.46	21.80	2.91	4.59	7.04	11.63	7.27	0.02	0.00	0.00	0.00	0.00	23.7	0	52.5	0	0.00	<0.1
Mean	29.49	21.79	3.04	4.59	7.04	11.63	7.02	0.06	0.00	0.00	0.00	0.00	24.23	0.0	65.1	127.5	1.8	<0.1
Min	10.25	21.63	2.85	4.56	6.98	11.54	6.73	0.02	0.00	0.00	0.00	0.00	18.83	0.0	48.8	0.0	0.0	<0.1
Max	40.74	22.05	3.26	4.64	7.12	11.76	7.28	0.51	0.00	0.00	0.00	0.00	28.20	0.0	79.8	247.5	4.0	<0.1

Metalli - Giornaliero µg/m³	
Nichel	0.018
Arsenico	0.002
Cadmio	<0.001
Piombo	0.040



Dott. Francesco Troisi

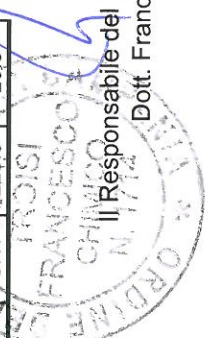


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 10 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	19.24	31.93	3.08	4.64	7.11	11.75	7.18	0.02	0.00	0.00	0.00	0.00	22.2	0	52.7	0	0.00	<0.1
02:00	19.39	31.74	3.00	4.61	7.07	11.68	7.10	0.02	0.00	0.00	0.00	0.00	21.3	0	52.1	112.5	0.92	<0.1
03:00	19.24	31.70	2.75	4.60	7.06	11.66	7.04	0.02	0.00	0.00	0.00	0.00	21.4	0	51.2	135	0.74	<0.1
04:00	20.31	31.54	2.99	4.58	7.02	11.60	7.05	0.10	0.00	0.00	0.00	0.00	21.6	0	57.2	202.5	0.12	<0.1
05:00	13.39	31.39	3.04	4.56	6.99	11.55	7.23	0.10	0.00	0.00	0.00	0.00	21.4	0	66.7	225	0.43	<0.1
06:00	12.28	31.85	3.30	4.63	7.09	11.72	7.00	0.02	0.00	0.00	0.00	0.00	21.3	0	54.3	0	0.00	<0.001
07:00	8.84	31.62	3.03	4.59	7.04	11.63	7.00	0.02	0.00	0.00	0.00	0.00	21.7	0	52.3	0	0.00	<0.001
08:00	17.32	31.85	3.20	4.63	7.09	11.72	7.14	0.02	0.00	0.00	0.00	0.00	23.7	0	54.4	180	0.74	<0.001
09:00	25.57	31.82	3.06	4.62	7.08	11.71	7.40	0.02	0.00	0.00	0.00	0.00	23.7	0	66.3	0	0.00	0.005
10:00	29.42	31.74	2.85	4.61	7.07	11.68	7.40	0.10	0.00	0.00	0.00	0.00	24.4	0	59.1	180	1.62	<0.001
11:00	31.08	32.82	3.13	4.77	7.31	12.07	7.12	0.10	0.00	0.00	0.00	0.00	25.3	0	55.9	0	0.00	<0.001
12:00	30.82	31.51	3.04	4.58	7.02	11.59	6.88	0.02	0.00	0.00	0.00	0.00	26.3	0	54.6	180	2.79	<0.001
13:00	32.49	31.74	2.88	4.61	7.07	11.68	7.19	0.10	0.00	0.00	0.00	0.00	27.1	0	53.1	180	2.96	<0.001
14:00	34.63	31.54	2.99	4.58	7.02	11.61	7.23	0.02	0.00	0.00	0.00	0.00	27.8	0	58.8	180	29.30	<0.001
15:00	35.48	31.88	3.15	4.63	7.10	11.73	7.27	0.02	0.00	0.00	0.00	0.00	27.8	0	54.6	0	0.00	<0.001
16:00	33.74	31.68	2.91	4.60	7.05	11.66	7.21	0.02	0.00	0.00	0.00	0.00	27.9	0	60.8	180	2.69	<0.001
17:00	34.30	31.76	2.96	4.61	7.07	11.69	7.20	0.00	0.00	0.00	0.00	0.00	28.0	0	58.7	157.5	2.70	<0.001
18:00	34.04	31.75	2.80	4.61	7.07	11.68	7.22	0.20	0.00	0.00	0.00	0.00	27.7	0	64.4	157.5	1.88	<0.001
19:00	34.26	31.57	2.79	4.59	7.03	11.62	7.20	0.31	0.00	0.00	0.00	0.00	27.3	0	67.1	180	1.00	<0.001
20:00	34.63	31.51	2.68	4.58	7.02	11.59	7.16	0.02	0.00	0.00	0.00	0.00	27.8	0	51.5	202.5	0.31	<0.001
21:00	32.67	31.83	2.83	4.62	7.09	11.71	7.12	0.02	0.00	0.00	0.00	0.00	27.7	0	41.3	225	0.70	<0.001
22:00	27.31	31.79	2.71	4.62	7.08	11.70	7.39	0.02	0.00	0.00	0.00	0.00	27.3	0	40.7	180	6.62	<0.001
23:00	28.12	31.84	2.76	4.62	7.09	11.71	7.33	0.02	0.00	0.00	0.00	0.00	25.9	0	46.9	180	12.64	<0.001
00:00	23.98	31.87	2.76	4.63	7.10	11.73	7.25	0.02	0.00	0.00	0.00	0.00	25.1	0	47.1	180	4.19	<0.001
Mean	26.36	31.76	2.95	4.61	7.07	11.69	7.18	0.06	0.00	0.00	0.00	0.00	25.05	0.0	55.1	134.1	3.0	<0.001
Min	8.84	31.39	2.68	4.56	6.99	11.55	6.88	0.00	0.00	0.00	0.00	0.00	21.33	0.0	40.7	0.0	0.0	<0.001
Max	35.48	32.82	3.30	4.77	7.31	12.07	7.40	0.31	0.00	0.00	0.00	0.00	27.96	0.0	67.1	225.0	29.3	<0.001



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



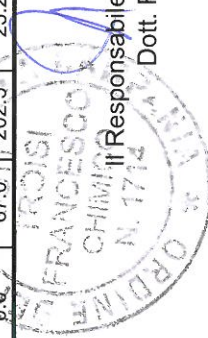
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 11 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	19.72	32.92	2.70	4.61	7.06	11.67	7.17	0.02	0.00	0.00	0.00	0.00	24.1	0	48.5	180	4.16	<0.1
02:00	12.91	33.03	2.79	4.62	7.09	11.71	7.32	0.02	0.00	0.00	0.00	0.00	23.9	0	49.6	202.5	5.85	
03:00	8.95	33.06	2.76	4.63	7.09	11.72	7.42	0.02	0.00	0.00	0.00	0.00	23.4	0	51.3	202.5	10.55	
04:00	10.32	32.90	2.79	4.61	7.06	11.66	7.16	0.10	0.00	0.00	0.00	0.00	22.6	0	49.4	135	1.02	
05:00	15.61	33.04	2.80	4.63	7.09	11.72	7.03	0.20	0.00	0.00	0.00	0.00	21.6	0	50.2	180	0.52	
06:00	16.47	33.26	2.90	4.66	7.14	11.79	7.31	0.02	0.00	0.00	0.00	0.00	21.7	0	53.4	180	0.22	
07:00	14.91	32.99	2.89	4.62	7.08	11.70	7.19	0.02	0.00	0.00	0.00	0.00	22.3	0	50.3	135	0.66	
08:00	10.25	33.03	2.89	4.62	7.09	11.71	7.42	0.02	0.00	0.00	0.00	0.00	25.1	0	50.1	180	11.61	
09:00	18.24	32.85	2.97	4.60	7.05	11.65	7.77	0.02	0.00	0.00	0.00	0.00	25.8	0	51.9	180	22.69	
10:00	23.79	33.14	2.77	4.64	7.11	11.75	7.60	0.02	0.00	0.00	0.00	0.00	25.7	0	49.4	180	25.23	
11:00	26.86	32.98	2.82	4.62	7.08	11.69	7.46	0.02	0.00	0.00	0.00	0.00	26.2	0	52.8	180	12.26	
12:00	28.08	32.98	2.68	4.62	7.08	11.69	7.43	0.02	0.00	0.00	0.00	0.00	26.6	0	57.2	157.5	2.06	
13:00	28.53	32.92	2.75	4.61	7.06	11.67	7.47	0.02	0.00	0.00	0.00	0.00	27.8	0	56.1	157.5	2.59	
14:00	29.42	33.27	2.62	4.66	7.14	11.80	7.52	0.02	0.00	0.00	0.00	0.00	28.1	0	63.5	0	0.00	
15:00	30.86	32.81	2.98	4.59	7.04	11.63	7.43	0.10	0.00	0.00	0.00	0.00	28.1	0	67.0	0	0.00	
16:00	30.23	32.88	2.71	4.60	7.06	11.66	7.49	0.41	0.00	0.00	0.00	0.00	28.5	0	63.8	0	0.00	
17:00	29.05	32.80	2.94	4.59	7.04	11.63	7.55	0.31	0.00	0.00	0.00	0.00	29.2	0	58.8	157.5	3.21	
18:00	28.75	33.03	2.89	4.62	7.09	11.71	7.48	0.02	0.00	0.00	0.00	0.00	28.6	0	64.1	157.5	2.55	
19:00	29.08	32.94	2.69	4.61	7.07	11.68	7.43	0.20	0.00	0.00	0.00	0.00	28.2	0	67.0	202.5	1.63	
20:00	30.86	32.80	2.96	4.59	7.04	11.63	7.37	0.02	0.00	0.00	0.00	0.00	27.0	0	66.9	0	0.00	
21:00	32.56	32.79	2.82	4.59	7.04	11.63	7.44	0.02	0.00	0.00	0.00	0.00	27.2	0	62.1	135	1.35	
22:00	31.01	32.98	2.69	4.62	7.08	11.69	7.61	0.02	0.00	0.00	0.00	0.00	27.2	0	56.5	202.5	0.12	
23:00	28.64	33.12	2.75	4.64	7.11	11.74	7.76	0.02	0.00	0.00	0.00	0.00	26.5	0	55.5	0	0.00	
00:00	27.16	33.02	2.86	4.62	7.09	11.71	7.79	0.02	0.00	0.00	0.00	0.00	25.4	0	56.3	0	0.00	
Mean	23.43	32.98	2.81	4.62	7.08	11.69	7.44	0.07	0.00	0.00	0.00	0.00	25.87	0.0	56.3	129.4	4.5	
Min	8.95	32.79	2.62	4.59	7.04	11.63	7.03	0.02	0.00	0.00	0.00	0.00	21.60	0.00	48.5	0.0	0.0	
Max	32.56	33.27	2.98	4.66	7.14	11.80	7.79	0.41	0.00	0.00	0.00	0.00	29.23	0.0	67.0	202.5	25.2	

Metalli - Giornaliero	
Nichel	0.017
Arsenico	<0.001
Cadmio	<0.001
Piombo	0.004



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 12 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	24.31	33.05	2.79	4.61	7.07	11.68	7.74	0.02	0.00	0.00	0.00	0.00	25.5	0	53.3	0	0.00	<0.1
02:00	16.17	32.98	2.70	4.60	7.06	11.66	7.73	0.02	0.00	0.00	0.00	0.00	25.0	0	53.4	0	0.00	<0.1
03:00	9.25	32.93	2.61	4.60	7.05	11.64	7.64	0.02	0.00	0.00	0.00	0.00	23.3	0	57.3	112.5	0.99	<0.001
04:00	8.44	33.19	2.67	4.63	7.10	11.73	7.61	0.02	0.00	0.00	0.00	0.00	22.7	0	59.1	135	0.75	<0.001
05:00	10.84	33.15	2.74	4.63	7.09	11.72	7.59	0.02	0.00	0.00	0.00	0.00	22.6	0	58.5	135	0.53	<0.001
06:00	5.99	32.94	2.67	4.60	7.05	11.64	7.65	0.02	0.00	0.00	0.00	0.00	24.2	0	54.8	202.5	0.91	<0.001
07:00	13.32	33.10	2.78	4.62	7.08	11.70	7.73	0.02	0.00	0.00	0.00	0.00	23.9	0	66.5	0	0.00	<0.001
08:00	13.69	33.01	2.77	4.61	7.06	11.67	7.74	0.02	0.00	0.00	0.00	0.00	26.2	0	62.0	0	0.00	<0.001
09:00	14.17	33.11	2.77	4.62	7.08	11.71	7.63	0.02	0.00	0.00	0.00	0.00	29.0	0	48.6	180	3.23	<0.001
10:00	9.99	33.26	2.92	4.64	7.12	11.76	7.59	0.02	0.00	0.00	0.00	0.00	30.8	0	50.7	112.5	5.18	<0.001
11:00	23.27	33.25	2.78	4.64	7.11	11.75	7.58	0.10	0.00	0.00	0.00	0.00	32.0	0	56.3	0	0.00	<0.001
12:00	27.64	33.12	2.71	4.62	7.09	11.73	7.56	0.31	0.00	0.00	0.00	0.00	33.4	0	59.1	0	0.00	<0.001
13:00	29.27	33.17	2.80	4.63	7.10	11.73	7.51	0.02	0.00	0.00	0.00	0.00	33.8	0	51.1	0	0.00	<0.001
14:00	28.71	33.07	2.84	4.62	7.07	11.69	7.55	0.02	0.00	0.00	0.00	0.00	33.4	0	52.4	135	19.55	<0.001
15:00	29.34	33.31	3.17	4.65	7.13	11.78	7.74	0.02	0.00	0.00	0.00	0.00	32.5	0	55.6	112.5	7.99	<0.001
16:00	29.05	33.14	2.82	4.63	7.09	11.72	7.81	0.02	0.00	0.00	0.00	0.00	32.1	0	57.2	135	7.32	<0.001
17:00	30.71	33.22	2.74	4.64	7.11	11.74	7.85	0.02	0.00	0.00	0.00	0.00	31.7	0	57.6	0	0.00	<0.001
18:00	31.08	33.16	2.91	4.63	7.10	11.72	7.88	0.02	0.00	0.00	0.00	0.00	31.2	0	58.3	112.5	8.71	<0.001
19:00	31.27	33.20	2.88	4.63	7.10	11.74	7.90	0.04	0.00	0.00	0.00	0.00	31.1	0	40.7	135	8.47	<0.001
20:00	29.23	32.93	2.78	4.60	7.05	11.64	7.86	0.02	0.00	0.00	0.00	0.00	28.8	0	45.9	157.5	4.37	<0.001
21:00	26.90	33.11	2.75	4.62	7.08	11.70	7.79	0.02	0.00	0.00	0.00	0.00	27.1	0	50.2	135	3.75	<0.001
22:00	31.71	33.35	2.82	4.66	7.14	11.79	7.75	0.02	0.00	0.00	0.00	0.00	26.0	0	50.4	0	0.00	<0.001
23:00	28.56	33.10	2.64	4.62	7.08	11.70	7.81	0.31	0.00	0.00	0.00	0.00	25.4	0	49.3	112.5	18.74	<0.001
00:00	23.83	33.20	2.62	4.63	7.10	11.74	7.83	0.20	0.00	0.00	0.00	0.00	25.3	0	49.8	0	0.00	<0.001
Mean	21.95	33.13	2.78	4.62	7.09	11.71	7.71	0.06	0.00	0.00	0.00	0.00	28.21	0.0	54.1	79.7	3.8	<0.001
Min	5.99	32.93	2.61	4.60	7.05	11.64	7.51	0.02	0.00	0.00	0.00	0.00	22.61	0.00	40.7	0.0	0.0	<0.001
Max	31.71	33.35	3.17	4.66	7.14	11.79	7.90	0.31	0.00	0.00	0.00	0.00	33.81	0.0	66.5	202.5	19.6	<0.001

Stampa circolare del Laboratorio Chimico Troisi, Ordine N. 1714. Firmato da Dott. Francesco Troisi, Responsabile del Laboratorio.



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 13 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	22.42	34.27	2.77	4.64	7.11	11.75	7.92	0.10	0.00	0.00	0.00	0.00	24.7	0	54.2	202.5	5.39	<0.1
02:00	23.27	34.34	2.77	4.65	7.12	11.77	7.81	0.02	0.00	0.00	0.00	0.00	24.6	0	51.5	180	3.66	
03:00	22.98	34.01	2.70	4.60	7.06	11.66	7.84	0.02	0.00	0.00	0.00	0.00	24.1	0	56.2	157.5	4.10	
04:00	22.53	34.20	2.67	4.63	7.10	11.72	7.82	0.02	0.00	0.00	0.00	0.00	23.7	0	59.0	202.5	3.10	
05:00	19.98	34.23	2.87	4.63	7.10	11.73	7.76	0.02	0.00	0.00	0.00	0.00	23.5	0	60.4	0	0.00	
06:00	15.91	34.03	2.65	4.61	7.06	11.67	7.87	0.02	0.00	0.00	0.00	0.00	23.2	0	57.1	180	27.97	0.002
07:00	10.80	34.31	2.75	4.64	7.12	11.76	7.92	0.02	0.00	0.00	0.00	0.00	23.3	0	63.9	157.5	3.87	<0.001
08:00	15.69	34.29	2.79	4.64	7.11	11.76	7.98	0.02	0.00	0.00	0.00	0.00	23.8	0	62.1	180	3.70	<0.001
09:00	17.69	34.34	3.00	4.65	7.12	11.77	8.00	0.02	0.00	0.00	0.00	0.00	25.1	0	55.4	112.5	5.56	0.003
10:00	21.68	34.21	2.82	4.63	7.10	11.73	7.90	1.12	0.00	0.00	0.00	0.00	26.4	0	46.2	112.5	6.77	
11:00	26.68	34.21	2.92	4.63	7.10	11.73	7.80	1.12	0.00	0.00	0.00	0.00	27.1	0	40.2	0	0.00	
12:00	28.97	34.21	3.09	4.63	7.10	11.73	7.81	1.23	0.00	0.00	0.00	0.00	27.6	0	37.7	112.5	7.00	
13:00	30.38	34.36	2.88	4.65	7.13	11.78	7.78	0.02	0.00	0.00	0.00	0.00	27.7	0	35.9	112.5	7.25	
14:00	31.71	34.30	2.78	4.64	7.12	11.76	7.83	0.02	0.00	0.00	0.00	0.00	28.1	0	35.8	0	0.00	
15:00	32.23	34.37	2.68	4.65	7.13	11.78	7.87	0.02	0.00	0.00	0.00	0.00	28.2	0	35.9	135	10.23	
16:00	31.86	34.34	2.65	4.65	7.12	11.77	7.92	0.02	0.00	0.00	0.00	0.00	28.1	0	39.5	135	6.88	
17:00	32.08	34.20	2.69	4.63	7.10	11.72	7.99	0.61	0.00	0.00	0.00	0.00	27.6	0	40.4	0	0.00	
18:00	30.97	34.18	2.72	4.63	7.09	11.72	7.95	0.02	0.00	0.00	0.00	0.00	26.8	0	39.5	0	0.00	
19:00	30.12	34.27	2.61	4.64	7.11	11.75	7.91	0.02	0.00	0.00	0.00	0.00	26.3	0	39.3	0	0.00	
20:00	29.64	34.25	2.63	4.64	7.11	11.74	7.87	0.02	0.00	0.00	0.00	0.00	25.5	0	39.7	135	6.97	
21:00	30.56	34.32	3.07	4.65	7.12	11.77	7.96	0.02	0.00	0.00	0.00	0.00	24.4	0	41.1	157.5	3.08	
22:00	30.12	34.23	2.62	4.63	7.10	11.74	7.64	0.02	0.00	0.00	0.00	0.00	23.3	0	46.3	135	2.36	
23:00	27.49	34.46	2.56	4.66	7.15	11.81	7.64	0.02	0.00	0.00	0.00	0.00	22.5	0	53.4	135	2.89	
00:00	26.97	34.23	2.51	4.63	7.10	11.74	7.73	0.02	0.00	0.00	0.00	0.00	22.0	0	61.0	157.5	3.39	
Mean	25.53	34.26	2.76	4.64	7.11	11.74	7.86	0.19	0.00	0.00	0.00	0.00	25.32	0.0	48.0	112.5	4.8	
Min	10.80	34.01	2.51	4.60	7.06	11.66	7.64	0.02	0.00	0.00	0.00	0.00	22.05	0.00	35.8	0.0	0.0	
Max	32.23	34.46	3.09	4.66	7.15	11.81	8.00	1.23	0.00	0.00	0.00	0.00	28.17	0.0	63.9	202.5	28.0	

Il Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 14 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	27.08	34.33	2.53	4.65	7.12	11.77	7.81	0.02	0.00	0.00	0.00	0.00	21.6	0	64.7	135	3.41	<0.1
02:00	28.56	34.11	2.61	4.62	7.08	11.69	7.83	0.02	0.00	0.00	0.00	0.00	21.5	0	62.8	135	3.55	<0.1
03:00	28.49	34.29	2.87	4.64	7.11	11.75	7.84	0.02	0.00	0.00	0.00	0.00	21.4	0	59.7	202.5	3.55	<0.1
04:00	28.49	34.20	2.76	4.63	7.10	11.73	7.84	0.13	0.00	0.00	0.00	0.00	21.0	0	57.2	0	0.00	<0.1
05:00	28.23	34.49	2.66	4.67	7.16	11.82	7.63	0.20	0.00	0.00	0.00	0.00	20.2	0	57.5	225	2.99	<0.1
06:00	28.53	34.16	2.65	4.62	7.09	11.71	7.63	0.02	0.00	0.00	0.00	0.00	19.8	0	62.7	225	1.01	<0.001
07:00	26.64	34.25	2.53	4.64	7.11	11.74	7.67	0.02	0.00	0.00	0.00	0.00	20.8	0	62.2	0	0.00	<0.001
08:00	25.53	34.50	2.66	4.67	7.16	11.83	7.87	0.02	0.00	0.00	0.00	0.00	22.1	0	62.0	225	2.22	<0.001
09:00	26.09	34.25	2.67	4.64	7.11	11.74	7.93	0.02	0.00	0.00	0.00	0.00	23.7	0	59.8	202.5	2.30	<0.001
10:00	27.45	33.87	2.89	4.58	7.03	11.61	7.85	0.02	0.00	0.00	0.00	0.00	25.9	0	51.1	180	5.25	<0.001
11:00	27.97	34.26	2.70	4.64	7.11	11.75	7.87	0.02	0.00	0.00	0.00	0.00	26.2	0	55.4	180	2.88	<0.001
12:00	29.34	34.11	2.73	4.62	7.08	11.69	7.86	0.02	0.00	0.00	0.00	0.00	26.1	0	57.7	180	2.72	<0.001
13:00	29.60	34.14	2.64	4.62	7.16	11.83	7.70	0.02	0.00	0.00	0.00	0.00	26.4	0	58.9	180	3.43	<0.001
14:00	29.42	34.50	2.73	4.67	7.16	11.83	7.70	0.02	0.00	0.00	0.00	0.00	26.7	0	62.9	180	3.81	<0.001
15:00	29.30	34.17	2.91	4.62	7.09	11.71	7.66	0.02	0.00	0.00	0.00	0.00	26.6	0	62.6	180	4.48	<0.001
16:00	26.79	34.28	2.72	4.64	7.11	11.75	7.74	0.02	0.00	0.00	0.00	0.00	27.2	0	55.9	157.5	3.28	<0.001
17:00	28.79	34.25	2.83	4.64	7.11	11.74	7.79	0.02	0.00	0.00	0.00	0.00	27.0	0	56.9	135	4.27	<0.001
18:00	28.75	34.13	2.62	4.62	7.08	11.70	7.80	0.02	0.00	0.00	0.00	0.00	27.0	0	53.7	157.5	3.14	<0.001
19:00	29.27	34.22	2.81	4.63	7.10	11.73	7.87	0.02	0.00	0.00	0.00	0.00	26.0	0	61.7	180	1.99	<0.001
20:00	29.86	34.43	2.81	4.66	7.14	11.80	7.86	0.02	0.00	0.00	0.00	0.00	25.6	0	58.2	225	0.60	<0.001
21:00	28.08	34.45	2.56	4.66	7.15	11.81	7.94	0.02	0.00	0.00	0.00	0.00	25.6	0	53.0	225	0.09	<0.001
22:00	29.30	34.37	2.81	4.65	7.13	11.78	8.09	0.02	0.00	0.00	0.00	0.00	25.6	0	51.9	202.5	0.21	<0.001
23:00	30.38	34.17	2.70	4.63	7.09	11.72	8.37	0.02	0.00	0.00	0.00	0.00	25.2	0	54.9	225	3.08	<0.001
00:00	29.42	34.14	2.86	4.62	7.08	11.70	8.21	0.02	0.00	0.00	0.00	0.00	24.4	0	60.7	202.5	0.87	<0.001
Mean	28.39	34.25	2.72	4.64	7.11	11.74	7.85	0.03	0.00	0.00	0.00	0.00	24.31	0.0	58.5	172.5	2.5	<0.001
Min	25.53	33.87	2.53	4.58	7.03	11.61	7.63	0.02	0.00	0.00	0.00	0.00	19.81	0.00	51.1	0.0	0.0	<0.001
Max	30.38	34.50	2.91	4.67	7.16	11.83	8.37	0.20	0.00	0.00	0.00	0.00	27.23	0.0	64.7	225.0	5.2	<0.001

LABORATORIO ANALITICO  
DOTT. FRANCESCO TROISI  
CHIMICO  
N. 1774  
ORDINE REGIONALE  
DOTT. FRANCESCO TROISI  
Il Responsabile del Laboratorio  
Dott. Francesco Troisi



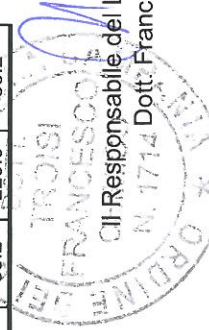
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 15 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	28.42	31.37	2.86	4.64	7.11	11.76	8.28	0.02	0.00	0.00	0.00	0.00	23.9	0	65.2	0	0.00	<0.1
02:00	26.75	30.37	2.97	4.61	7.07	11.68	8.54	0.02	0.00	0.00	0.00	0.00	23.3	0	65.8	202.5	0.90	
03:00	27.08	30.86	2.90	4.62	7.08	11.70	6.85	0.02	0.00	0.00	0.00	0.00	22.9	0	65.2	225	0.81	
04:00	25.31	30.19	3.13	4.66	7.14	11.80	6.65	0.02	0.00	0.00	0.00	0.00	22.3	0	67.4	0	0.00	
05:00	22.42	30.43	2.83	4.61	7.07	11.68	6.26	0.02	0.00	0.00	0.00	0.00	21.6	0	64.6	202.5	0.26	
06:00	18.94	29.48	2.98	4.62	7.08	11.69	6.71	0.02	0.00	0.00	0.00	0.00	21.6	0	62.1	225	0.73	
07:00	22.90	29.01	2.99	4.62	7.08	11.70	6.68	0.41	0.00	0.00	0.00	0.00	22.6	0	57.8	225	0.65	
08:00	20.72	28.50	3.54	4.66	7.14	11.80	6.36	0.41	0.00	0.00	0.00	0.00	23.9	0	63.0	225	5.97	
09:00	22.61	28.13	2.83	4.65	7.13	11.78	6.27	0.10	0.00	0.00	0.00	0.00	25.0	0	61.2	157.5	2.37	
10:00	24.35	27.79	2.99	4.62	7.08	11.70	6.23	0.02	0.00	0.00	0.00	0.00	25.2	0	63.5	0	0.00	
11:00	29.53	27.36	2.99	4.61	7.07	11.68	6.05	0.02	0.00	0.00	0.00	0.00	25.5	0	56.7	180	14.54	
12:00	31.67	27.11	2.63	4.61	7.07	11.69	5.91	0.02	0.00	0.00	0.00	0.00	25.4	0	76.3	135	12.82	
13:00	33.41	26.70	2.62	4.63	7.09	11.72	5.84	0.02	0.00	0.00	0.00	0.00	26.0	0	76.4	135	5.49	
14:00	35.41	26.37	2.39	5.99	9.19	15.18	5.85	0.02	0.00	0.00	0.00	0.00	26.1	0	76.9	135	6.54	
15:00	35.00	26.46	2.45	4.65	7.13	11.78	5.79	0.02	0.00	0.00	0.00	0.00	26.2	0	76.2	0	0.00	
16:00	32.97	26.17	2.83	4.66	7.15	11.81	5.83	0.02	0.00	0.00	0.00	0.00	26.2	0	77.9	135	6.95	
17:00	32.23	26.15	2.75	4.67	7.15	11.82	5.91	0.02	0.00	0.00	0.00	0.00	26.0	0	79.3	135	6.04	
18:00	33.78	26.00	2.78	4.65	7.12	11.77	5.92	0.02	0.00	0.00	0.00	0.00	25.6	0	79.2	135	9.82	
19:00	33.30	26.14	2.71	4.67	7.15	11.82	5.98	0.02	0.00	0.00	0.00	0.00	25.8	0	77.9	157.5	10.11	
20:00	30.49	26.28	2.88	4.68	7.18	11.86	6.13	0.02	0.00	0.00	0.00	0.00	25.4	0	80.3	135	7.34	
21:00	29.56	26.29	2.76	4.67	7.16	11.84	6.20	0.02	0.00	0.00	0.00	0.00	25.1	0	81.6	180	2.28	
22:00	31.45	26.08	2.76	4.68	7.18	11.86	6.41	0.02	0.00	0.00	0.00	0.00	25.2	0	83.2	225	33.24	
23:00	32.19	25.51	2.91	4.65	7.13	11.79	6.55	0.02	0.00	0.00	0.00	0.00	25.3	0	79.1	0	0.00	
00:00	32.41	25.46	2.66	4.66	7.14	11.80	6.55	0.02	0.00	0.00	0.00	0.00	22.1	0	72.2	157.5	6.76	
Mean	28.87	27.68	2.84	4.70	7.20	11.90	6.41	0.06	0.00	0.00	0.00	0.00	24.51	0.0	71.2	137.8	5.6	
Min	18.94	25.46	2.39	4.61	7.07	11.68	5.79	0.02	0.00	0.00	0.00	0.00	21.55	0.0	56.7	0.0	0.0	
Max	35.41	31.37	3.54	5.99	9.19	15.18	8.54	0.41	0.00	0.00	0.00	0.00	26.19	0.0	83.2	225.0	33.2	

Metalli - Giornaliero µg/m³	
Nichel	0.004
Arsenico	<0.001
Cadmio	<0.001
Piombo	0.004



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



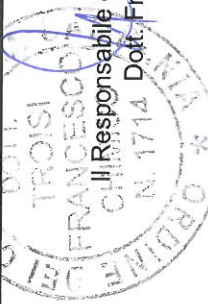
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 16 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	29.19	25.19	3.11	4.65	7.13	11.79	7.07	0.02	0.00	0.00	0.00	0.00	22.3	0	70.4	225	2.95	<0.1
02:00	29.30	27.26	3.08	4.67	7.15	11.82	6.82	0.02	0.00	0.00	0.00	0.00	22.2	0	74.1	225	2.35	<0.1
03:00	27.82	25.41	2.96	4.64	7.11	11.75	6.48	0.02	0.00	0.00	0.00	0.00	21.6	0	72.5	157.5	1.78	<0.1
04:00	27.05	25.79	2.92	4.63	7.09	11.72	6.46	0.02	0.00	0.00	0.00	0.00	21.5	0	71.0	0	0.00	<0.1
05:00	25.35	25.96	3.01	4.66	7.14	11.79	6.42	0.02	0.00	0.00	0.00	0.00	20.7	0	72.9	135	1.49	<0.1
06:00	24.27	25.95	2.66	4.61	7.07	11.69	6.45	0.02	0.00	0.00	0.00	0.00	21.0	0	75.7	180	0.57	<0.1
07:00	23.53	25.82	3.04	4.68	7.18	11.86	6.83	0.02	0.00	0.00	0.00	0.00	21.5	0	75.2	0	0.00	<0.1
08:00	22.98	25.79	2.97	4.66	7.15	11.81	6.57	0.02	0.00	0.00	0.00	0.00	23.8	0	68.0	202.5	10.19	<0.1
09:00	25.64	25.81	2.89	4.62	7.08	11.69	6.64	0.02	0.00	0.00	0.00	0.00	24.1	0	57.6	0	0.00	<0.1
10:00	28.31	25.46	2.50	4.65	7.13	11.79	6.67	0.02	0.00	0.00	0.00	0.00	25.1	0	62.6	0	0.00	<0.1
11:00	29.34	25.46	2.84	4.64	7.11	11.75	6.59	0.02	0.00	0.00	0.00	0.00	25.7	0	62.3	157.5	2.76	<0.1
12:00	31.86	26.46	2.82	4.65	7.13	11.78	6.42	0.02	0.00	0.00	0.00	0.00	26.1	0	62.8	180	2.98	<0.1
13:00	32.52	25.41	2.80	4.64	7.11	11.76	6.48	0.02	0.00	0.00	0.00	0.00	27.2	0	60.3	157.5	2.78	<0.1
14:00	33.26	25.42	3.09	4.63	7.10	11.72	6.69	0.31	0.00	0.00	0.00	0.00	27.7	0	57.1	180	3.39	<0.1
15:00	34.60	25.42	2.85	4.64	7.11	11.75	6.64	0.54	0.00	0.00	0.00	0.00	27.5	0	61.5	0	0.00	<0.1
16:00	35.22	25.57	2.94	4.62	7.08	11.71	6.59	0.41	0.00	0.00	0.00	0.00	26.8	0	63.2	0	0.00	<0.1
17:00	35.78	25.47	2.66	4.65	7.12	11.77	6.58	0.02	0.00	0.00	0.00	0.00	26.7	0	57.9	0	0.00	<0.1
18:00	36.37	25.53	2.85	4.66	7.14	11.81	6.40	0.02	0.00	0.00	0.00	0.00	24.5	0	66.3	0	0.00	<0.1
19:00	35.82	25.60	2.86	4.64	7.11	11.74	6.47	0.02	0.00	0.00	0.00	0.00	24.0	0	71.8	180	1.92	<0.1
20:00	32.01	25.58	3.02	4.67	7.16	11.83	6.62	0.02	0.00	0.00	0.00	0.00	24.3	0	76.0	157.5	1.49	<0.1
21:00	31.52	25.44	2.72	4.65	7.12	11.77	6.59	0.02	0.00	0.00	0.00	0.00	24.3	0	76.2	135	2.18	<0.1
22:00	32.26	25.44	2.90	4.65	7.13	11.77	6.59	0.10	0.00	0.00	0.00	0.00	24.3	0	73.9	180	0.71	<0.1
23:00	33.34	25.64	2.55	4.62	7.09	11.71	6.62	0.02	0.00	0.00	0.00	0.00	23.7	0	76.7	0	0.00	<0.1
00:00	33.34	25.54	2.83	4.65	7.13	11.78	6.92	0.10	0.00	0.00	0.00	0.00	22.6	0	80.6	0	0.00	<0.1
Mean	30.44	25.68	2.87	4.65	7.12	11.77	6.61	0.08	0.00	0.00	0.00	0.00	24.13	0.0	68.6	102.2	1.6	<0.1
Min	22.98	25.19	2.50	4.61	7.07	11.69	6.40	0.02	0.00	0.00	0.00	0.00	20.71	0.00	57.1	0.0	0.0	<0.1
Max	36.37	27.26	3.11	4.68	7.18	11.86	7.07	0.54	0.00	0.00	0.00	0.00	27.67	0.0	80.6	225.0	10.2	<0.1

Metalli - Giornaliero µg/m³	
Nichel	0.004
Arsenico	<0.001
Cadmio	<0.001
Piombo	0.003







Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

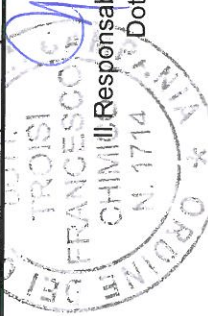
**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 17 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	32.52	23.02	2.83	4.64	7.11	11.74	6.74	0.02	0.00	0.00	0.00	0.00	22.9	0	76.8	202.5	0.41	<0.1
02:00	32.38	23.04	2.85	4.65	7.13	11.78	7.02	0.02	0.00	0.00	0.00	0.00	23.2	0	72.8	202.5	0.74	<0.1
03:00	32.15	22.94	2.71	4.67	7.15	11.82	7.00	0.02	0.00	0.00	0.00	0.00	23.2	0	71.9	225	0.55	<0.1
04:00	30.82	22.99	2.83	4.66	7.14	11.80	6.92	0.20	0.00	0.00	0.00	0.00	22.7	0	72.4	202.5	0.24	<0.1
05:00	29.16	23.19	3.05	4.65	7.13	11.78	6.84	0.20	0.00	0.00	0.00	0.00	23.3	0	76.0	157.5	1.05	<0.1
06:00	26.49	23.20	2.74	4.66	7.15	11.81	6.77	0.10	0.00	0.00	0.00	0.00	21.8	0	80.0	0	0.00	<0.001
07:00	25.90	23.21	2.89	4.63	7.09	11.72	6.80	0.02	0.00	0.00	0.00	0.00	21.9	0	78.0	112.5	1.39	<0.001
08:00	25.79	23.17	2.63	4.64	7.11	11.74	6.79	0.02	0.00	0.00	0.00	0.00	23.5	0	70.6	135	0.66	<0.001
09:00	25.75	23.16	2.99	4.68	7.18	11.87	6.83	0.02	0.00	0.00	0.00	0.00	25.8	0	62.1	0	0.00	<0.001
10:00	29.08	23.31	2.80	4.64	7.11	11.74	6.91	0.02	0.00	0.00	0.00	0.00	25.4	0	65.0	157.5	4.79	<0.001
11:00	31.27	23.30	2.86	4.65	7.13	11.79	6.76	0.02	0.00	0.00	0.00	0.00	26.1	0	63.2	157.5	2.50	<0.001
12:00	33.08	23.34	2.73	4.64	7.10	11.74	6.68	0.02	0.00	0.00	0.00	0.00	26.8	0	59.8	0	0.00	<0.001
13:00	32.38	23.32	2.82	4.63	7.10	11.73	6.63	0.02	0.00	0.00	0.00	0.00	27.0	0	58.1	180	3.38	<0.001
14:00	31.67	23.24	2.85	4.62	7.08	11.70	6.58	0.02	0.00	0.00	0.00	0.00	27.1	0	59.4	180	3.46	<0.001
15:00	32.86	23.34	2.77	4.67	7.15	11.82	6.53	0.02	0.00	0.00	0.00	0.00	27.7	0	56.1	180	3.36	<0.001
16:00	34.04	23.36	2.77	4.66	7.14	11.80	6.52	0.20	0.00	0.00	0.00	0.00	27.6	0	59.1	180	3.54	<0.001
17:00	33.04	23.25	2.78	4.64	7.12	11.76	6.52	0.41	0.00	0.00	0.00	0.00	27.1	0	68.3	180	2.99	<0.001
18:00	32.49	23.40	2.61	4.62	7.09	11.71	6.59	0.02	0.00	0.00	0.00	0.00	27.0	0	62.5	180	2.44	<0.001
19:00	31.64	23.28	2.42	4.66	7.14	11.81	6.57	0.02	0.00	0.00	0.00	0.00	26.1	0	56.5	135	3.26	<0.001
20:00	28.34	23.25	2.76	4.67	7.16	11.84	6.65	0.02	0.00	0.00	0.00	0.00	24.3	0	70.3	135	4.63	<0.001
21:00	26.31	23.27	2.74	4.63	7.10	11.73	6.80	0.02	0.00	0.00	0.00	0.00	23.4	0	74.2	0	0.00	<0.001
22:00	24.98	22.96	2.64	4.65	7.12	11.77	6.88	0.02	0.00	0.00	0.00	0.00	22.8	0	73.5	0	0.00	<0.001
23:00	23.72	22.96	2.78	4.62	7.08	11.70	6.83	0.02	0.02	0.00	0.00	0.00	22.1	0	72.6	135	2.56	<0.001
00:00	24.61	23.85	3.08	4.66	7.15	11.81	6.78	0.02	0.01	0.00	0.00	0.00	22.0	0	75.3	180	1.52	<0.001
Mean	29.60	23.22	2.79	4.65	7.12	11.77	6.75	0.06	0.00	0.00	0.00	0.00	24.62	0.0	68.1	134.1	1.8	<0.001
Min	23.72	22.94	2.42	4.62	7.08	11.70	6.52	0.02	0.00	0.00	0.00	0.00	21.76	0.00	56.1	0.0	0.0	<0.001
Max	34.04	23.85	3.08	4.68	7.18	11.87	7.02	0.41	0.02	0.00	0.00	0.00	27.70	0.00	80.0	225.0	4.8	<0.001

Benzo(a)pirene	ng/m³	<0.1
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Metalli - Giornaliero		µg/m³
Nichel		0.004
Arsenico		<0.001
Cadmio		<0.001
Piombo		0.002



Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 18 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s
01:00	26.20	22.91	3.12	4.61	7.07	11.68	6.76	0.02	0.01	0.00	0.00	0.00	21.8	0	75.3	135	1.76
02:00	25.38	22.92	2.88	4.65	7.13	11.78	6.78	0.02	0.00	0.00	0.00	0.00	21.7	0	77.0	157.5	1.71
03:00	25.31	22.92	3.08	4.66	7.14	11.81	6.79	0.02	0.00	0.00	0.00	0.00	21.7	0	77.7	0	0.00
04:00	25.09	23.06	2.80	4.63	7.10	11.74	6.79	0.02	0.00	0.00	0.00	0.00	21.5	0	76.1	180	3.13
05:00	26.12	22.97	2.56	4.66	7.14	11.79	6.77	0.02	0.00	0.00	0.00	0.00	21.1	0	77.6	225	2.71
06:00	26.12	23.02	2.78	4.65	7.13	11.78	6.79	0.02	0.00	0.00	0.00	0.00	20.7	0	79.0	180	3.05
07:00	25.09	23.08	2.77	4.66	7.15	11.81	6.80	0.02	0.00	0.00	0.00	0.00	20.9	0	74.9	0	0.00
08:00	24.61	23.06	2.95	4.68	7.17	11.85	6.83	0.02	0.00	0.00	0.00	0.00	21.6	0	69.3	202.5	3.32
09:00	24.20	22.94	2.98	4.66	7.14	11.79	6.90	0.02	0.00	0.00	0.00	0.00	23.1	0	67.2	0	0.00
10:00	23.90	23.12	2.83	4.66	7.14	11.79	6.88	0.02	0.00	0.00	0.00	0.00	24.4	0	57.9	180	2.85
11:00	26.53	23.03	2.85	4.62	7.09	11.71	6.84	0.02	0.00	0.00	0.00	0.00	25.2	0	55.5	0	0.00
12:00	29.49	23.02	2.79	4.62	7.09	11.71	6.76	0.02	0.00	0.00	0.00	0.00	26.5	0	49.7	202.5	2.53
13:00	30.60	23.31	2.97	4.67	7.16	11.82	6.58	0.02	0.00	0.00	0.00	0.00	26.8	0	50.9	0	0.00
14:00	33.97	23.05	2.85	4.71	7.23	11.94	6.36	0.02	0.00	0.00	0.00	0.00	28.1	0	49.5	180	27.76
15:00	34.82	23.03	2.75	4.65	7.13	11.78	6.31	0.02	0.00	0.00	0.00	0.00	28.5	0	36.9	0	0.00
16:00	34.60	22.91	2.67	4.67	7.16	11.82	6.35	0.02	0.00	0.00	0.00	0.00	28.4	0	40.2	157.5	5.45
17:00	32.97	23.03	2.84	4.70	7.20	11.89	6.35	0.02	0.00	0.00	0.00	0.00	28.0	0	39.8	135	6.21
18:00	32.97	20.71	2.63	4.67	7.17	11.84	6.31	0.61	0.00	0.00	0.00	0.00	27.3	0	39.0	135	4.58
19:00	31.49	22.45	2.88	4.67	7.16	11.84	6.33	0.10	0.00	0.00	0.00	0.00	26.8	0	39.4	135	5.13
20:00	25.68	20.97	2.87	4.67	7.15	11.82	6.37	0.02	0.00	0.00	0.00	0.00	23.8	0	34.5	135	3.82
21:00	22.57	20.94	2.84	4.64	7.12	11.76	6.40	0.02	0.00	0.00	0.00	0.00	24.4	0	43.7	157.5	2.51
22:00	17.02	20.88	2.80	4.67	7.16	11.83	6.44	0.02	0.00	0.00	0.00	0.00	23.7	0	50.3	112.5	2.87
23:00	20.20	20.94	2.93	4.65	7.13	11.79	6.48	0.02	0.00	0.00	0.00	0.00	22.9	0	57.4	135	2.67
00:00	11.80	21.18	2.79	4.69	7.19	11.87	6.51	0.02	0.00	0.00	0.00	0.00	22.8	0	60.7	112.5	6.53
Mean	26.53	22.48	2.84	4.66	7.14	11.80	6.60	0.05	0.00	0.00	0.00	0.00	24.24	0.0	57.5	119.1	3.7
Min	11.80	20.71	2.56	4.61	7.07	11.68	6.31	0.02	0.00	0.00	0.00	0.00	20.69	0.00	34.5	0.0	0.0
Max	34.82	23.31	3.12	4.71	7.23	11.94	6.90	0.61	0.01	0.00	0.00	0.00	28.47	0.0	79.0	225.0	27.8

Benzo(a)pirene ng/m³	<0.1
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Metalli - Giornaliero µg/m³	
Nichel	0.003
Arsenico	<0.001
Cadmio	<0.001
Piombo	0.002



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



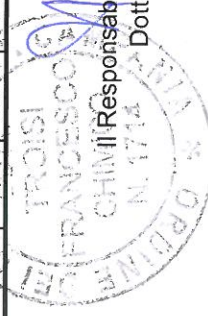
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 19 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	12.21	21.27	2.97	4.66	7.14	11.79	6.53	0.02	0.00	0.00	0.00	0.00	22.4	0	63.5	135	4.70	<0.1
02:00	11.88	21.63	2.73	4.67	7.16	11.83	6.60	0.02	0.00	0.00	0.00	0.00	21.5	0	68.3	0	0.00	<0.1
03:00	11.40	21.82	2.91	4.65	7.12	11.77	6.60	0.02	0.00	0.00	0.00	0.00	21.1	0	68.7	112.5	4.64	<0.1
04:00	15.95	21.56	2.88	4.69	7.19	11.88	6.57	0.41	0.00	0.00	0.00	0.00	20.9	0	64.8	157.5	2.60	<0.1
05:00	15.54	21.68	2.53	4.66	7.14	11.80	6.55	0.31	0.00	0.00	0.00	0.00	20.6	0	65.8	202.5	2.04	<0.1
06:00	15.50	22.80	2.85	4.69	7.18	11.87	6.55	0.20	0.00	0.00	0.00	0.00	20.7	0	65.2	0	0.00	<0.1
07:00	5.48	22.60	2.88	4.66	7.14	11.80	6.54	0.02	0.00	0.00	0.00	0.00	20.7	0	64.6	225	2.39	<0.1
08:00	5.59	22.51	2.78	4.66	7.14	11.79	6.56	0.02	0.00	0.00	0.00	0.00	21.2	0	63.6	225	6.07	<0.1
09:00	18.09	22.48	2.92	4.67	7.16	11.83	6.61	0.02	0.00	0.00	0.00	0.00	22.2	0	57.4	0	0.00	<0.1
10:00	25.12	22.48	2.49	4.68	7.18	11.86	6.62	0.02	0.00	0.00	0.00	0.00	23.9	0	45.2	180	23.32	<0.1
11:00	29.16	22.49	2.73	4.69	7.19	11.89	6.55	0.02	0.00	0.00	0.00	0.00	25.4	0	34.2	180	27.74	<0.1
12:00	32.04	25.92	2.77	4.66	7.15	11.81	6.52	0.02	0.00	0.00	0.00	0.00	26.2	0	45.8	0	0.00	<0.1
13:00	32.67	22.58	2.70	4.68	7.17	11.85	6.61	0.02	0.00	0.00	0.00	0.00	26.3	0	51.0	180	3.52	<0.1
14:00	33.23	22.58	2.77	4.67	7.15	11.82	6.65	0.71	0.00	0.00	0.00	0.00	26.1	0	58.0	180	3.90	<0.1
15:00	34.41	22.64	2.67	4.66	7.14	11.81	6.65	0.51	0.00	0.00	0.00	0.00	26.7	0	50.3	180	3.21	<0.1
16:00	35.19	22.57	2.68	4.68	7.17	11.86	6.69	0.02	0.00	0.00	0.00	0.00	26.7	0	52.7	180	2.64	<0.1
17:00	34.08	22.72	2.84	4.67	7.15	11.82	6.71	0.02	0.00	0.00	0.00	0.00	26.4	0	54.9	0	0.00	<0.1
18:00	34.48	22.58	2.74	4.66	7.15	11.81	6.59	0.02	0.00	0.00	0.00	0.00	26.8	0	47.1	0	0.00	<0.1
19:00	34.15	22.56	2.63	4.64	7.12	11.76	6.57	0.02	0.00	0.00	0.00	0.00	26.4	0	45.6	157.5	7.14	<0.1
20:00	33.89	22.47	2.90	4.69	7.18	11.87	6.61	0.02	0.00	0.00	0.00	0.00	25.6	0	48.2	157.5	13.00	<0.1
21:00	26.75	22.53	2.88	4.65	7.13	11.79	6.67	0.02	0.00	0.00	0.00	0.00	24.3	0	54.3	135	3.15	<0.1
22:00	18.87	36.78	2.66	4.67	7.16	11.83	6.71	0.02	0.00	0.00	0.00	0.00	23.2	0	58.4	0	0.00	<0.1
23:00	21.90	22.54	2.74	4.65	7.13	11.78	6.80	0.02	0.00	0.00	0.00	0.00	22.5	0	61.3	135	1.71	<0.1
00:00	18.28	22.63	2.72	4.68	7.18	11.86	6.86	0.02	0.00	0.00	0.00	0.00	21.9	0	64.4	0	0.00	<0.1
Mean	23.16	23.10	2.77	4.67	7.16	11.82	6.62	0.11	0.00	0.00	0.00	0.00	23.73	0.0	56.4	113.4	4.7	<0.1
Min	5.48	21.27	2.49	4.64	7.12	11.76	6.52	0.02	0.00	0.00	0.00	0.00	20.56	0.00	34.2	0.0	0.0	<0.1
Max	35.19	36.78	2.97	4.69	7.19	11.89	6.86	0.71	0.00	0.00	0.00	0.00	26.75	0.0	68.7	225.0	27.7	<0.1

Metalli - Giornaliero µg/m³	
Nichel	0.003
Arsenico	<0.001
Cadmio	<0.001
Piombo	0.002



Il Responsabile del Laboratorio  
Dott. Francesco Troisi

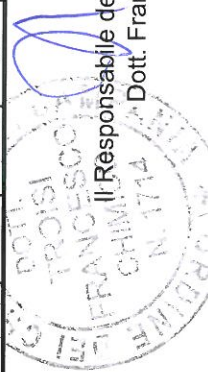


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 20 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	URE %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	5.62	22.77	2.90	4.71	7.22	11.92	6.76	0.02	0.00	0.00	0.00	0.00	20.7	0	69.4	0	0.00	<0.1
02:00	6.07	23.04	2.71	4.67	7.16	11.83	6.77	0.02	0.00	0.00	0.00	0.00	19.5	0	73.7	112.5	1.97	
03:00	9.03	22.92	2.49	4.68	7.17	11.85	6.76	0.02	0.00	0.00	0.00	0.00	18.4	0	76.9	112.5	2.07	
04:00	8.99	26.53	2.49	4.70	7.20	11.90	6.74	0.02	0.00	0.00	0.00	0.00	17.6	0	79.2	112.5	2.01	
05:00	3.92	26.33	2.69	4.69	7.19	11.88	6.75	0.02	0.00	0.00	0.00	0.00	17.4	0	79.5	112.5	1.30	
06:00	4.70	26.20	2.68	4.69	7.18	11.87	6.74	0.31	0.00	0.00	0.00	0.00	17.3	0	78.1	0	0.00	0.003
07:00	4.14	26.28	2.81	4.68	7.19	11.86	6.77	0.10	0.00	0.00	0.00	0.00	19.5	0	69.8	157.5	2.61	<0.001
08:00	5.51	26.12	2.66	4.69	7.19	11.88	6.86	0.02	0.00	0.00	0.00	0.00	20.9	0	68.7	0	0.00	<0.001
09:00	9.84	26.14	2.61	4.70	7.20	11.90	6.88	0.02	0.00	0.00	0.00	0.00	22.8	0	63.5	0	0.00	0.003
10:00	13.80	26.08	2.74	4.69	7.19	11.88	6.97	0.02	0.00	0.00	0.00	0.00	24.3	0	62.4	202.5	2.31	
11:00	21.24	26.28	2.57	4.68	7.17	11.84	6.93	0.02	0.00	0.00	0.00	0.00	25.1	0	63.2	180	3.98	
12:00	31.56	26.29	2.73	4.67	7.16	11.83	6.89	0.02	0.00	0.00	0.00	0.00	26.3	0	57.6	180	3.19	
13:00	35.11	26.31	2.63	4.70	7.21	11.91	6.69	0.02	0.00	0.00	0.00	0.00	28.5	0	37.6	0	0.00	
14:00	35.30	26.25	2.79	4.69	7.18	11.87	6.70	0.02	0.00	0.00	0.00	0.00	29.0	0	41.3	202.5	3.35	
15:00	36.00	26.19	2.64	4.69	7.19	11.89	6.62	0.02	0.00	0.00	0.00	0.00	29.7	0	37.1	0	0.00	
16:00	35.82	26.22	2.82	4.68	7.18	11.86	6.66	0.02	0.00	0.00	0.00	0.00	30.0	0	36.0	0	0.00	
17:00	35.71	26.22	2.86	4.68	7.18	11.86	6.60	0.02	0.00	0.00	0.00	0.00	30.4	0	32.2	157.5	4.16	
18:00	35.19	26.35	3.08	4.66	7.15	11.81	6.59	0.02	0.00	0.00	0.00	0.00	30.3	0	31.9	0	0.00	
19:00	33.45	26.28	2.65	4.67	7.17	11.84	6.58	0.02	0.00	0.00	0.00	0.00	29.7	0	32.8	157.5	3.40	
20:00	35.78	26.33	2.73	4.67	7.16	11.83	6.60	0.02	0.00	0.00	0.00	0.00	29.1	0	32.7	135	2.84	
21:00	32.89	26.39	2.62	4.67	7.16	11.82	6.63	0.02	0.00	0.00	0.00	0.00	27.7	0	35.9	0	0.00	
22:00	25.72	26.21	2.89	4.69	7.18	11.87	6.66	0.02	0.00	0.00	0.00	0.00	26.3	0	40.0	135	2.49	
23:00	23.38	26.34	2.83	4.70	7.20	11.90	6.77	0.02	0.00	0.00	0.00	0.00	25.2	0	45.5	157.5	2.08	
00:00	23.72	29.42	2.73	4.67	7.16	11.83	6.81	0.02	0.00	0.00	0.00	0.00	24.4	0	49.6	180	0.81	
Mean	21.35	25.98	2.72	4.68	7.18	11.86	6.74	0.04	0.00	0.00	0.00	0.00	24.59	0.0	53.9	95.6	1.6	
Min	3.92	22.77	2.49	4.66	7.15	11.81	6.58	0.02	0.00	0.00	0.00	0.00	17.27	0.0	31.9	0.0	0.0	
Max	36.00	29.42	3.08	4.71	7.22	11.92	6.97	0.31	0.00	0.00	0.00	0.00	30.42	0.0	79.5	202.5	4.2	



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 21 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	19.39	29.27	2.63	4.69	7.19	11.88	6.91	0.02	0.00	0.00	0.00	0.00	23.3	0	55.1	112.5	1.16	<0.1
02:00	18.32	29.38	2.82	4.69	7.19	11.87	6.92	0.02	0.00	0.00	0.00	0.00	22.6	0	57.7	0	0.00	<0.1
03:00	5.55	29.46	2.80	4.67	7.16	11.83	6.87	0.02	0.00	0.00	0.00	0.00	21.7	0	58.1	0	0.00	<0.1
04:00	3.59	29.63	2.79	4.67	7.16	11.83	6.85	0.02	0.00	0.00	0.00	0.00	21.0	0	60.0	112.5	2.94	<0.1
05:00	3.29	29.43	2.63	4.66	7.14	11.80	6.86	0.02	0.00	0.00	0.00	0.00	20.2	0	62.3	112.5	2.28	<0.1
06:00	4.07	29.45	2.83	4.69	7.18	11.87	6.86	0.02	0.00	0.00	0.00	0.00	20.2	0	63.1	135	30.43	<0.001
07:00	3.55	29.54	2.65	4.67	7.16	11.83	7.04	0.02	0.00	0.00	0.00	0.00	21.2	0	62.8	0	0.00	<0.001
08:00	2.52	29.62	2.90	4.70	7.21	11.91	7.02	0.02	0.00	0.00	0.00	0.00	23.4	0	61.1	225	2.88	<0.001
09:00	10.95	29.59	2.85	4.67	7.15	11.82	7.03	0.02	0.00	0.00	0.00	0.00	25.5	0	54.2	225	2.97	<0.001
10:00	21.79	29.54	2.94	4.70	7.21	11.91	6.88	0.02	0.00	0.00	0.00	0.00	28.9	0	40.7	0	0.00	<0.001
11:00	26.05	29.76	2.83	4.68	7.17	11.84	6.90	0.02	0.00	0.00	0.00	0.00	30.3	0	37.9	0	0.00	<0.001
12:00	31.75	29.76	2.94	4.68	7.18	11.86	6.88	0.02	0.00	0.00	0.00	0.00	31.4	0	36.6	157.5	3.80	<0.001
13:00	33.86	29.60	2.73	4.71	7.22	11.93	6.90	0.02	0.00	0.00	0.00	0.00	32.2	0	34.2	157.5	4.17	<0.001
14:00	33.97	29.77	2.84	4.71	7.21	11.92	6.94	0.02	0.00	0.00	0.00	0.00	32.7	0	33.0	135	4.64	<0.001
15:00	36.11	29.89	2.81	4.70	7.21	11.91	6.87	0.02	0.00	0.00	0.00	0.00	32.9	0	32.4	0	0.00	<0.001
16:00	37.11	29.61	2.81	4.69	7.19	11.89	6.86	0.02	0.00	0.00	0.00	0.00	32.8	0	31.2	0	0.00	<0.001
17:00	31.45	29.42	2.65	4.69	7.20	11.89	6.86	0.02	0.00	0.00	0.00	0.00	32.7	0	31.9	112.5	5.70	<0.001
18:00	31.30	29.72	2.58	4.68	7.18	11.86	6.90	0.20	0.00	0.00	0.00	0.00	32.3	0	33.2	135	5.29	<0.001
19:00	31.19	29.78	2.52	4.68	7.17	11.85	6.88	0.41	0.00	0.00	0.00	0.00	31.8	0	33.9	135	4.79	<0.001
20:00	30.97	29.56	2.72	4.68	7.18	11.87	6.93	0.02	0.00	0.00	0.00	0.00	30.5	0	35.6	0	0.00	<0.001
21:00	29.93	29.60	2.63	4.67	7.15	11.82	6.97	0.02	0.00	0.00	0.00	0.00	28.7	0	42.3	135	3.18	<0.001
22:00	28.12	29.80	2.64	4.67	7.16	11.83	6.96	0.02	0.00	0.00	0.00	0.00	27.3	0	46.4	0	0.00	<0.001
23:00	11.73	29.67	2.70	4.71	7.23	11.94	6.99	0.02	0.00	0.00	0.00	0.00	26.4	0	48.5	135	1.77	<0.001
00:00	9.66	29.61	2.61	4.70	7.21	11.91	7.05	0.02	0.00	0.00	0.00	0.00	25.2	0	50.3	0	0.00	<0.001
Mean	20.68	29.60	2.74	4.69	7.18	11.87	6.92	0.04	0.00	0.00	0.00	0.00	27.31	0.0	45.9	84.4	3.2	<0.001
Min	2.52	29.27	2.52	4.66	7.14	11.80	6.85	0.02	0.00	0.00	0.00	0.00	20.20	0.0	31.2	0.0	0.0	<0.001
Max	37.11	29.89	2.94	4.71	7.23	11.94	7.05	0.41	0.00	0.00	0.00	0.00	32.86	0.0	63.1	225.0	30.4	<0.001

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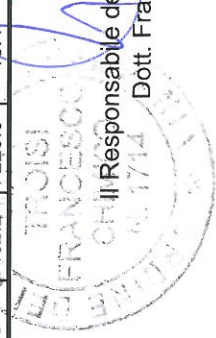


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 22 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMP E °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	10.14	29.72	2.95	4.68	7.18	11.87	6.96	0.02	0.00	0.00	0.00	0.00	25.1	0	48.0	135	2.16	<0.1
02:00	8.07	29.44	2.77	4.68	7.17	11.85	7.10	0.02	0.00	0.00	0.00	0.00	24.4	0	55.4	0	0.00	<0.1
03:00	10.03	29.63	2.92	4.73	7.25	11.97	7.14	0.02	0.00	0.00	0.00	0.00	23.6	0	59.1	202.5	2.03	<0.1
04:00	10.80	29.53	2.70	4.67	7.15	11.82	7.14	0.02	0.00	0.00	0.00	0.00	22.6	0	62.2	157.5	0.74	<0.1
05:00	3.55	29.79	2.69	4.69	7.19	11.87	7.15	0.71	0.00	0.00	0.00	0.00	22.0	0	61.6	112.5	0.85	<0.1
06:00	1.41	33.14	2.81	4.70	7.21	11.91	7.16	0.02	0.00	0.00	0.00	0.00	21.8	0	61.8	0	0.00	<0.1
07:00	4.70	36.30	2.90	4.66	7.14	11.80	7.17	0.02	0.00	0.00	0.00	0.00	22.8	0	59.3	157.5	0.89	<0.1
08:00	5.81	36.23	2.91	4.69	7.20	11.89	7.28	0.02	0.00	0.00	0.00	0.00	25.1	0	57.6	0	0.00	<0.1
09:00	16.39	36.27	2.86	4.68	7.17	11.84	7.29	0.02	0.00	0.00	0.00	0.00	27.1	0	51.7	202.5	1.78	<0.1
10:00	25.72	36.24	2.80	4.67	7.15	11.82	7.20	0.02	0.00	0.00	0.00	0.00	30.4	0	42.4	157.5	3.73	<0.1
11:00	28.53	36.41	2.56	4.68	7.18	11.86	7.21	0.02	0.00	0.00	0.00	0.00	31.7	0	40.2	157.5	3.82	<0.1
12:00	30.53	36.23	2.58	4.68	7.18	11.86	7.28	0.02	0.00	0.00	0.00	0.00	32.6	0	37.7	135	4.32	<0.1
13:00	30.53	36.28	3.01	4.70	7.21	11.92	7.32	0.02	0.00	0.00	0.00	0.00	33.5	0	33.2	135	4.33	<0.1
14:00	26.86	36.43	2.81	4.69	7.19	11.88	7.32	0.02	0.00	0.00	0.00	0.00	34.3	0	31.0	157.5	4.26	<0.1
15:00	25.83	36.53	3.07	4.67	7.15	11.82	7.21	0.02	0.00	0.00	0.00	0.00	35.0	0	28.4	135	4.60	<0.1
16:00	27.53	36.33	2.81	4.69	7.20	11.89	7.03	0.02	0.00	0.00	0.00	0.00	35.2	0	26.1	135	4.60	<0.1
17:00	28.42	36.35	3.02	4.69	7.19	11.87	6.98	0.02	0.00	0.00	0.00	0.00	35.1	0	25.7	0	0.00	<0.1
18:00	25.01	29.59	2.99	4.71	7.22	11.93	6.95	0.02	0.00	0.00	0.00	0.00	35.1	0	24.7	135	5.09	<0.1
19:00	22.61	29.79	2.87	4.70	7.20	11.89	6.99	0.02	0.00	0.00	0.00	0.00	34.8	0	25.0	0	0.00	<0.1
20:00	18.76	29.67	2.86	4.68	7.18	11.86	6.98	0.02	0.00	0.00	0.00	0.00	33.5	0	27.1	135	3.38	<0.1
21:00	14.54	29.57	2.71	4.69	7.18	11.87	7.02	0.02	0.00	0.00	0.00	0.00	31.5	0	30.7	112.5	2.22	<0.1
22:00	15.98	29.68	2.77	4.70	7.20	11.89	7.04	0.02	0.00	0.00	0.00	0.00	29.2	0	36.5	0	0.00	<0.1
23:00	16.32	29.82	2.72	4.69	7.19	11.88	7.06	0.02	0.00	0.00	0.00	0.00	28.3	0	40.5	157.5	2.30	<0.1
00:00	12.28	29.91	2.64	4.71	7.22	11.93	7.32	0.02	0.00	0.00	0.00	0.00	26.5	0	56.5	225	1.69	<0.1
Mean	17.51	32.87	2.82	4.69	7.19	11.88	7.14	0.05	0.00	0.00	0.00	0.00	29.21	0.0	42.6	114.4	2.4	<0.1
Min	1.41	29.44	2.56	4.66	7.14	11.80	6.95	0.02	0.00	0.00	0.00	0.00	21.78	0.0	24.7	0.0	0.0	<0.1
Max	30.53	36.53	3.07	4.73	7.25	11.97	7.32	0.71	0.00	0.00	0.00	0.00	35.21	0.0	62.2	225.0	10.4	<0.1



Il Responsabile del Laboratorio  
Dott. Francesco Troisi

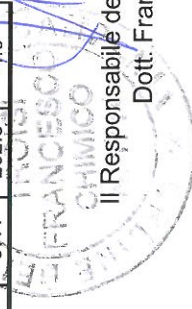


Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 23 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	18.09	29.83	2.56	4.67	7.16	11.83	7.38	0.02	0.00	0.00	0.00	0.00	25.9	0	55.0	157.5	1.21	<0.1
02:00	13.47	29.92	2.74	4.66	7.15	11.81	7.29	0.02	0.00	0.00	0.00	0.00	25.4	0	51.0	202.5	1.72	<0.1
03:00	13.62	29.91	2.97	4.70	7.20	11.90	7.29	0.02	0.00	0.00	0.00	0.00	24.9	0	51.9	112.5	1.63	<0.1
04:00	32.38	29.63	2.93	4.71	7.22	11.93	7.32	0.02	0.00	0.00	0.00	0.00	24.8	0	55.7	157.5	2.86	<0.1
05:00	31.67	33.25	2.88	4.68	7.17	11.85	7.41	0.02	0.00	0.00	0.00	0.00	22.9	0	61.8	135	1.45	<0.1
06:00	32.86	33.30	2.87	4.69	7.19	11.88	7.38	0.02	0.00	0.00	0.00	0.00	22.4	0	61.7	202.5	0.78	<0.001
07:00	34.04	33.58	2.74	4.67	7.16	11.84	7.52	0.02	0.00	0.00	0.00	0.00	22.2	0	60.0	135	1.34	<0.001
08:00	33.04	33.46	2.83	4.67	7.15	11.82	7.52	0.82	0.00	0.00	0.00	0.00	24.8	0	53.4	180	2.91	<0.001
09:00	32.49	33.68	2.93	4.68	7.18	11.86	7.59	0.51	0.00	0.00	0.00	0.00	26.0	0	59.3	0	0.00	0.006
10:00	31.64	33.48	2.72	4.64	7.11	11.75	7.48	0.02	0.00	0.00	0.00	0.00	27.5	0	63.9	180	1.90	<0.001
11:00	28.34	29.89	2.70	4.66	7.14	11.80	7.45	0.02	0.00	0.00	0.00	0.00	28.4	0	59.2	157.5	3.07	<0.001
12:00	26.31	30.08	2.76	4.67	7.16	11.82	7.43	0.02	0.00	0.00	0.00	0.00	29.7	0	50.5	157.5	2.82	<0.001
13:00	24.98	29.93	2.88	4.69	7.18	11.87	7.33	0.02	0.00	0.00	0.00	0.00	29.9	0	52.7	157.5	3.96	<0.001
14:00	23.72	29.80	2.76	4.70	7.16	11.86	7.36	0.02	0.00	0.00	0.00	0.00	30.8	0	51.0	157.5	3.02	<0.001
15:00	15.91	29.99	2.60	4.68	7.18	11.86	7.45	0.02	0.00	0.00	0.00	0.00	31.3	0	51.1	157.5	3.00	<0.001
16:00	10.80	30.27	2.77	4.69	7.22	11.90	7.43	0.02	0.00	0.00	0.00	0.00	31.0	0	54.8	157.5	2.54	<0.001
17:00	15.69	29.76	2.87	4.70	7.21	11.91	7.48	0.10	0.00	0.00	0.00	0.00	30.3	0	61.8	0	0.00	<0.001
18:00	17.69	29.85	2.81	4.67	7.18	11.86	7.46	0.02	0.00	0.00	0.00	0.00	29.4	0	67.4	180	1.46	<0.001
19:00	21.68	30.04	2.71	4.69	7.20	11.88	7.46	0.02	0.00	0.00	0.00	0.00	29.4	0	60.2	0	0.00	<0.001
20:00	26.68	30.02	2.72	4.69	7.17	11.86	7.45	0.02	0.00	0.00	0.00	0.00	30.1	0	47.3	202.5	0.17	<0.001
21:00	28.97	30.21	2.74	4.68	7.23	11.91	7.45	0.02	0.00	0.00	0.00	0.00	29.7	0	43.8	202.5	0.11	<0.001
22:00	30.38	30.02	2.70	4.67	7.19	11.86	7.52	0.02	0.00	0.00	0.00	0.00	29.5	0	42.8	0	0.00	<0.001
23:00	31.71	30.22	2.88	4.69	7.21	11.90	7.57	0.02	0.00	0.00	0.00	0.00	28.7	0	44.8	112.5	0.95	<0.001
00:00	32.23	29.98	2.58	4.69	7.19	11.88	7.54	0.02	0.00	0.00	0.00	0.00	27.6	0	47.7	135	1.34	<0.001
Mean	25.35	30.84	2.78	4.68	7.18	11.86	7.44	0.08	0.00	0.00	0.00	0.00	27.60	0.0	54.5	135.0	1.6	<0.001
Min	10.80	29.63	2.56	4.64	7.11	11.75	7.29	0.02	0.00	0.00	0.00	0.00	22.24	0.00	42.8	0.0	0.0	<0.001
Max	34.04	33.68	2.97	4.71	7.23	11.93	7.59	0.82	0.00	0.00	0.00	0.00	31.27	0.0	67.4	202.5	4.0	<0.001



Il Responsabile del Laboratorio  
Dott. Francesco Troisi



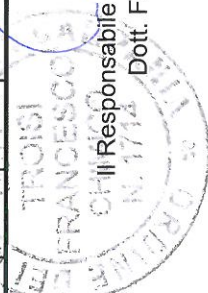
Natura Srl  
Via Rossini, 16  
80026 Casoria - (NA)  
Tel. +39 081 5737038  
Fax + 39 081 5739776

**CAMPAGNA DI MONITORAGGIO LABORATORIO MOBILE**  
Punto di Campionamento: ATM 01

**Data : 24 luglio 2020**

Time	O3 µg/m³	PM10 µg/m³	SO2 µg/m³	NO µg/m³	NO2 µg/m³	NOX µg/m³	CO mg/m³	Benzene µg/m³	Toluene µg/m³	Etilbenzene µg/m³	M+P-Xilene µg/m³	O-Xilene µg/m³	TEMPE °C	PIOGGIA mm/H2O	UR E %	DV °N	VV m/s	Benzo(a)pirene ng/m³
01:00	31.86	29.84	2.79	4.68	7.20	11.88	7.58	0.02	0.00	0.00	0.00	0.00	27.3	0	51.5	135	2.10	<0.1
02:00	32.08	30.06	2.70	4.70	7.14	11.85	7.61	0.02	0.00	0.00	0.00	0.00	26.4	0	59.1	112.5	1.08	<0.1
03:00	30.97	30.13	2.75	4.66	7.18	11.84	7.61	0.02	0.00	0.00	0.00	0.00	26.2	0	59.3	112.5	1.17	<0.1
04:00	30.12	30.25	2.53	4.66	7.24	11.90	7.68	0.02	0.00	0.00	0.00	0.00	25.3	0	67.5	0	0.00	<0.1
05:00	29.64	30.12	2.83	4.67	7.18	11.85	7.70	0.02	0.00	0.00	0.00	0.00	25.1	0	65.3	225	0.10	<0.1
06:00	30.56	30.25	2.79	4.67	7.20	11.87	7.78	0.02	0.00	0.00	0.00	0.00	24.7	0	63.0	157.5	1.13	<0.1
07:00	30.12	29.85	2.57	4.65	7.21	11.86	7.72	0.02	0.00	0.00	0.00	0.00	24.1	0	64.2	112.5	1.34	<0.1
08:00	27.49	29.97	2.51	4.69	7.22	11.91	7.78	0.02	0.00	0.00	0.00	0.00	27.0	0	55.6	157.5	0.74	<0.1
09:00	26.97	30.13	2.74	4.70	7.16	11.85	7.98	0.02	0.00	0.00	0.00	0.00	27.5	0	63.2	135	2.60	<0.1
10:00	27.08	30.18	2.64	4.66	7.19	11.86	7.68	0.02	0.00	0.00	0.00	0.00	26.9	0	72.6	157.5	2.85	<0.1
11:00	13.39	30.14	2.44	4.68	7.20	11.88	7.61	0.02	0.00	0.00	0.00	0.00	27.2	0	68.1	157.5	2.78	<0.1
12:00	12.28	30.03	2.41	4.69	7.16	11.85	7.63	0.02	0.00	0.00	0.00	0.00	27.4	0	63.4	180	2.85	<0.1
13:00	8.84	30.09	2.71	4.67	7.22	11.88	7.54	0.02	0.00	0.00	0.00	0.00	28.0	0	68.7	0	0.00	<0.1
14:00	17.32	30.05	2.70	4.70	7.21	11.92	7.49	0.02	0.00	0.00	0.00	0.00	28.6	0	68.3	135	5.01	<0.1
15:00	25.57	30.01	2.53	4.68	7.22	11.90	7.45	0.02	0.00	0.00	0.00	0.00	29.0	0	65.9	135	5.37	<0.1
16:00	29.42	30.09	2.64	4.69	7.20	11.88	7.49	0.02	0.00	0.00	0.00	0.00	29.2	0	65.4	135	5.10	<0.1
17:00	31.08	30.24	2.72	4.64	7.20	11.84	7.46	0.02	0.00	0.00	0.00	0.00	29.4	0	63.6	0	0.00	<0.1
18:00	30.82	30.19	2.85	4.69	7.20	11.89	7.56	0.02	0.00	0.00	0.00	0.00	29.2	0	68.5	157.5	2.71	<0.1
19:00	32.49	30.09	2.78	4.70	7.23	11.92	7.64	0.02	0.00	0.00	0.00	0.00	28.7	0	66.6	0	0.00	<0.1
20:00	34.63	30.09	2.67	4.69	7.22	11.91	7.68	0.02	0.00	0.00	0.00	0.00	28.3	0	67.4	0	0.00	<0.1
21:00	35.48	30.39	2.62	4.68	7.23	11.91	7.69	0.02	0.00	0.00	0.00	0.00	27.9	0	66.6	0	0.00	<0.1
22:00	33.74	29.97	2.57	4.66	7.22	11.89	7.75	0.02	0.00	0.00	0.00	0.00	28.2	0	63.0	0	0.00	<0.1
23:00	34.30	30.17	2.74	4.72	7.19	11.91	7.98	0.02	0.00	0.00	0.00	0.00	27.6	0	63.6	180	0.81	<0.1
00:00	34.04	30.06	2.53	4.71	7.19	11.90	7.99	0.02	0.00	0.00	0.00	0.00	26.6	0	63.6	112.5	3.11	<0.1
Mean	27.93	30.10	2.66	4.68	7.20	11.88	7.67	0.02	0.00	0.00	0.00	0.00	27.33	0.0	64.3	104.1	1.7	<0.1
Min	8.84	29.84	2.41	4.64	7.14	11.84	7.45	0.02	0.00	0.00	0.00	0.00	24.05	0.00	51.5	0.0	0.0	<0.1
Max	35.48	30.39	2.85	4.72	7.24	11.92	7.99	0.02	0.00	0.00	0.00	0.00	29.40	0.0	72.6	225.0	5.4	<0.1

Metalli - Giornaliero	
Nichel	0.017
Arsenico	<0.001
Cadmio	<0.001
Piombo	0.004



Dott. Francesco Troisi  
Responsabile del Laboratorio