



# AEROSOL MONITORING CERTIFICATE OF ANALYSIS



CLIENT CHRIS THOMPSON - HMPS TEST DATE 11/12/18

ADDRESS 7TH FLOOR, 5 ENDEAVOUR SQUARE, PAGE NO 1 OF 3  
WESTFIELD AVENUE, LONDON E20 1JN JOB No 183215  
WEST RUISLIP STATION/  
SITE/LOCATION CRANSTON CLOSE CAR PARK – BLOCK C183215/111218/0  
B CERTIFICATE No. 1

PROCESS BEING MONITORED DIESEL FUMES FROM IDLING LOCOMOTIVE

SAMPLES STATIC ANALYST (S) CG

ANALYSIS LOCATION BALANCE ROOM, MAIN LABORATORY No. OF SAMPLES 3 + Blanks

## TEST PROCEDURES

TEST METHOD CARRIED OUT IN ACCORDANCE WITH MDHS 14/4 AND IN-HOUSE TEST PROCEDURE 4R-E206. SAMPLING STRATEGY CARRIED OUT IN GENERAL ACCORDANCE WITH HSG 173 MONITORING STRATEGIES FOR TOXIC SUBSTANCES.

TWA: 8-HOUR TIME WEIGHTED AVERAGE

FILTER NUMBER	SAMPLE TYPE *	SAMPLE LOCATION	START TIME	BREAKS IN SAMPLING (IF APPLICABLE)		FINISH TIME	FLOW RATE / (l/min)	VOLUME OF AIR / (litres)	CALC. DUST CONC <sup>n</sup> / (mg/m <sup>3</sup> )	TWA. / (mg/m <sup>3</sup> )
				TIME OFF	TIME ON					
183215/07	R	Static 1 – inside train crew office A/291	07:37	-	-	11:28	2.2	489.09	0.04	
183215/08	R	Static 2 – on footbridge leading to train crew depot	07:41	-	-	11:30	2.2	484.85	0.05	
183215/09	R	Static 3 – car park block B- Cranston close	07:50	-	-	11:21	2.2	446.74	0.07	

\* RESPIRABLE: R, THORACIC: T, INHALABLE: I

TEMPERATURE: 1.5 °C

PRESSURE: 1024.7 MILLIBARS

## UNCERTAINTY OF MEASUREMENT

THE LOWER LIMIT OF DETECTION IS CALCULATED TO BE 0.02MG. THE OVERALL ACCURACY OF MEASUREMENT IS DEPENDANT ON THE SAMPLING VOLUME: THE GREATER THE SAMPLING VOLUME, THE LOWER THE LIMIT OF ACCURATE MEASUREMENT.

**HSE WORKPLACE EXPOSURE LIMIT (EH40/05):** RESPIRABLE DUST : 4 MG/M<sup>3</sup> (8-HOUR TWA)  
INHALABLE DUST: 10 MG/M<sup>3</sup> (8-HOUR TWA)

SAMPLES TAKEN ARE HELD IN THE MAIN LABORATORY AND WILL DISPOSED OF AFTER A MINIMUM PERIOD OF SIX MONTHS.

CERTIFICATE PREPARED BY

SIGNED

GRAVIMETRIC ANALYSIS CARRIED OUT BY:

SIGNED

CERTIFIED BY

SIGNED

ISSUE DATE

21/12/18

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F L T E R NUMBER	HEAD/ PUMP NO.	START FLOW RATE / (l/min)	START T M E	F N A L FLOW RATE / (l/min)	F N I S H TIME	FLOW RATE CHECK / (l/min)	TIME	FLOW RATE CHECK / (l/min)	TIME	FLOW RATE CHECK / (l/min)	TIME	FLOW RATE CHECK / (l/min)	TIME
183215/07	4RS42/ 441154	2.2	07:37	2.2	11:28	-	-	-	-	-	-	-	-
183215/08	4RS45/ 441148	2.2	07:41	2.2	11:30	-	-	-	-	-	-	-	-
183215/09	4RS63/ 441162	2.2	07:50	2.2	11:21	-	-	-	-	-	-	-	-

**ENVIRONMENTAL CONDITIONS**

START TEMPERATURE 0 °C

START PRESSURE 1024.9 MILLIBARS

FINAL TEMPERATURE 3 °C

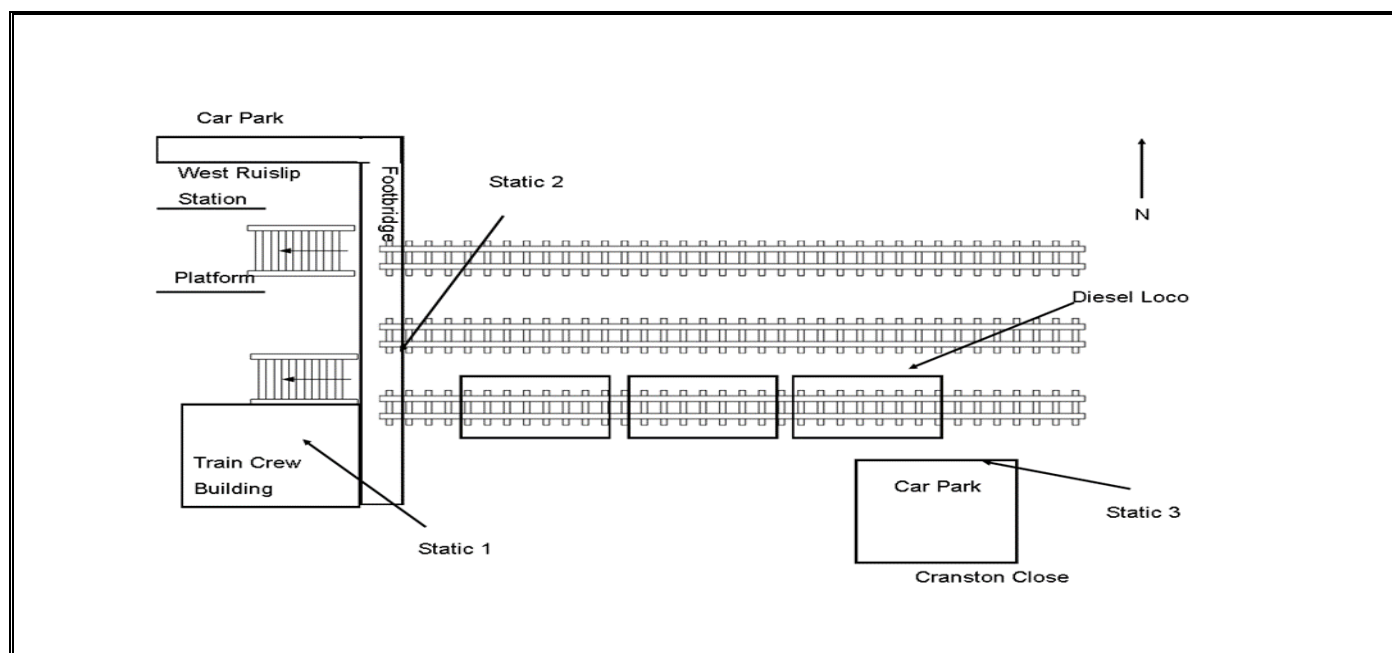
FINAL PRESSURE 1024.5 MILLIBARS

BALANCE SERIAL NO. L40355 CALIBRATION DUE DATE JUNE 2019

TIME KEEPING CG CALIBRATION DUE DATE 30/04/19  
EQUIPMENT TIMEPIECE

FLOWMETER REF. NO. 410286 CALIBRATION DUE DATE 07/02/19

TEMPERATURE GAUGE. NO. 410453 CALIBRATION DUE DATE 23/01/19

**SITE DIAGRAM**

**REMARKS/OBSERVATIONS**

***THE OPINIONS AND INTERPRETATIONS EXPRESSED HEREIN ARE OUTSIDE THE SCOPE OF THE UKAS ACCREDITATION***

AIR VELOCITY, IF REQUIRED : METRES PER SECOND

AIR DIRECTION, IF REQUIRED :

**DURING SAMPLING**

07:30	4RS STAFF AT WEST RUISLIP CAR PARK. PROCEED TO TRAIN CREW DEPOT
07:37	1 x AM RESPIRABLE PUMP + GAS MONITOR KAMIL COMMENCED WITHIN ROOM A/291 AT STATIC 1
07:41	1 x AM RESPIRABLE PUMP + GAS MONITOR PENELOPE COMMENCED ON FOOTBRIDGE LEADING TO TRAIN CREW DEPOT AT STATIC 2
07:50	1 x AM RESPIRABLE PUMP + GAS MONITOR ABIGAIL COMMENCED IN CAR PARK BLOCK B – CRANSTON CLOSE STATIC 3
	WEATHER CONDITIONS: COLD AND A BIT FOGGY. SOME SUNSHINE
11:15	TRAIN MOVEMENT FOR TODAY HAS BEEN CANCELLED
11:21-11:30	ALL GAS MONITORS AND PUMPS STOPPED
	4RS OFF SITE

**DURING GRAVIMETRIC ANALYSIS**

NONE NOTED