

Revision details:

Issue	Reason for re-issue	Date of re-issue
2	Change in site plan for Appendix 7.5 and correction to location of survey area on 29 th August 2014 survey report: part of foul network "2" monitored, not "1" as previously stated on original survey report.	06/11/14

Signatures				
Author(s):			1	
		Date:	7/11/14	
Checked:			7/1/11	
		Date:	7/11/14	
Approved:				
		Date:	7/11/14	

©Copyright Nuvia Limited - All rights reserved. No part of this document gray be reproduced, stored in retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of Nuvia Limited.

> Nuvia Limited, Kelburn Court, Daten Park, Risley, Warrington, WA3 6TW Tel: 01925 858200 Fax: 01925 811866 Email: Info@nuvia.co.uk www.nuvia.co.uk



Document Ref. 72618/TR/002 Issue 2 Page 2 of 17

CONTENTS

1	INT	RODUCTION	3
2	SC	OPE OF WORK	3
3	EQ	UIPMENT USED FOR SITE RADIOLOGICAL MONITORING	3
4	MO	NITORING METHODOLOGY	4
5	MO	NITORING RESULTS	4
6	CO	NCLUSION	4
7	AP	PENDICES	5
	7.1	Radiation Monitor Test certificates	5
	7.2	Areas monitored on site plan – F01-T011 and F01-T012	13
	7.3	Areas monitored on site plan – F02-T005 and F02-T004	14
	7.4	Areas monitored on site plan – S03-T021 and S03-T015	15
	7.5	Areas monitored on site plan –S03-T004 to S03-11 and S03-T023 toS023-T027	16
	7.6	Survey Sheets from 18/8/14-12/9/14 and lorry monitoring 26/8/14 -9/9/14 2014	17



Document Ref. 72618/TR/002 Issue 2 Page 3 of 17

1 INTRODUCTION

During the site excavation of the Queen Elizabeth Olympic Park, as part of the original enabling works, several discrete areas of low levels of radioactively contaminated spoil were discovered. This radioactive material was present due to the former use of part of the site as a landfill along with the former industries located in this part of East London, some of which incorporated processes which concentrated Naturally Occurring Radioactive Material (NORM) to elevated levels. The work that has historically been completed in dealing with this radioactive legacy is documented elsewhere.

Balfour Beatty is contracted to start the transformation of the main stadium in Queen Elizabeth Olympic Park to a legacy structure. A number of operations in this transformation will involve the disturbance of earth groundwork and consequently may carry a risk, albeit low, of revealing radioactively contaminated soil resulting in potential exposure to operatives. Drilling, piling and excavation operations may reveal the presence of radioactively contaminated soil since they will be penetrating through the "marker layer" which demarcates the transition between materials that are known to be free from contamination and materials whose historical provenance is unknown.

The radiological prior risk assessment 72618/PRA/001 (Issue 3) identified the controls to be implemented for groundwork operations within Queen Elizabeth Olympic Park. This forms the basis of controls as described in method statement 72618/MS/001 (Issue 3) to ensure that personnel exposure from ionising radiations is minimised and dose uptake is maintained at levels that are As Low As Reasonably Practicable (ALARP).

The role of Nuvia Health Physics was to provide a watching brief and carry out periodic radiological re-assurance monitoring of excavated material and plant, machinery and equipment.

2 SCOPE OF WORK

The scope of Nuvia's work included:

- Radiation Protection Advice including the preparation of Radiological Risk Assessments and Method statements associated with Nuvia's work on the site.
- Provision of suitably qualified and experienced radiation monitoring personnel on site to provide a "watching brief".
- Additional consultancy as required including the determination of appropriate monitoring hold points

3 EQUIPMENT USED FOR SITE RADIOLOGICAL MONITORING

The radiation monitoring equipment used during the monitoring was (test certificates in Appendix 7.1):

- Mini-Rad 1000 s/n 930
- Mini-Rad 1000 s/n 932
- Mini-Monitor 900 c/w 44b probe- s/n 036745/1045
- Electra rate meter c/w DP6 probe- s/n 2061/1767
- Electra rate meter c/w 3" Nal probe s/n 6635/1761
- Electra rate meter c/w 3" Nal probe s/n-199/2436
- Electra rate meter c/w 3" Nal probe s/n-6310/2438



4 MONITORING METHODOLOGY

The radiological monitoring was conducted using a combination of the above radiation monitoring equipment by a trained surveyor. Where possible, the monitoring consisted of a walkover of all accessible areas of the planned excavations, prior to excavation commencement.

Areas subject to monitoring are in shown in Appendix 7.2 - 7.5: Selected monitoring was also undertaken of:

- the excavated pits and trenches;
- excavator bucket and;
- spoil heaps;
- lorry monitoring.

5 MONITORING RESULTS

Results were recorded on survey report forms- see Appendix 7.6.

6 CONCLUSION

Method statement 72618/MS/001(Issue3) identifies a key hold point at a threshold of 1300 Counts Per Second (CPS) (relating to Ra-226 at an activity concentration of 0.5Bq/g) for walkover surveys or a measurement average for lorry monitoring of more than 300CPS. Monitored materials above these hold points could potentially be subject to radioactive substances legislation.

The site's background radiation readings for the monitors used was:

- Electra rate meter c/w 3" Nal probe detector is ~300 CPS,
- Electra rate meter c/w DP6 is ~5CPS
- Mini Instruments 900 c/w 44b probe is ~8CPS ,
- Min Rad 1000 is ~0.1µSv/h

Given the above background readings, there were only four areas that showed slightly elevated, readings, but all were well below the 1300CPS for surface monitoring and averaged 300CPS lorry monitoring threshold. (NB: the below readings include background):

- On 18th August, spoils near trench between S03-T027 and S03T026, gave a response 300 to 700 CPS. The trench itself provided a response of 300-400 CPS.
- On 22nd August, of 19 lorries monitored, one lorry (transfer ticket number 50961) had a localised elevated reading of 500CPS which when averaged over the load was 251CPS. This is below the action level (300CPS) required for further segregation/investigation.
- On 1st September, at the Podium level spoils laydown area near man-hole S03T023 (surface water), a small area of approximately 3mx2m showed an elevated response of 500-1000CPS with an associated dose rate of 0.2-0.5µSv/h.
- On 2nd September, at the podium level spoils from SW0311 to SW0312 used for backfilling had a response of 300-800CPS.

It should be noted that changes to the survey geometry (as in the cases above) can result in variations to the counts detected.

As such, no areas monitored to date, have been identified as being likely to contain material that is likely to be subject to radioactive substances legislation. In addition, the radiological risk to workers (and by extension to members of the public) from this work has been judged to be negligible.



Document Ref. 72618/ R/002 Issue 2 Page 5 of 17

7 A 'PENDICES

7.1 adiation Monitor Test certificates

		nu	VIA		Certificate Number: 1337711GW Date of Issue: 11 September 2013
0210	(Certificate	of Calibra	tion	Page 1 of 1 Pages
Issued By:	Nuvia Limited	- A56 Winfrith, DT2 8W	/Q Tel: (01305) 75522	1 www.rpiservices.c	o uk
Customer:	Nuvia Limited	(Hanweil)		Postal Code:	OX11 0QJ
Instrument:	Electra			Serial No:	6230
Detector:	Generic 3" No	al		Serial No:	2438
Reason:	Annualrecali	bration.		oenar no.	1400
Conditions:	Atmosphasia	-			
	PARKAGE INCOME	Pressure 1009mBar, Te	moerañ ve 24°C. Relativ	a Linability 5184	
Method:	The delector	Pressure 1009mBar, Te W88 positioned in a colli	mperature 24°C, Relativ	e Humidity 51%.	
Method: Orientation:	The delector The instrument Manufacturent	Pressure 1000mBar, Te W98 positioned in a colle It was mounted horizoni s stated sensitivity is 450	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 cps / uSwh.	e Humidity 51%. adiation al to its front face.	
Method: Orientation: CALIBRATION	The delector The instrumer Manufacturen	Pressure 100amiliar, Te W88 positioned in a colli nt was mounled horizoni s stated sensitivity is 450	mperature 24°C, Relativ mated beam of gamma r fally with the beam norm 00 cps / uSwh.	e Humidity 51%. adiation all to its front face.	
Method: Orientation: CALIBRATION Applied Nuclide	The delector The instrumer Manufacturen NRESULTS Instrument Range	Applied Doserate HT(0)	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 ops / uSwh. Observed Reading	e Humidity 51%. radiation sai Is its front face. Meter Fluctuation	n
Method: Orientation: CALIBRATION Applied Nuclide Background	The delector The instrumer Manufacturen RESULTS Instrument Range N/A	Applied Doserate H1(10) 009 uSvth	mperature 24°C, Relativ mated beam of gamma r fally with the beam norm 00 ops / uSwh. Observed Reading 110 ops	e Humidity 51%. adiation al 1» its front face. Meter Fluctuation	n
Method: Orientation: CALIBRATION Applied Nuclide Background 19705	The detector (The instrument Manufacturen RESULTS Instrument Range N/A	Applied Doserate H*140 Applied Doserate H*140 009 µSv/h 0.5 µSv/h	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 cps / uSwh. Observed Reading 110 cps 1555 cps	e Humidity 51%. adiation al Ib its front face. Meter Fluctuation	n
Method: Orientation: CALIBRATION Applied Nuclide Background ¹³⁷ C6 ¹³⁷ C5	The detector to The instrument Manufacturen V RESULTS Instrument Range N/A N/A N/A	Applied Doserate HY100 Applied Doserate HY100 0.09 µSv/h 1.0 µSv/h	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 cps / uSwh. Observed Reading 110 cps 1555 cps 3230 cps	e Humidity 51%. adiation ad to its front face. Meter Fluctuation	n
Method: Orientation: CALIBRATION Applied Nuclide Background 137 Cs 137 Cs 137 Cs	The detector of The instrument Manufacturen VRESULTS Instrument Range N//A N//A N//A	Applied Doserate H1100 Stated sensitivity is 450 Applied Doserate H1100 0.09 µSv/h 1.0 µSv/h 2.5 µSv/h	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 cps / uSwh. Observed Reading 110 cps 1555 cps 3230 cps 8490 cps	e Humidity 51%. adiation al Ib its front face. Mater Fluctuation	n
Method: Orientation: CALIBRATION Applied Nuclide Background 137 C6 137 C6 137 C5 137 C5 137 C5 137 C5 137 C5	Nandaphene I The instrument Manufacturen NRESULTS Instrument Range N/A N/A N/A N/A N/A N/A N/A	Applied Doserate H*100 009 µSv/h 2.5 µSv/h 2.5 µSv/h 2.5 µSv/h 2.5 µSv/h 2.5 µSv/h 2.5 µSv/h 2.5 µSv/h 2.5 µSv/h	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 ops / uSwh. Observed Reading 110 ops 1555 ops 3230 ops 8490 ops 16960 ops	e Humidity 51%. adiation ail I» its front face. Meter Fluctuation	n
Method: Orientation: CALIBRATION Applied Nuclide Background 137 Cs 137 Cs 137 Cs 137 Cs 137 Cs 137 Cs 137 Cs 137 Cs	Antosprenci The detector of The instrument Manufacturen Instrument Range N/A N/A N/A N/A N/A N/A N/A N/A N/A	Applied Doserate H1(10) 009 µSv/h 0.5 µSv/h 0.5 µSv/h 0.5 µSv/h 0.5 µSv/h 0.5 µSv/h 0.5 µSv/h 0.5 µSv/h 0.5 µSv/h	mperature 24°C, Relativ mated beam of gamma r fally with the beam norm 00 ops / uSwh. Observed Reading 110 ops 1555 ops 3230 ops 8490 ops 16900 ops 25100 ops	e Humidity 51%. adiation al Ib its front face. Meter Fluctuation	n

Comment:



The instrument meets the requirements of GPC 14 and is satisfactory for use. The satisfaction used the following software; GimmaCalexev v1.9.13 Profile: 5.

6.

8.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdon Accreditation Services. I provides tracebility of intelastivisment to reception retional standards, and to inits of receivercent revised at the National Physical Laboratory or other recognised national attractions is a constrained on the reproduced ofter them in tail, except with the prior withen approvel of the lawing laboratory.



Document Ref. 72618/TR/002 Issue 2 Page 6 of 17

	Ra	idiological Moni [,] Oly	tori⊣g at Queen mpic Park	Elizabet ı	Docum 72618/ Issue 2 Page 7	ent Ref. R/002 of 17
	c	nuv certificate	of Calibrat	ion	Certific 1413 Date of 29 April Page 1	Sate Number: 8667GW Flssuc: 12014 of 1 Pages
Issued By:	Nuvia Limited	- A56 Winfrith, DT2 8W	Q Tel: (01305) 755221	www.rpiservices	s.co.uk	
Customer:	Nuvia Limited	(Harwell)		Postal Code	•: OX11	10QJ
Instrument:	Mini Instrume	nt 1000R		Serial No	5: 930	
Reason:	Annual recalit	oration.				
Conditions:	Atmospheric P	Pressure 993mBar, Tem	perature 22°C, Relative	Humidity 37%.		
Method:	The instrumer	nt was positioned in a co	llimated beam of gamm	aradiation		
Orientation:	The instrumer	t was mounted horizont	ally with the beam nom	al to its front face		
CALIBRATIO	RESULTS					
Applied Nuclide	Instrument Range	Applied Dcserate H*(10)	Observed Reading	Meter Fluctuat	ion	
¹³⁷ Cs Background	N/A N/A	10 mSv/h 0.09 μSv/h	FSD 0.1 µS∨/h	Overload - PASS	ED	
Applied	Instrument	Applied Dcserate	Observed Reading	Meter Fluct	uation	Instrument
Nuclide	Range	H*(10)	Total Uncertainty	If greater than	±10%	Response
¹³⁷ Cs	N/A	50) μSv/h	400 µSv/h ±6.1%			0.80
¹³⁷ Cs	N/A	5) µSv/h	40 µSv/h ±6.1%			0.80
¹³⁷ Cs	N/A	5 μSv/h	4 µSv/h ±6.1%			0.80
⁶⁰ Co	N/A	0.5 µSV/n	0.4 µSv/n ±73.2%			0.80
²⁴¹ Am	N/A	50 µSv/h	45 µSv/h ±7.2%			0.90

1. Ambient dose equivalent H*(10) rates are derived from measurements made by a dosemeter calibrated at the NPL, and assume that an air kerma of 1 Gy = 1.2 SV for 137 Cs, 1.15 S/ for 60 Co and 1.74 SV for 241 Am.

Approved By:

The uncertainty of H*(10) rates 2 µSv/h and higher is ±3%, below 2 µSv/h is ±6% and background is ±10%. The uncertainty in the H*(10) rate from ²⁴¹Am is ±5%. The uncertainty associated with temperature is 0.09% and pressure is 0.07%. The reported expanded uncertainty is based on a standard uncertainty nultiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

The readings quoted are eye averages observed after the detector has been exposed for a period sufficiently long to enable it to reach equilibrium.

 If the fluctuation of the observed reading was greater than ±10% of the average reading, then the minimum and maximum observed readings have been stated.

 Before using the instrument the user should be familiar with its characteristics (energy dependence, directional dependence, etc.). Such information may be obtained from a type test report.

6. The calibration was done on the date of issue of the certificate.

Calibrated By:

Notes:

7. The instrument meets the requirements of GPG 14 and is satisfactory for use.

8. This calibration used the following software; GammaCal.exe: v1.9.13 Profile: 1000R 0-1mSv/h - With Uncertainties

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides tracability of measurement forecognised national standards, and to units of measurement realised at the National Physical Laboratory or other recognised national standards latoratories. This Certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

	R: IA	ndiological Mon Oly	itori⊣g a ympi≎ Pa	t Queen ark	Elizabet	Docum int Re 72618/ R/00 Issue 2 Page 8 of 17
UKAS OZ10 Issued By:	Nuvia Limited, B351, (ertificat	e	Certifica 1410 Dats of i 03 Mar 2 Page 1 o	te Number: 137CH ssue: 014 df 1 Pages
	lei: 01235 514806 Fr	A. 01230 014800 180. 180. 180. 1				
Customer:	Nivia Ltd			Pos	tal Code: OX11	0TQ
Barcode: Detector:	2000003784 Thermo Fisher Scientific	(NET) DP6AD - Alpha / Beta Pr	obe	\$	Serial No: 1767	
Barcode:	200002646				Regial No: 2061	
Ratemeter:	Thermo Fisher Scientific Culibration after repair	(NET) Electra TA To probe foil.			A COLUMN TO A COLUMN	
Method:	The detector's EHT was The detector was expose (100 cm ²), and the respo	as received. ad to the surface of a number of active responses was then note	standard sources d below.	, whose active ar	eas were malched	to that of the probe
Orientation:	The detector was position	ned with its active face parallel t	the source at a	distance of 3nm		
		CALIBRATION	RESULT	5		
Additional Test	s Method	网络的名子名法国内科学会主义	Cold State Barry	的复数肥富的错误		Result
Condition	The instrument was connection lead, de	subjected to a pre-calibration in lector condition.	spection of batter	y state, mechanic	al condition,	PASS
Light Leakage	The detector was ex	posed to a 500W lanp, as requ	ired by NPL GPG	No.14 (4.8), and	any variation in	PASS
β Rejection	The instrument was No.14 (4.7) the resp	set to the Alpha range and expo onse should be lessthan 1% of	osed to a ⁴⁸ Sr/Υβ the response of t	source. As requi hat from an alpha	red by NPL GPG source of a	PASS
Uniformity	A standard 10 point	uniformity test was performed o	n the detector usi	ing a small ⁹⁰ S/Y	β source as	PASS
U Disc (a) #1	required by NPL GP A uranium check dr	ic serial number A4 vas applied	to the detector.			52 cps (a)
	A uranium check dir	ac serial number A4 vas applied ared using a high impedance pro-	to the delector. obe. reading noted.			2635 cps (3) 861 Volts 865 Volts
U Disc (β)*1 Detector EHT*1	The EHT was meas The instrument met	er was switched to EHT and its r				
U Disc (B)** Detector EHT**	The EHT was meas The instrument mea	er was switched to EHT and its r	网络网络	Mean	Fluctuation	2π Efficiency
U Disc (β)** Detector EHT*1 Response To C Applied	The EHT was mean The instrument met ontamination As was set by NPL of Source ID	er was switched to EHT and its r PG M: HER Surface Enission Ratio *1	Instrument Rango	Mean Response cps	Fluctuation (See notes)	2# Efficiency %
U Disc (β)** Detector EHT*1 Response To C Applied Isotope ³⁸ Cl	The EHT was meat The instrument met ontamnation As assed by APL o Source ID J01H/EA573	er was switched to EHT and its r PG M FERE Surface Emission Rate s' 3516	Instrument Range Beta	Mean Response cps 1342	Fluctuation (See notes)	2r Efficiency 56
U Disc (β)*" Detector EHT *' Response To C Applied Isotope ³⁸ (1 3*'Am β Background	The EHT was meat The instrument met ontamination As wasked by APL of Source ID JO1WEA573 JO1WEA576	er was switched to EHT and its r Nor Miterker Rate s ⁻¹ 3516 3708	Instrument Range Beta Alpha Beta	Mean Response cps 1342 1281 5.83 0.2	Fluctuation (See notes) - -	2x Efficiency % 38 35
U Disc (β)** Detector EHT *1 Response To C Applied Isotope ³⁴ Cl ³⁴ Cl	The EHT was meat The instrument met ontamination As wasked by APL of Source ID J01//EA573 J01//EA576	er was switched to EHT and its r Surface Enission Rate s ⁻¹ 3518 3708 -	Instrument Range Beta Alpha Beta Alpha	Mean Response cps 1342 1281 6.83 0.2	Pluctuation (See notes) - - -	2x Efficiency % 38 35 -
U Disc (β) ^{*1} Detector EHT ^{*1} Response To C Applied Isotope ³⁴ Cl ²⁴¹ Am β Background a Background Linearity Respo	The EHT was meat The instrument met ontamination As waved by APL of Source ID J01WEA573 J01WEA576 - - -	er was switched to EHT and its r Surface Enission Rate s' 3516 3708	Instrument Rango Beta Alpha Beta Alpha	Mean Response cps 1342 1281 6.83 0.2 trument Ranse	Pluctuation (See notes) - - - - - -	2: Efficiency 5: 36 35 -
U Disc (β) ^{*1} Detector EHT ^{*1} Response To C Applied Isotope ³⁸ Cl ²⁸¹ Am β Background α Background Linearity Respo Applied Isotope	The EHT was meat The instrument met ontamination As wasked by APL o Source ID J01WEA573 J01WEA576 - - - - 	er was switched to EHT and its r Surface Emission Rate s' 3516 3708 Surface Emission Rate s 21	Instrument Range Beta Alpha Beta Alpha	Mean Response cps 1342 1281 5.83 0.2 trument Range ha	Pluctuation (See notes) - - - - - Respon 8.10	2r Efficiency 56 36 35 -
U Disc (β) ^{*1} Detector EHT ^{*1} Response To C Applied Isotope ³⁸ Cl ²⁸¹ Am β Background α Background Linearity Respo Applied Isotope ²⁹¹ Am ²⁹¹ Am	The EHT was meat The instrument met ontamination As wasked by APL of Source ID JO1WEA573 JO1WEA576 	er was switched to EHT and its r Surface Emission Rate s' 3516 3708 - - Surface Emission Rate s 21 164	Instrument Range Beta Alpha Beta Alphs	Mean Response ops 1342 1281 5.83 0.2 trument Range ha	Pluctuation (See notes) - - - - - - - - - - - - - - - - - - -	2r: Efficiency 56 36 35 - -

Comment: All readings were acquired using the integrate mode timed for 30secs.

Calibrated By:

Approved By:

- Ees: The industriation has been equiverants of NPL GPO 14, demonstrating its linease for 600. The surface emission stated each source was executed using a transfer transfer between to compare 1 with the emission rate hore a NPL. Common server in the source executed in the source of executed and the source of the source of executed and the source of the source of executed and the source of the -

- 未愿最不限
- In the Visit applicable in I Instrumentation in the certificate of the response to emistral rate without background soldardion considered in the second and on the second and second and the s al sta

	IA	Radiologica	al Monitori⊣g a Olympic P	at Queen El Park	izabet ı	Docui 72618 Issue Page	m ⊧nt Ref. 8/ ⁻ R/002 2 9 of 17
	с	nu ertificate	VIA of Calibrat	ion	Certificate No 1408234 Date of Issue 17 February 2 Page 1 of 1 P	umber: 4GW :: :014 Pages	
Issued By:	Nuva Limited	- A56 Winfrith, DT2 8W	Q Tel: (01305) 755221	www.rpiservices.	co.uk		
Customer:	Nuva Limited	(Harwell)		Postal Code:	OX11 0QJ		
Instrument:	MiniInstrumer	nt 1000R		Serial No:	932		
Reason:	Annual recalib	ration.					
Conditions:	Atmospheric F	Pressure 1009mBar, Ter	mperature 24°C, Relativ	e Humidity 51%.			
Method:	Theinstrumen	t was positioned in a co	ollimated beam of gamm	a radiation			
Orientation:	Theinstrumen	t was mounted horizont	taly with the beam norm	al to its front face.			
CALIBRATION	RESULTS	Statistics of Statistics				han This	
Applied Nuclide	Instrument Range	Applied Doserate	Observed Reading	Meter Fluctuation	on		
137 Cs Background	N/A N/A	10 mSv/h 0.09 μSv/h	FSD 0.1 μSv/h	Overload - FASSE	D		
Applied Nuclide	Instrument Range	Applied Doserate	Observed Reading Total Uncertainty	Meter Fluctus If greater than ±	ation Ins 10% Re	trument	
¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ⁶⁰ Co ²⁴¹ Am	N/A N/A N/A N/A N/A	500 μSv/h 50 μSv/h 5 μSv/h 0.5 μSv/h 50 μSv/h 50 μSv/h	500 μSv/h ±6.1% 50 μSv/h ±6.1% 5 μSv/h ±6.1% 0.5 μSv/h ±13.2% 60 μSv/h ±6.1% 55 μSv/h ±7.2%			1.00 1.00 1.00 1.00 1.20 1.10	

Cal	ibrate	d By:

Approved By:

Notes:

1.

Ambient dose equivalent H*(10) rates are derived from messurements made by a dosemeter calibrated at the NPL, and assume that an air kerma of 1 Gr = 1.2 Sv for ¹³⁷ Cs, 1.15 Sv for ⁹⁰ Co and 1.74 Sv for ²⁴¹ Am. The uncertainty of h*(10) rates 2 μ Sv/h and higher is ±3%, below 2 μ Sv/h is ±6% and background is ±10%. The uncertainty in the H*(10) rate from ²⁴¹ Am is ±5%. The uncertainty associated with temperature is 0.09% and pressure is 0.07%. The reported expanded 2. uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. The readings quotes are eye averages observed after the detector has been exposed for a period sufficiently long to enable it to

3. reach equilibrium.

If the fluctuation of he observed reading was greater than ±10% of the average reading, then the minimum and maximum observed 4. readings have been stated. Before using the instrument the user should be familiar with its characteristics (energy dependence, directional dependence, etc.).

5.

Such information may be obtained from a type test report. The calibration wasdone on the date of issue of the certificate. 6

The instrument meets the requirements of GPG 14 and is satisfactory for use. This calibration used the following software; GammaCal.exe: v1.9.13 Profile: 1000R 0-1mSvh - Wth Uncertainties 8.

This pertificate is issued is accordance with the laboratory accreditationrequirements of the United Kingdom Accreditation Service. If provides tracability of measurement to recognised national standards, and to units of measurement realised at the National Physical Laboratory or other recognised national atenderds laboratorias. This Certificate may not be reproduced other than in full, except with the prior written approval of the lassing faboratory.

		Radiologica	I Monito Olym	ri⊣g at Queen E pic Park	lizabet ı	Docum ∍nt Ref. 72618/ ⁻ R/002 Issue 2 Page 10 of 17
	-	nu		we tie m	Certificate Num 1407199 Date of Issue: 12 February 20	nber: GW
0210		ertificate o		ration	Page 1 of 1 Pag	ges
Issued By:	Nuvia Limited -	A56 Winfrith, DT2 8WQ	Tel: (01305)	755221 www.rpiservices	co.uk	
Customer:	Nuvia Limited (Harwell)		Postal Code	: OX11 0QJ	
Instrument:	Mini \$900			Seria No	: 036745	
Detector:	Mini 44B			Seria No	1045	
Reason:	Annual recalibr	ation.				
Conditions:	Atmospheric Pr	ressure 1009mBar, Temp	perature 24°C,	Relative Humidity 51%.		
Method:	The instrument mm fom the er The cap was re The overload tr For the the ¹³⁷ O	HT was adjusted to ensu ad of the probe. moved. This ensures that ip setting was adjusted of a linearity checks, the do	are that it was o at the low energe correspondingly elector was mo	on the ⁵⁵ Fe X-ray plateau t by threshold is less than 5 unted with the beam sorm	vyusing a ⁵⁶ Fesk keV. al toits end wind	ource 3
	the cap fitted.	The measurement quant	ity used was an	nbient dose equivalert rat	ə, H*(10).	
Usage:	The instrument	is suitable for the detect	ion of X-radiation	on hot spots for energies it	n excess of 5 keV	<i>.</i>
CALIBRATION	NRESULTS				新闻·新聞	
Overload Res Applied Nuclide	sponse Instrument Range	Applied Doserate H*(10)	Observed Reading			
^{13/} Cs	N/A	10000 µSv/h	FSD	Overload - PASSED		
Linearity Res Applied	ponse Instrument	Applied Doserate	Observed	Fluctuations	Back	ground
Nuclide	Range	H*(10)	Reading		Corrected Res	sponse
137 Cs	N/A	5 µSv/h	400 cps		79 cps	ι/ μSv/h
137Cs	N/A	20 µSv/h	1600 cps		80 cps	/ µSv/h
Low Energy F	Response					
Applied Nuclide	Instrument Range	Applied Activity	Observed Reading	Fluctuations		
55Fe (TS348)	N/A	60 kBq	60 cps			
Background	Response			F 1 ()		
Applied	Range		Reading	Fluctuations		
Background	N/A		Feating			
Dackyrounu	10/1		o cps			1

Ca	librated By:	Approved By:
No	tes:	
1.	The air kerma	rate has been measured by a doserneter calibrated at the NPL.
2.	The uncertain	ty in the air kerma rate 2 µGy/h and higher is ±3%, below 2 µGy/h is ±6% and background is ±10%. The uncertainty
	from ²⁴¹ Am is	±5%. The uncertainty associated with temperature is 0.09% and pressure is 0.07%. The reported expanded uncertainty
	is based on a uncertainty ev	standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%. The valuation has been carried out in accordance with UKAS requirements.
3.	The readings reach equilibri	quotedare eye averages observed after the delector has been exposed for a period sufficiently long to enable it to ium.
4.	If the fluctuation readings have	on of the observed reading was greater than ±10% of the average reading, then the minimum and maximum observed been stated.
5.	Before using t Such informat	the instrument the user should be familiar with its characteristics (energy dependence, directional dependence, etc.). Ion may be obtained from a type test report.
6.	The calibration	n was cone on the date of issue of the certificate.
7.	The instrument	nt meets the requirements of GPG 14 and is salisfactory for use.
8.	This calibratio	n used the following software; GammaCal.exe v1.9.13 Profile:
7	his certilicate is is miasurement to standards lab	sued in accordance with the latoratory accreditation nquirements of the United Kingdum Accreditation Service. It provides tracability of recognised national standards, and to units of measurement realised at the National Physical Laboratory or other recognised national poratories. This Certificate may not be reproduced other than in Iuil, except with the prior written approval of the issuing laboratory.

_ |

		Radiological N	/lonitori⊣g at G Olympic Park	Queen Elizal	bet ı	Docum ent Re 72618/ R/00 Issue 2 Page 11 of 1	ef. 2 7
UKAS OZIO	C		of Calibrat	ion	Certificat 13482 Date of Is 25 Novem Page 1 of	e Number: 258GW sue: ber 2013 1 Pages	
Customer:	Nuvia Limited	(Harwell)	a Tel. (01505) 755221	Postal Code:	OX11.0	LO	
Instrument:	Electra	(Serial No:	6635		
Detector:	Generic 3" Na	1		Serial No:	1761		
Reason:	Annual recalib	ration.					
Conditions:	Atmospheric F	Pressure 1009mBar, Ten	nperature 24*C, Relative	Humidity 51%.			
Method:	The detector v	vas positioned in a cellin	nated beam of gamma ra	diation			
Orientation:	The instrumen Manufacturers	t was mounted horizont stated sensitivity is 450	ally with the beam norma 10 cps / uSv/h.	al to its fiont face.			
CALIBRATION	RESULTS	通信 新 新 新 新	建建造物的	這些非要要領		課 國際市	
Applied Nuclide	nstrument Range	Applied Doserate H*(10)	Observed Reading	Meter Fluctuatio	'n		
Background	N/A	0.09 µSv/h	138 cps				
137Cs	N/A	1.0 µSv/h	3350 cps				
137Cs	N/A	2.5 µSv/h	8910 cps				
137 Cs	N/A	5.0 μSv/h	17300 cps				
137 Ce	N/A	7.5 µSv/n 10 µSv/h	25500 cps				
⁽³⁷ Cs	N/A	10000 µSv/h		Overload - PASSE	D		

Calibrated By:		Approved By:		
Notes:				
1. Ambient dose	equivalent H*(10) rates are derived from measure	ments made by a dosernete	r calibrated at the NPL,	and assume that

1. Ambi Antioper dose equivalent in (10) rates are derived in the selection in the solution of a dose in direction of the solution of 2

Proj table from Amile 20%. The uncertainty associated with temperature is 0.00% and presence is 0.00%. In the reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. The readings quoted are eye averages observed after the detector has been exposed for a period sufficiently long to enable it to

3. reach equilibrium. If the fluctuation of the observed reading was greater than ±10% of the average reading, then the minimum and maximum observed 4.

readings have been stated. Before using the instrument the user should be familiar with its characteristics (energy dependence, directional dependence, etc.). 5.

- 6.
- Such information may be obtained from a type test report. The calibration was done on the date of issue of the catificate. The instrument meets the requirements of GPG 14 and is satisfactory for use. This calibration used the following software; GammaCaLexe: v1.9.13 Profile:
- 8.

This pertificate is issued in accordance with the laboratory accrediation requirements of the United Kingdom Accreditation Service. It provides tracebility of measurement to recognised national standards, and to units of newsurement revised at the National Physical Laboratory or other recognised national standards laboratories. This Certificate may not be reproduced other than in full, except with the prior units a fine issuing laboratory.

		Radiological N	/lonitori⊣g at G Olympic Park	Queen Elizal (bet i	Docum and 72618/ [°] R Issue 2 Page 12 c
		nu			Certificate 13377	Number: 12GW sue: ber 2013
0210	C	Certificate	of Calibrat	tion	Page 1 of	1 Pages
Issued By:	Nuvia Limited	- A56 Winfrith, DT28W	Q Tel: (01305) 755221	1 www.rpiservices.e	co.uk	
Customer:	Nuvia Limited	l (Harwell)		Postal Code:	OX11 00	บ
Instrument:	Electra			Serial No:	199	
Detector:	Generic 3" Na	al		Serial No:	199	
Detector: Reason:	Generic 3" Na Annual recalit	al bration.		Serial No:	199	
Detector: Reason: Conditions:	Generic 3" Na Annual recalit Atmospheric I	al bration. Pressure 1009mBar, Te	mperature 24°C, Relativ	Serial No: e Humidty 51%.	199	
Detector: Reason: Conditions: Method:	Generic 3" Na Annual recalit Atmospheric I The detector	al bration. Pressure 1009mBar, Te was positioned in a colli	mperature 24°C, Relative mated beam of gamma r	Serial No: e Humidty 51%. radiation	199	
Detector: Reason: Conditions: Method: Orientation:	Generic 3" Na Annual recalit Atmospheric I The detector The instrumen Manufacturen	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is 450	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 cps / uSv/h.	Serial No: e Humidty 51%. radiation nal to its front face.	199	
Detector: Reason: Conditions: Method: Orientation: CALIBRATION	Generic 3" Na Annual recalit Atmospheric I The detector of The instrumer Manufacturers NRESULTS	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is450	mperature 24°C, Relativ mated beam of gamma r tally with the beam norm 00 cps / uSv/h.	Serial No: e Humidty 51%. radiation al to its ront face.	199	
Detector: Reason: Conditions: Method: Orientation: CALIBRATION Applied Nuclide	Generic 3" Na Annual recalit Atmospheric I The detector of The instrumer Manufacturers NRESULTS Instrument Range	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is 45 Applied Doserate H*(:0)	mperature 24°C, Relative mated beam of gamma r tally with the beam norm 00 cps / uSv/h. Observed Reading	Serial No: e Humidty 51%. radiation al to its ront face. Meter Fluctuatio	199 on	
Detector: Reason: Conditions: Method: Orientation: CALIBRATION Applied Nuclide Background	Generic 3" Na Annual recalit Atmospheric 1 The detector of The instrumer Manufacturers NRESULTS Instrument Range N/A	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is45 Applied Doserate HY(0) 0.09 µSVh	mperature 24°C, Relative mated beam of gamma r tally with the beam norm 00 cps / uSv/h. Observed Reading 120 cps	Serial No: e Humidty 51%. radiation al to its front face. Meter Fluctuatio	199 on	
Detector: Reason: Conditions: Method: Orientation: CALIBRATION Applied Nuclide Background ¹³⁷ Cs	Generic 3" Na Annual recalit Atmospheric 1 The detector of The instrumer Manufacturers NRESULTS Instrument Range N/A N/A	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is 450 Applied Doserate HY(0) 0.09 µSvh 0.5 µSvh 0.5 µSvh	mperature 24°C, Relative mated beam of gamma r tally with the beam norm 00 cps / uSv/h. Observed Reading 120 cps 1640 cps 1490 cps	Serial No: e Humidty 51%. radiation al to its front face. Meter Fluctuatio	199 on	
Detector: Reason; Conditions: Method: Orientation: CALIBRATION Applied Nuclide Background ¹³⁷ Cs ¹³⁷ Cs	Generic 3" Na Annual recalit Atmospheric I The detector v The instrumer Manufacturers NRESULTS Instrument Range N/A N/A N/A N/A	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is 45 Applied Doserate HY(0) 0.09 µSv/h 0.5 µSv/h 1.0 µSv/h 2.5 µSv/h	mperature 24°C, Relative mated beam of gamma r tally with the beam norm 00 cps / uSv/h. Observed Reading 120 cps 1640 cps 3430 cps 8830 cps	Serial No: e Humidty 51%. radiation al to its ront face. Meter Fluctuatio	199 on	
Detector: Reason; Conditions: Method: Orientation: CALIBRATION Applied Nuclide Background ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs	Generic 3" Na Annual recalit Atmospheric I The detector of The instrument Manufacturent RESULTS Instrument Range N/A N/A N/A N/A N/A N/A N/A	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is 45 Applied Doserate HY(0) 0.09 µSv/h 0.5 µSv/h 1.0 µSv/h 5.0 µSv/h	mperature 24°C, Relative mated beam of gamma r tally with the beam norm 00 cps / uSv/h. Observed Reading 120 cps 1640 cps 3430 cps 8830 cps 16800 cps	Serial No: e Humidty 51%. radiation al to its ront face. Meter Fluctuatio	199 on	
Detector: Reason; Conditions: Method: Orientation: CALIBRATION Applied Nuclide Background ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs	Generic 3" Na Annual recalit Atmospheric I The detector of The instrument Manufacturent RESULTS Instrument Range N/A N/A N/A N/A N/A N/A N/A N/A	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is 450 Applied Doserate <i>H</i> Y(0) 0.09 µSv/h 0.5 µSv/h 1.0 µSv/h 5.0 µSv/h 7.5 µSv/h	mperature 24°C, Relative mated beam of gamma r tally with the beam norm 00 cps / uSv/h. Observed Reading 120 cps 1640 cps 3430 cps 8830 cps 16800 cps 24200 cps	Serial No: e Humidty 51%. radiation wal to its front face. Meter Fluctuation	199 on	
Detector: Reason; Conditions: Method: Orientation: CALIBRATION Applied Nuclide Background ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs ¹³⁷ Cs	Generic 3" Na Annual recalit Atmospheric I The detector of The instrument Manufacturers NRESULTS Instrument Range N/A N/A N/A N/A N/A N/A N/A N/A	al bration. Pressure 1009mBar, Te was positioned in a colli nt was mounted horizon s stated sensitivity is 450 Applied Doserate <i>H</i> Y(0) 0.09 µSv/h 0.5 µSv/h 1.0 µSv/h 5.0 µSv/h 10 µSv/h	mperature 24°C, Relative mated beam of gamma r tally with the beam norm 00 cps / uSv/h. Observed Reading 120 cps 1640 cps 3430 cps 8830 cps 16800 cps 24200 cps 31200 cps	Serial No: e Humidty 51%. radiation nal to its front face. Meter Fluctuatio	199 on	

Caliburated Day	Approved Put
Calibrated By:	Approved by:
Notes:	
 Ambient dose equiva 	ant H*(10) rates are derived from measurements made by a dosemeter calibrated at the NPL, and assume that

- an air kerma of 1 Gy = 1.2 Sv for 137 Cs, 1.15 Sv for 90 Co and 1.74 Sv for 241 Am. The uncertainty of H*(10) rates 2 µSw/h and higher is ±3%, below 2 µSw/h is ±6% and background is ±10%. The uncertainty in the H*(10) rate from 241 Am is ±5%. The uncertainty associated with temperature is 0.09% and pressure is 0.07%. The reported expanded 2 H*(10) rate from ""Am is ±5%. The uncertainty associated with temperature is 0.09% and pressure is 0.07%. The reported expander uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 55%. The uncertainty evaluation has been carried outlin accordance with UKAS requirements. The readings quoted are eye averages observed after the detector has been exposed for a period sufficiently long to enable it to
- 3.
- reach equilibrum. If the fluctuation of the observed reading was greater han ±10% of the average reading, then he minimum and maximum observed 4. readings have been stated. Before using he instrument the user should be familiar with its characteristics (energy dependence, directional dependence, etc.).
- 5. Such information may be obtained from a type test report. The calibration was done on the date of issue of the certificate. The instrument meets the requirements of GPG 14 and is satisfactory for use. This calibration used the following software; GammaCal.exe: v1.9.13 Profile:
- 6.
- 8.

This certificate is issued in accordance with the laboratory accrecitation requirements of the United Kingdom Accreditation Service. It provides tracability of measurement to ecognised national standards, and to units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. This Certificate may not be reproduced other than in full, encept with the prior writen approval of the issuing laboratory.



Document Ref. 72618/TR/002 Issue 2 Page 13 of 17

7.2 Areas monitored on site plan – F01-T011 and F01-T012





Document Ref. 72618/TR/002 Issue 2 Page 14 of 17

7.3 Areas monitored on site plan – F02-T005 and F02-T004





Document Ref. 72618/TR/002 Issue 2 Page 15 of 17

7.4 Areas monitored on site plan – S03-T021 and S03-T015





Document Ref. 72618/TR/002 Issue 2 Page 16 of 17

7.5 Areas monitored on site plan -S03-T004 to S03-11 and S03-T023 toS023-T027





7.6 Survey Sheets from 18/8/14-12/9/14 and lorry monitoring 26/8/14 -9/9/14 2014

HIVID

Radiation & Contamination Survey Report Health Physics

Name Balleting: G.C. Curtoric Maximum Barleting: Barleting: G.C. Curtoric Pare Barleting: Curtorics Barleting: Barleting: <th< th=""><th>(JJD)</th><th></th></th<>	(JJD)	
New Holdstrigting: O.E. Consult: Mart Designation (H, M, L) Hartuments Result Martuments (H, M, L) Martuments Result Martuments (H, M, L) Martuments Result Survey Type (lob) Propriet Result Propriet Propriet Propriet <td></td> <td></td>		
New 1 Building O.E. Curvur, L. Area Dargnation Heard Rafter (not) Survey Type (lob) Texturents Survey (lob) Texturents Weiter Portunities Cornoniosi Requestion Requestion Requestion Requestion Requestion Weiter Portunities Survey Used Requestion Requestion Requestion Requestion Requestion Return Level Survey Details Survey Details Requestion Requestion Requestion Requestion Requestion Return Level Survey Details Survey Details Requestion Requestion Requestion Requestion Requestion Survey Details Survey Details Requestion Requestion Requestion Requestion Remotion Remotion Remotion Survey Details Survey Details Reference Remotion Remotion Remotion Remotion Remotion Remotion Survey Details Survey Details Reference Survey Details Reference Remotion Remotio		
New Houlding: G. E. Octuvic. Ana Designation (H. M. L) Haung (H. M. L) Burning (H. M. L) Page (H. M. L)	Commen de Commen	
Number Building: G. C. CM. L. Area Designation Hazard Fainer: Survey Type (Icid) Instruments Social No. Point Point Exc.scol Number Supervised Controlled (H, H, L) Routine Social No. Point Recta Stream Supervised Controlled Recta Stream Supervised Controlled Recta Stream Social No. Point Recta Stream Social No. Supervised Containination Amm/noclean Exc.scol No. Social No. Recta Stream Social No. Supervised Containination Amm/noclean Exc.scol No. Social No. Recta Stream Supervised Containination Containination Amm/noclean Exc.scol No. Social No. Supervised Supervised Containination Containination Containination Exc.scol No. Social No. Supervised Supervised No. Supervised Containination Exc.scol No. Social No. Supervised Supervised No. Supervised Social No. Social No. Social No. Supervised Supervised Supervised Social No. Social No. Social No. Social No. Supervised Supervised <td></td> <td></td>		
West 1 Building: G. Cortwold Heard Flang: Burvey Type (100) Interments Exc.ecol Nat. Res Point Res Controlling (H, M, L) Request Rescale (100) Interments Point Controlling (H, M, L) Rescale (100) Rescale (100) Interments Point Controlling Controlling (H, M, L) Rescale (100) Rescale (100) Point Controlling Controlling (H, M, L) Rescale (100) Rescale (100) Point Supervised Rescale (100) Rescale (100) Rescale (100) Rescale (100) Survey Details Survey Details Rescale (100) Rescale (100) Rescale (100) Survey Details Survey Details Rescale (100) Rescale (100) Rescale (100) Survey Details Survey Details Rescale (100) Rescale (100) Rescale (100) Survey Details Survey Details Rescale (100) Rescale (100) Rescale (100) Survey Details Survey Survey Rescale (100) Rescale (100) Rescale (100) Survey Details Survey Survey Rescale (100) Rescale (100) Rescale (100) Survey Details Survey Survey Survey Survey Rescale (100)	Serial No.	- Removed
Word Building R.E. Oct-Mic. Area Designation Hazard Flaing: Survey Type (106) Instruments Piper. Survey Vacue: Survey Vacue: Survey Vacue: Survey Vacue: Survey Vacue: Instruments Contrained Recurrent Science Survey Vacue: Survey Vacue: Survey Vacue: Survey Vacue: Survey Vacue: Instruments Contrained Recurrent Science Survey Vacue: S		
New Building: C. E. OLLANDER Ana Designation Hazad Rafreg. Survey Type (lids) Instance Proof: Pool: Repeating: Survey Type (lids) Instance Proof: Pool: Repeating: Survey Type (lids) Instance Proof: Pool: Repeating: Survey Details Survey Type (lids) Instance Proof: Repeating: Non-Does Contraministion Alammetion Alammetion Research Research Survey Details Survey Details Research Research Research Research Survey Details Non-Does Contaministion Direct Research Survey Details Non-Does Contaministion Research Research Research Survey Details Non-Does Contaministion Research Research Survey Details Non-Does Contaministion Non-Does Contaministion Research Research Survey Details Non-Does Survey Non-Does Research Research Survey Survey Survey Research Research Research Survey Survey Survey Research Research Research Survey Survey	truments	Commen
Ward Building: CR.E. Currents Area Designation Hazard Faulty: Survey Type (tok) Poloci: Poloci: Polocitication Hazard Faulty: Survey Type (tok) Poloci: Poloci: Polocitication Hadiation L Poloci: Polocitication Statistication Hazard Request Poloci: Polocitication Polocitication Hadiation L Poloci: Polocitication Polocitication Hadiation L Poloci: Polocitication Polocitication Polocitication L Poloci: Polocitication Polocitication L Polocitication Contamination Poloci: Polocitication Polocitication Polocitication Polocitication Polocitication Poloci: Polo		rvisor's (Insatisfactor
MNMMT Building: G.E. OCHMAL Area Designation Hazard Rating: Survey Vy reyed: PRACK SANNINK Controlled (tick) reyed: PRACK SANNINK Controlled (tick) reyed: PRACK SANNINK Supervised Readiation reyed: PRACK SANNINK Supervised Readiation In Multicide Controlled Reveal Scottered Supervised Readiation In Multicide Contramination Low Supervised Readiation In Multicide Contramination Low Supervised Readiation Readiation Readiation Christian Low Soot Supervised Readiation Readiation Readiation Christian Radiation Low Supervised Readiation Readiation Readiation Christian Radiation Low Supervised Supervised Readiation Readiation Christian Supervised Supervised Supervised Supervised Readiation Readiation Christian Supervised Readiation Low Contamination Contamination Christian Supervised Supervised Supervised Supervised Readiation		HP Supe
MAXT Building: G.E. OCHMAL Area Designation Hazad Rating: the Disc. Hazad Rating: (idd) Hazad Rating: (idd) Hazad Rating: Reading (H, M, L) Reading (H, M, L)	Survey Ty Survey	ea e
WANY Building: Q. C. OLUMIC Area Designation Hazard Fatimerick Meyod: PORK SAMADINIA Controlled [14, M, L] Meyod: PORUM Supervised [16, M, L] Meyod: PORUM Supervised [14, M, L] Meyod: PORUM Supervised [14, M, L] Meyod: PORUM Supervised [16, M] Meyod: PORUM Supervised [16, M] Meyod: PORUM Meyod Supervised [16, M] Meyod: PORUM Meyod [16, M] Meyod Meyod: Meyod Survey Defailing [16, M] Meyod: Meyod Survey Defailing [16, M] Meyod: Meyod Meyod [16, M] Meyod Survey Defails [16, M] [16, M] [16, M] Survey Defails [16, M] [16, M] [16, M] Survey Defails [16, M] [16, M] [16, M] Ment All Survey [16, M] [16, M] Ment All Maxue [16, M] [16, M] Ment All Survey [16, M] [16, M] Ment Maxue </td <td></td> <td>Probe or Sm</td>		Probe or Sm
WINNY Building: Q. E. OLYMALL Area Designation MYANY Building: Q. E. OLYMALL Area Designation Meyed: PODELLINE Meyed: PODELLINE Mercial GELIGEN Sopervised Mercial GELIGEN Sopervised Mercial GELIGEN Non-Des Errie Jumal Supervised Mercial GELIGEN Non-Des Errie Jumal Survey Details Main Survey Details Main Mercial Jume Survey Line Sopervised Survey Line Sopervised Survey Line Sopervised Main Mercial Jum Main Mercial Jum <td>D C Le L</td> <td></td>	D C Le L	
WOMT Building: Q.E. OCHMIC, Area Designation 4. PROL SAMPLINING Controlled Active Generation Controlled Active Generation So3-TO27 Non-Des Aria So3-TO24 Supervised Aria So3-TO24 Supervised Aria So3-TO24 Supervised Aria Supervised Aria So3-TO24 Supervised Aria Supervised Aria Decinic Supervised Aria Supervised Aria Decinic Supervised Aria Supervised Sign: Aria Supervise		b: Sitent Kground
WORT Building: Q.E OLYMAL Area H. PROK SNADININ Contro Revoid: PODIUM LEVEL SUBORN MCHICIN GEALERY SOG-TOZH STATT FARE HIMMER SOG-TOZH STATT RAGE AMAUNT OF SPONS SURVEY DETAILS SURVEY	Designatio	Sign Date Date Retained by 0
WAT Building: Q.E. OLIMAL Weyed: PODIUM LEVEL SMADIUM Revealed GEALERY SOG-TOZ AND SOG-TOZ AND SOG-TOZ AND SOG-TOZ AND REALES URVERBUIND SURVEY DERING ARGE AMAUNT OR SOULS ARGE AMAUNT ARGE	Area	bonated Copy
WOAT Building: Q.E. OL LEVEL SANDININ REVECT REALED SO REVEL BANDARI SO REVEL WAND SON ME SURVEY DETAI SURVEY DETAI SURVEY DETAI SURVEY DETAI SURVEY DETAI SURVEY DETAI SURVEY DETAI SURVEY	123-102 13-102 13-102 13-102 13-102 10-10	Yellow Ca
Werden Building: G Preventi Building: G Preventi Building: G Preventi Building: C Preventi Building: C Preventi Building: C Prevention Building:	Detail Sullation	ntysics Symbol Cc
Veyed: D Veyed: D Vey	Pre- Server	by Print: n: Misor Siç ^{py to Heath P}
	Perfection of the manual of th	mpleted visor Sig mile Prime Co lissue B
Alter Solution of the second s	A C C C C C C C C C C C C C C C C C C C	H Survey co HP Super RPS or Ar TRBUTION - V

K- Known

t s			
DOI hysid			
y Re Health Pl	Bgd. PO CRU PU S PU S PULS PU		
Surve			d and Marked
tion			‡ R - Remove FM - Fixed a
mina	Turments	comments:	
onta		ipervisor's C	S - Unsatisfactory - satisfactory Known
8 2 2	e e contamir e Contamir By Contamir By Contamir Co	NS dH	: 20,27
ation			Probe or Smear
Radi	Hazard Ratir adiation ontamination See units) adiation mSwh mSwh mSwh		•
	Badiation Badiation	Sign: Date: Date: Ined by Client	ent Background
	Area Des (ticl (ticl (ticl (ticl (ticl (ticl (ticl (ticl (ticl (ticl (ticl (ticl (ticl) Supervised Start Time Survey No Supervised	onated Copy Reta	· Instrume
	ALLE ACANT	Yellow Cart	Comments
/IA	The Strength of the strength o	Print: Dr Sign: Health Physics	Symbol
5	AT Buildi	npleted by F sor Sign: a Supervisc	sue B
0	P. P B 14 Area Survey Area Survey Ar	Survey con HP Supervi RPS or Are	HPCF/30001 - Is

. .

	Hadia	tion & Contam	Ination Survey Report Health Physics	
ACTINA Building: Q.E. OLYMOR	Area Designation Hazard Rating: (fick)	Survey Type (tick) Instrume	ents T Serial No. Pre Bgd* Post Test Test	
Hed PODIUM ENT	Controlled (H, M, L)	Routine	2 80 CBC 1 19 19 19 19 19 19 19 19 19 19 19 19 1	
ACH MINDLE TO26	Supervised Radiation Non-Des	Alarm/Incident	All 2061 / 1943 / 10065 / 10065	· · ·
10-1 AT FOI - TOIZ	Start Time: 0800	Other	242 930 V 0.1m2112	
Survey Details	Hadiation (circle units) μSv/h βγ γ η	$\begin{array}{c c} \hline & \hline & Contamination \\ \hline & CPS \\ \hline & & Bqcm^2 \\ \hline & & & B\gamma \\ \hline & & & & B\gamma \\ \hline \end{array}$	Por Ror S S ↑ K···	
CAMPIONS CONCETTOS AT			ALL RENARS	
Exchanced (Four white)				
HCH BENJEN Sol TO26 Sol TO23 Ercol Mod				
sportes suppresent	250-220			
mpleted by Print: visor Sign: ea Supervisor Sign: Wille Prime Copy to Health Physics	Sign Date: Date: Date:	HP Supervisor's Com	ments:	
Issue B Symbol Comments	 Instrument Background 	be or Smear U/S - Unsatisfactory S - satisfactory K- Known	‡ R - Removed FM - Fixed and Marked	

.

UVIA Radiation & Contamination Survey Report	Building: Q.E OLYMOL Area Designation Hazard Rating: (tick) Survey Type (tick) Instruments Serial No. Pre Bgd" Post P. AL (tick) (tick) (H, M, L) Routine Serial No. Pre Bgd" Post P. AL Same Num Controlled (H, M, L) Routine ELESCA/ MAT Read 18:C CRs 18:C P. AL Supervised Radiation H. M. L) Request Mini Nov/Lut K Case Last C 18:C CRs 16:C P. Nous ELESCA/ MAT Read Contamination Alarm/Incident Request Mini Nov/Lut K Case Last C 1 5 2 P. Source Source Source Contamination Alarm/Incident Alarm/Incident Alarm/Incident Alarm/Incident Alarm/Incident Alarm/Incident Alarm/Incident 2 2 1 5 2 1 5 2 1 5 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 2	Survey Details $B_{\beta\gamma} = \frac{Survey No: (S_{\delta} \otimes A_{\delta}) (S_{\delta} \otimes A_{\delta})}{B_{\beta\gamma} = \frac{B_{\delta} \otimes A_{\delta}}{\beta} = \frac{B_{\delta}$	ED IN DUMUE RUCKS 150-200	Sterr Quer Sublering Whee 250-350	TO MH TOZZ	Success Success Success	ted by Print: Big Sign: Date: Date: Date: Date: Vellow Carbonated Copy Retained by Client Sign: Vellow Carbonated Copy Retained by Client	3 Symbol Comments • Instrument Background ◆ Probe or Smear • U/S • Unsatisfactory ‡ R • Removed S • satisfactory FM • Fixed and Marked
HNUN	Date: THURS Building: Q.E.C. 21-8-14 P.A.E. SAN Area Surveyed: PODIUM Leve P.P. TEATCH SCOVER RECOM	Survey Det	Suever Ream Arale	SPELLS STOR PLE SWE	N.PE-PENNEH & WENER P.PE-PENNEH & WENER TOZL TO MH TOZ	EXCANANC GUELET	Survey completed by Print: HP Supervisor Sign: RPS or Area Supervisor Sign: DISTRBUTION - White Prime Copy to Health Physics	HPCF/30001 - Issue B Symba

Alache of LOND 251 cfs Radiation & Contamination Survey Report Health Physics ddo Post Test * max Rodolug found <u>t</u>lr DU SIDO OF LOCAT 355 SU CS 200 -1 1 N Sulla ALL ROAD AL אמרושב בלב Bgd* General Comments: ۲+i 8 Pre Test $\overline{\mathbf{N}}$ 7 ‡ R - Removed FM - Fixed and Marked 51011 54550 3545 0124 2051/17/0 S'o st Serial No. 020 PAG ELECTRA NEI PLACE °, Se MUNMAL HIGH HP Supervisor's Comments: ELECRA/NOL Instruments CAS LINK ų Bqcm² Contamination ಶ Survey Type (tick) Alarm/Incident ξ CPS Request Routine Other Probe or Smear ъ ٢ Contamination Hazard Rating: mSv/h (H, M, L) ۴ Radiation Radiation (circle units) 250-450 00+00 ¥005 EIS/S Vellow Carbonated Copy Retained by Client Area Designation (tick) Date: Sigr Date h Sv/h SPOILS LO ROILS NEA ANJ STOLLDILE SUIVEY NO: Supervised Start Time: β Controlled Non-Des TPORCH MOUND ARRENTS ARON 12 MERES OF EXCINENCE 2 MERCES AREX RECORD 19 LOPPLES OF SPOILS (MPLON Services. Building: O.C. C. C. C. P.P. 720-144 GETNER , TO26 + 7023 18 TONS I A LEACH) SURVICE CO PARK STOPIUM Survey Details **NUVIA** TRUTCH SURVEYED RPS or Area Supervisor Sign: DISTRBUTION - White Prime Copy to Health Physics AND LATED TO26 to 1023 Poblum Survey completed by Print: HP Supervisor Sign: DEC 22 - S - Nt. Area Surveyed: Date: F2 ۶

U/S - Unsatisfactory
 S - satisfactory
 K- Known

Instrument Background

Symbol Comments

HPCF/30001 - Issue B

HIVUD

Radiation & Contamination Survey Report

Health Physics



Radiation & Contamination Survey Report Health Physics

HIVUR

H Building: כבי כראת ארב Designation Hazard Rating: Survey Type (tick) Instruments Serial No. Pre Bgd* Post Post 2004 Street Test	PONUM LEVEL Controlled (H, M, L) Routine <u>Exerced/MT (Kate 630/24138</u>) 190 cos Supervised Radiation L Request <u>Minial Mov/up C 036745</u> 100 7 8 cos Request <u>Non Non Des</u> W Contamination L Alarm/Incident <u>Exerced/NFT (Rote 630/24138</u>) 7 80 cos Start Time: 0600 Other <u>Non Won CAS 930</u> 7 00 1 8 to cos Survey No: con Municipal <u>Non CAS 930</u> 7 00 1 8 to cos	Survey Details $\frac{\text{Rot Survey Details}}{\beta \gamma \gamma \gamma \eta}$ $\frac{\text{Contamination}}{\alpha}$ $\frac{\text{Contamination}}{\beta \gamma}$ $\frac{\text{Por Bacm' Solution}}{\beta \gamma}$ $\frac{\text{Rot Survey Details}}{\beta \gamma}$ $\frac{\text{General Comments:}}{\beta \gamma}$ $\frac{\text{Contamination}}{\beta \gamma}$ $\frac{\text{Por Bacm' Solution}}{\beta \gamma}$ $\frac{\text{Rot Survey Details}}{\beta \gamma}$ $\frac{\text{Contamination}}{\gamma}$ $\frac{\text{Rot Survey Details}}{\gamma}$ $\frac{\text{Contamination}}{\gamma}$ $\frac{\text{Rot Survey Details}}{\gamma}$ $\frac{\text{Contamination}}{\gamma}$ $\frac{\text{Rot Survey Details}}{\gamma}$ $\frac{\text{Contamination}}{\gamma}$ $\frac{\text{Rot Survey Details}}{\gamma}$ $\frac{\text{Rot Survey Details}}{\gamma}$ $\frac{\text{Contamination}}{\gamma}$ $\frac{\text{Rot Survey Details}}{\gamma}$ $\text{Rot $	Mandell De Excelinad OF Mandell Now Aller Canib De (15M OF WINCH 15 Markun LAHUR)	Tealey Jum Jen 20-320	Red Z	Revert suederch	ed by Print:
שבי שישוקשיב אשווקוושב שבי כי	Area Surveyed: PODNUM LEVEL	Note Note Note Note Note Note Note Note	CENTRALIEN OF EXCAL ARONE TOWACH NOW AR	MH 26 TROTCH SUL	Store room Arola 7	EXCAN MOR QUENT EU	Survey completed by Print:

HPCF/30001 - Issue B

U/S - Unsatistactory
 S - satisfactory
 K- Known

Probe or Smear

Instrument Background

Symbol Comments

‡ R - Removed FM - Fixed and Marked

NUVIA	Radia	ition & Contami	nation Survey Report Health Physics
Date: Truces 4-1 Building: Q.C. OL-MALLE A 28 ANELLET 14- Prov. S.MARHAM COL Area Surveyed: PODIUM LEVEL SU P.R. TONCH GENACH SCITCLE SU	Area Designation Hazard Rating: (tick) (tick) (H, M, L) pervised Radiation U n-Des Contamination U rvey No: A 20 rvey No: A 20 r	Survey Type (tick) Instruments Routine ELECCEA Alarm/Incident ELECCEA Other ELECCEA Other ELECCEA	Serial No. Pre Bgd* Post Serial No. Test Bgd* Post Cost Test Image: Cost Image: Cost Cost Cost Cost Image: Cost Cost Cost Cost Image: Cost Cost Cost Cost Cost Cost Cost Cost Image: Cost Cost Cost Cost Cost Cost
CENTRALIN OF ATELE CERTRALINI OF ATELE EXCANATION 175 M APOCX (WWM) NOW CONTENS TRUNCH SURVERS	βy y η 250-3300	α βλ	St TW CLUDE Ba CONSI 151 INCLUDE Ba Ba
Slout Farm Mede Sueverin	28-320		
Survey completed by Print: HP Supervisor Sign: RPS or Area Supervisor Sign: DISTRBUTION - While Prime Copy to Health Physics Yellow Carbonated C	Sign: Date. Copy Retained by Client	HP Supervisor's Commer	its:
HPCF/30001 - Issue B Symbol Comments	 Instrument Background 	be or Smear ** U/S - Unsatisfactory S - satisfactory K- Known	‡ R - Removed FM - Fixed and Marked

AND

Radiation & Contamination Survey Report Health Physics

		ents:	sor's Comme	P Supervis	<u> </u>			ie: ie:	Da	1 by Print: gn: ervisor Sign:
							53	160-250		Surterios
										A DUN OF APLOX
PLESunt										M OF TRENCH Duc
X NO ACCESS TO								20057-	750	
										NOV TO26 TO TO 23
Creecuis										2 3 SWN OF TRUNKINA
AL REMARKS INCLUDE	×°×	• 0	By	8	βγ	ø	ŧ	λ	I	
General Comments:	Ror U/S	Por	3q/cm ²	tamination E	CPS Cont		nits) m8w/h	tion (circle u	Radia µ 8 ₩ħ	urvav Dataile
C I PANK	930	0	MINH 2N		er	Gt		3/32	art Time: Irvey No:	20124 Fe2 Tees 1 SI
ZXOI Stuces	E4-11 190	6	SIECOA S		m/Inciden	Alar	amination L	Conta	on-Des	BENER SOITOLE N
Zeo cer 7	6310 2436	Prac.	TAN MOLT		itine juest	Red	ation 1	Radi	Introlled	CONTRACTION CO
Pre Instrument Post Test background Test	Serial No.		Instruments	(tick)	urvey iype	n	H M I)	Пал	(tick)	PRENE SNAKEN

Registered Office: Nuvia Limited, Kelburn Court, Daten Park, Risley, Warrington WA3 6TW Registered in England No 2053786 Tel: 01925 858200 Fax: 01925 811866 Email: Info@nuvia.co.uk www.nuvia.co.uk

Health Physics Radiation & Contamination Survey Report



HNUN

Radiation & Contamination Survey Report Health Physics

Post Test	2222									
Bgd*	200 ces 9 cer Xeri fitter 0 1 múilte	omments:								
Pre	<u>ב</u> קקק	Beneral C	35							arked
Serial No.	310/24-38 3674/245/245 1305/125	T ^H A M M M M M M M M M M M M M M M M M M M								: R - Removed FM - Fixed and Ma
s	Level of C	P or ● or		+			0		ents:	
Instrument	ELECCA/4AT	Bqcm ² By							visor's Comme	isatisfactory factory m
(tick)	C <i>Z</i> OCI	atamination							P Super	•• U/S - Un S - satis K- Know
urvey Type	ine lest n/Incident r	Col By					ן פ י לי	ļ	<u> </u>	
s	Requ	8			 		0	-		oe or Smear
trd Rating:	M, L)	s) mSv/h				' '		.		♦ Prot
Haza	Contam	Circle unit	300	89 9	8	300	-200			pur
ignation <)		Badiation —	250	8	9	8	B	· · · · · · · · · · · · · · · · · · ·	Sign Date: Date:	nt Backgrou
Area Des (ticl	ontrolled upervised on-Des tart Time		 iii	 	· · ·	E			d Copy Retai	 Instrume
Parce	Sour Sour	Voirs o	. F	21504	5002	South	ちちって		ow Carbonate	ţs
そうろう	000	tails	1 0 0	MENLY RENLY	CARIO		3			ol Commer
9: ØC	LEV DZ	ey De	1-W02	PLOTI	L'ale	203	NC K		int: Sign: ^{ath Physics}	Symb
Buildin	P. P. P.	Surv	50	ADT ONLY	slow	A CA	305		ed by Pr Sign: pervisor e copy to He	
UEDA)	D2 00	9701 0	1020	Pouls WESE S	JA-KO	Sura			Area Su	11 - Issue B
Date: T	Area Su FIL	2 # 			<u>ע</u> ני			·	Survey HP Sup RPS or	HPCF/3000

the second se

.

HIVID		Radiatic	on & Conta	minat	ion Sur	Vey Rel Health Pl	port hysics
Date: Hugh Evilding: QE CHARLE 2 Seltandor ILL PARY STADIUM C Area Surveyed: PODIUM LEVEL OS TREACH SI	Area Designation (tick) Controlled Supervised Co	Hazard Rating: (H, M, L) R adiation C A	Survey Type (tick) Inst outine E.E.C.	ruments r N NAAT Road	Serial No. P 5 6 10 10 10 10 10 10 10 10 10 10 10 10 10	e Bgd.	
503 7026 70 503 702 20 700 20 20 20 20 20 20 20 20 20 20 20 20 2	Start Time: Survey No: βurvey No: By βγ γ	e units) e units) mSv/h ∞	ther the state of	Ar CAS By Por	Ror Sener FM S Gener	al Comments:	
FUOLOGU TO FUOLOS PLOYCH SULVENCE AFTOR EXCALATURA	700-78	0			· · · · · · · · · · · · · · · · · · ·		
FLAL THE SULVERED TO RALINE SOL TO	8	a					
SPOILS ROM FULLACE SALOZI TO SO3 TOOL POOLA SURJETES	10						
	· · · · · · · · · · · · · · · · · · ·						
Survey completed by Print: HP Supervisor Sign:	Sign Date.		HP Supervisor's C	omments:			
RPS or Area Supervisor Sign: DISTRBUTION - White Prime Copy to Health Physics Yellow Carbonated	Date: ed Copy Retained by Client	-					
HPCF/30001 - Issue B Symbol Comments	 Instrument Background 	 Probe or Srr 	hear U/S - Unsatisfactory S - satisfactory K- Known		: R - Removed FM - Fixed and Marked		

I

Radiation & Contamination Survey Report

HIVUI

Proverty Building: QC OLIVIA	vrea Designation Hazard Rating: (tick)	Survey Type (tick)	Instruments	Serial No.	Test bgd"
veyed: Romm Level Co	ntrolled (H, M, L)	Routine	אין שאיז איז	ar 6310/20	128 J 150 C05
SO3 TO23 Excarana No			ELECTON DPA	2061/191	T Koi BS ogs
0 TO SOIT UOL TREACH SI	trt Time: 0800 rvey No: 6/6 25	Other	AN IT IN	930	0.1 produce
Survey Details	Badiation (circle units) μSv/h Control mSv/h βγ γ η	Contaminati c CPS Contaminati	n Bqcm² Po	T A A A A A A A A A A A A A A A A A A A	General Comments:
MXSMXSM MM EXCANTED					ALL LENDING . MELLUD
KCALARION LEMLETOS ALCA WLIETOS 10 TO 503 TOOL	768 - 360 - 260 - 260 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
completed by Print: ervisor Sign: Area Supervisor Sign:	Date:			:	

HPCF/30001 - Issue B

Instrument Background
 A Probe or Smear

U/S - Unsatisfactory
 S - satisfactory
 K- Known

‡ R - Removed FM - Fixed and Marked All Research and a later of the second

HIVUL

Radiation & Contamination Survey Report Health Physics

Survey Type (tick) Instruments Serial No. Pre Bgd [•] Pc Routine Bgd [•] Fa Routine Ever-cal Na5 Roate LSto Zurste Zoo c85 E Request Minut Costa Fuck Costa Fuck C o 1 k w 4 P cus C Alarm/Incident Costa Public Cost 196 2 cost 198 2 cost 196 2 co	Contamination CPS Contamination α $\beta\gamma$ α $\beta\gamma$ α $\beta\gamma$ α $\beta\gamma$ α $\beta\gamma$ α α $\beta\gamma$ α α $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$ $\beta\gamma$					9 or Smear ** U/S - Unsatisfactory S - satisfactory FM - Fixed and Marked
rea Designation Hazard Rating: (tick) (H, M, L) introlled (H, M, L) Dervised Radiation C -Des (Contamination C rt Time: Caco	Radiation (circle units) μSv/h and mSv/h βγ γ η		250-148		Date: Date: Date: opy Retained by Client	Instrument Background
RELEAST Building: QE OLIMAL An REMINISERIY RAPE STATUM CON I SURVEYED: PODIUM LEVEL SUPE M SO3 RE3 TO SO3 221 SUP	Survey Details	APPLICE 7 M & TLOKH DUC BENEDY SOSTORS TOWALD SOTTOR!	TRANCH SUBJENED AFTER EXCMANION SPOILS SURVENED	SPILE LATIANUN ALA TIMUS BY EXCANATOR WINNE ACEBURE SPOILS SURVENERS	Supervisor Sign: Sor Area Supervisor Sign: VTION - White Prime Copy to Health Physics Vellow Carbonated Co	30001-1ssue B Symbol Comments • In

The second second

HIVUR

Radiation & Contamination Survey Report Health Physics

Date: MONDA- Building: QE OCHWAC	Area Designa	ation Hazard Rating:	Survey Type (ti	ck) Instruments	Serial No.	Pre	Bgd* Po	st
8 SETENAR 14 PARK SNOWING Area Surveyed: ADVING WEVEL	Controlled	(H, M, L)	Routine	ELECTER/MAI (20	K 6310 2436		ະ ອີ ອີ	
Genter I why see and a second	Supervised	Radiation	Request	Mud may little	101 SHE920			
Should University Alera	Start Time:		Other	MINI LAD	2001 1967	- 0 	1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	
Survey Details	Survey No: Rac LSv/h	diation (circle units)	Contai	mination	or Ror U/S	General Comm	ents:	
an vey betalls	۲đ	Γ	αβγ	α βγ δ	•	ALL REN	shes recurse	LA.
SPOUS SURVEYED AS LONDIED					: 	5/3		
Alley I' MERCES CONCETTS	KOCH	200-300						
		-						
Store Automatic Star	le ten							
UNDE PORCELC				-				
		-						
					- - - -			
					·			
		-						
Survey completed by Print:		-10	H	Supervisor's Comments:				
HP Supervisor Sign:		aie:						
RPS or Area Supervisor Sign:	De	ate:						
DISTRBUTION - White Prime Copy to Health Physics Yellow Cart	bonated Copy Retained b	by Client						
HPCF/30001 - Issue B Symbol Comments	 Instrument B 	ackground Probe	e or Smear	U/S - Unsatistactory S - satisfactory	t R - Removed FM - Fixed and	Marked		

S - satisfactory K- Known

HIVUI

Radiation & Contamination Survey Report

Date: Tueso 4-1 Buil	ding: שב מרא איר לאצר	Area Designat	Ion	zard Rating:	Survey Ty	/pe (tick)	Instruments	Serial No.	Pre	Bgd*	Post
A Soft 14 25 Area Surveyed: Po Di	ADILLAN LEVEL	(nick) Controlled Supervised	Badia	(H, M, L)	Routine Request		ELECTOR MAIRS	101/ ST-1950		2.30 CK	
Shine warbour	57023 + 503 T021	Non-Des Start Time: Survev No:	Conta CHON	Imination	Alarm/Incide Other	and the second second	MILL LA	2061 (1767 930		1 6 4 cer	
Su Su	rvey Details	Radi μSv/h βγ	ation (circle u	nits) mSv/h n	B 0 ~ ~	Contamination	Bqcm [°] Bqcm [°] By	Por FMor t Mor Sor S*	General Comm	nents:	
Slaws Flam	MH 803723 70 503 Th	27	230-500						2		201
1 Figor of	DADS OF SPOILS		200-290			<u> </u>					
						·			-1		
								· · · · · ·			
Survey completed by HP Supervisor Sign: RPS or Area Supervis	Print: Sor Sign: Peteutin Physics Yellow Carboo	Sig Dat Dat Dat	D Client			HP Super	visor's Comments				
IPCF/30001 - Issue B	Symbol Comments	 Instrument Ba 	ckground	 Probe o 	r Smear	** U/S - Un S - satisf K- Know	tsatisfactory factory m	‡ R - Removed FM - Fixed and	J Marked		



Radiation & Contamination Survey Report

Date: NEDNESDAY Building: De our C	Area Designatio	on Hazard Rating:	Survey Type (tick)	Instruments	Serial No.	Pre E	Bgd* Post Test	
Area Surveyed: PODIUM LEVEL	Controlled	(H, M, L)	Routine	ELÉCORYNAI PRE	197/2456	5 7 7	S CEV	T 1
MU 503 7023 FO 5037021	supervised Non-Des		Alarm/Incident	ELECTOR / DPL	2060 (1767	s s s	S S ck	1
spars have and apen	Start Time: Survey No:	0800 Blb 29	Other	MINI CAD	9:0	× 0 1	Selling.	
No Survey Details	Radia μSv/h βv	circle units)	CPS Contaminal	tion Bqcm [°] Por S∳	Ror FM t SS K*	General Commen	its:	
WAY KOJER SURVEY OF SPOILS		-			 	a/e		
Remark AFEA Farmante		8				[
MIN SOJ TOLI MEA SUBERCD		60 - 25 0						
		<u>}</u> } } 	 .	· · ·				
FINAL PAGE OF TOSSEN EXCANN	8-							
SPOILE SUCHERICA		200-300						
EXCANAGE GUERETS SURVER			1.1 A - 6 cg		<u>9</u>			
	-+							
Survey completed by Print: HP Supervisor Sign: RPS or Area Supervisor Sign: DISTRBUTION - While Prime Copy to Health Physics Vellow Carbon.	Sigradian Sigrad	e: 9: Client	HP Sup	ervisor's Comments:				
HPCF/30001 - Issue B Symbol Comments	 Instrument Bac 	kground	or Smear ¹¹ U/S - S - Si K- Kr	Unsatisfactory atisfactory iown	‡ R - Removed FM - Fixed and	Marked		

- - - - - - -

HIVU

Radiation & Contamination Survey Report

Berial No. Pre- Test Bgd* Post Ref 7 22.0 CP Altitude 7 8 7 Altitude 8 8 8 Altitude 8 8		panoreau H
y Type (tick) Instruments Cident ELECCA NAT (COLE NAME NOW NOW A Contamination By By Contamination By Contamination		HP Supervisor's Comments:
esignation Hazard Rating: Surversion Hazard Rating: Survertick) definition (H, M, L) Routine ed definition (H, M, L) Request ed definition (H, M, L) Request ed definition (Circle units) (H, M, L) CPS		Date: Date: Laned by Client ment Background ◆ Probe or Smear
(e. Thuckon Building: ecound Rev Area Discreted: Building: ecound Rev Area Discreted: Scription Scription a Surveyed: Reduced: A 3 = 3 TO 21 Non-Des NH So 3 TO 21 NH So 3 TO 21 <td>SPOILE AT LANDOWN REAL SURVEYCH AT LANDOWN REAL SURVEY SOUTHING SPOILE SWUTTING SPOILE SWUTTING</td> <td>rvey completed by Print Completed by the Print Completed by Print Completed by</td>	SPOILE AT LANDOWN REAL SURVEYCH AT LANDOWN REAL SURVEY SOUTHING SPOILE SWUTTING SPOILE SWUTTING	rvey completed by Print Completed by the Print Completed by

HPCF/30001 - Issue B

U/S - Unsatisfactory
 S - satisfactory
 K- Known

‡ R - Removed FM - Fixed and Marked

HNUN		Ba	Idiat	ion & (Contamir	natic	N N	urvey H	/ Rep ealth Ph	ort ysics
Date: Flidary Building: de armic 12 seot 14, Park Smanum Area Surveyed: Podium Levél	Area Designa (tick) Controlled	tion Haza	rd Rating: , M, L)	Survey Type (tic Routine	k) Instruments	S SS	erial No.	Pre Test	Bgd [*]	Post Test
mly sostozi to mly sostoig to mly sostois	Supervised Non-Des Start Time:		ination	Request Alarm/Incident Other	ELECTER OPP	2001	6 11000	V V V	CCS CCS	
No Survey Details	Have Bay	Jiation (circle units	s) mSv/h	CPS Contar CPS Contar	nination α Bqcm² α βγ	Por S∳ FM	SN 2 SN 2 S	eneral Comme	ents:]
Contruction of trench (Gendeen with sostori tr Mith sostoria slour sull	LCNANIN S	250 - 300								
Stratement of mith SO37 SPOILS SUBJENCO	SIO	220-240								
WALKAKE SURVEY OF CON WOLL GENJEEN SO37027 SO37021	Pr +	220 - 2 6 0	· ·							
ENLANMOR QUICKER SUBJ	ct cs		0	6		a				
The of there you excant BETHED MY SOS TOZI &	Chi-H									
John Sulland		350-400								
Survey completed by Print HP Supervisor Sign: RPS or Area Supervisor Sign: DISTRBUTION - White Prime Coov to Health Physics	Signation Carbonated Coov Retained b	Jn: tte: tte: volient			upervisor's Commen	;	_			
HPCF/30001 - Issue B Symbol Commen	ts histrument B	ackground	 Probe or 	Smear	J/S - Unsatisfactory 5 - satisfactory	+ + - H - H	Removed Fixed and Ma	ked		

K- Known


ł

-

Appendix 3 - Lorry Monitoring Form

Lorry Registration Number	EU14 KTJ
Transfer Ticket Number	49272

CPS	180	200	200	200	180	
						Average CPS Including Background for the Load:
CPS	170	160	200	180	180	

Ground Hog Serial Number:	6310/2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I Merte
Surveyor name and signature:	
Date:	22 8 4
Time:	0755
Comments:	BELOW MALLOR STOLLS



Lorry Registration Number	QF61 MWX
Transfer Ticket Number	49858

CPS	190	190	180	200	200	
				Average CPS Including Background for the Load:		
CPS	170	190	180	180	185	

Ground Hog Serial Number:	6310/2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	0.0.55
If average cps < 300 NET cps = PASS	P.1452
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	OI MSVIL
Surveyor name and signature:	
Date:	22/5/14
Time:	0800
Comments:	BELOW MORNINg SPOILS







Average CPS Including Background for the Load:

.

184

CPS 190 200 190 180 18)
------------------------	---

Ground Hog Serial Number:	6310 2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	(ASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	OINSIT
Surveyor name and signature:	
Date:	22 8 14
Time:	0510
Comments:	BELOW MORE SPORT







Average CPS Including Background for the Load:

i

188

Ground Hog Serial Number:	6310/2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O. I m Svilti
Surveyor name and signature:	
Date:	22/8/14
Time:	0820
Comments:	BELOW MARILOR SPOILS



÷

ł

Appendix 3 – Lorry Monitoring Form

Lorry Registration Number	GF61 MWX
Transfer Ticket Number	49859

CPS	200	190	190	200	210	
						Averag Includi Backgr for the
CPS	190	200	210	190	190	

e CPS ıg ound Load: Ŧ

Ground Hog Serial Number:	6310 2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932_
If average cps > 300 NET cps = FAIL	<u> </u>
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	on passite
Maximum dose rate:	O. I. MSULS
Surveyor name and signature:	
Date:	22/8/14
Time:	0940
Comments:	BROW MARKUR SPOILS



;

Appendix 3 – Lorry Monitoring Form

Lorry Registration Number	EN14 KTJ
Transfer Ticket Number	49273



Average CPS Including Background for the Load:

207

CPS 190	200	220	200	200
---------	-----	-----	-----	-----

Ground Hog Serial Number:	6310 2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O. I MSVILT.
Surveyor name and signature:	
Date:	22/8/14
Time:	0945
Comments:	Balan MARICA SPOILS





CPS	200	220	190	200	200	
						Average CPS Including Background for the Load: 198
CPS	180	210	200	190	190	

Ground Hog Serial Number: 6310 2438 Background cps; 180 **Dose Rate Instrument:** MINI RAD Serial Number: 932 If average cps > 300 NET cps = FAIL PASS If average cps < 300 NET cps = PASS Wheel contamination survey completed if vehicle has entered supervised / contaminated area: Maximum dose rate: 0.1 mails Surveyor name and signature: Date: 22/8/14 Time: 0955 Comments: BELOW MARKUN SPOILS





CPS	190	190	180	200	190		
CPS	180	200	210	190	190		

Ground Hog Serial Number: 631012438 Background cps: Dose Rate Instrument: MINI RAD Serial Number: 932 If average cps > 300 NET cps = FAIL PASS If average cps < 300 NET cps = PASS Wheel contamination survey completed if vehicle has entered supervised / contaminated area: Maximum dose rate: O.I MSULT Surveyor name and signature: Date: 22/8/14 Time: 1005 Comments: BEDW MARKOR SPOILS



Lorry Registration Number	
	EO14 KTJ
Transfer Ticket Number	
	49274



CPS	270	300	270	250	200
-----	-----	-----	-----	-----	-----

Ground Hog Serial Number:	6310 2438
Background eps:	180
Dose Rate Instrument:	Mini RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	OMISMSJI
Surveyor name and signature:	
Date:	22/8/15
Time:	1115
Comments:	BELOW MARKOR SPOILS



Lorry Registration Number	GF61 MWX
Transfer Ticket Number	49860

CPS	200	200	200	200	190

Average CPS Including Background for the Load:

209

CPS 230 240 220 210 200

Ground Hog Serial Number: 6310 12430 **Background cps:** 180 **Dose Rate Instrument:** MINI RAD Serial Number: 932 If average cps > 300 NET cps = FAIL PASS If average cps < 300 NET cps = PASS Wheel contamination survey completed if vehicle has entered supervised / contaminated area: Maximum dose rate: OI MCULT Surveyor name and signature: Date: 22/8/15 Time: 1120 Comments: Baron molecure spoils



ì

Appendix 3 – Lorry Monitoring Form



CPS	190	210	220	200	220	
	an a					Average CPS Including Background for the Load:
CPS	180	200	210	200	210	b

Ground Hog Serial Number:	6310/2438
Background cps:	
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	0.1 mcills
Surveyor name and signature:	
Date:	22/8/14
Time:	1125
Comments:	
	BROW MARKER SPOILS



Lorry Registration Number	EJ 12 SOE
Transfer Ticket Number	50467

CPS	190	210	180	180	190	
						Average CPS Including Background for the Load:
CPS	190	200	210	200	210	

Ground Hog Serial Number:	6310 2438
Background cps:	
Dose Rate Instrument:	Min ROD
Serial Number:	932
If average cps > 300 NET cps = FAIL	0.
If average cps < 300 NET cps = PASS	rass
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I mSult
Surveyor name and signature:	
Date:	22 8 14
Time:	1135
Comments:	BELON MARILOR SPOILS



٠







_		



CPS					
	200	210	180	190	Z00

Ground Hog Serial Number:	6310 2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	0.1 . SUIV
Surveyor name and signature:	
Date:	22/8/14
Time:	1319
Comments:	Balow MARLOR SPOILS



ġ.

1

Appendix 3 – Lorry Monitoring Form





Average CPS Including Background for the Load:

CPS 210 200 180 180 190

Ground Hog Serial Number:	6310 2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	0-1 msyls
Surveyor name and signature:	
Date:	22/8/14
Time:	1316
Comments:	Brow Maxing Slow







Average CPS Including Background for the Load:

CPS 22.0 30.0 50.0 30.0 50.0	220
--	-----

Ground Hog Serial Number:	6310/2438
Background cps:	160
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.ZmSylle.
Surveyor name and signature:	
Date:	22/8/14
Time:	1320
Comments:	Berow where should



-

Appendix 3 – Lorry Monitoring Form

Lorry Registration Number	
	EJ 12 SOE
Transfer Ticket Number	
	50468



Average CPS Including Background for the Load:

190

CPS PO	190	200	220	190
--------	-----	-----	-----	-----

Ground Hog Serial Number:	6310/2438
Background cps:	160
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I MSULVE
Surveyor name and signature:	
Date:	22/8/14
Time:	1305
Comments:	
·	BELOW MARKER SPOILS

Nuvia Limited, Kelburn Court, Daten Park, Risley, Warrington, WA3 6TW Tel: 01925 858200 Fax: 01925 811866 Email: <u>Info@Nuvia.co.uk</u>

.









CPS 170 180 180 200 18	0
------------------------	---

Ground Hog Serial Number:	6310 /2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	912
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	OINSIT
Surveyor name and signature:	
Date:	22/8/14
Time:	1435
Comments:	BELOW MARKER SPOILS

Nuvia Llmited, Kelburn Court, Daten Park, Risley, Warrington, WA3 6TW Tel: 01925 858200 Fax: 01925 811866 Email: <u>Info@Nuvia.co.uk</u>

.



ł

:

Appendix 3 - Lorry Monitoring Form





Average CPS Including Background for the Load:

197

CPS 190	200	210	210	190
---------	-----	-----	-----	-----

Ground Hog Serial Number:	6210/2438
Background cps:	180
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.IMSULT
Surveyor name and signature:	
Date:	22/8/14
Time:	1445
Comments:	RELOW MARILOR SPOILS

Nuvia Limited, Kelburn Court, Daten Park, Risley, Warrington, WA3 6TW Tel: 01925 858200 Fax: 01925 811866 Email: <u>Info@Nuvia.co.uk</u>

•



.

Appendix 3 – Lorry Monitoring Form



CPS	220	220	210	200	190

Average CPS Including Background for the Load:

t

٦,

221

CPS	220	250	260	240	200
				*,	

Ground Hog Serial Number:	6810/2438
Background cps:	
	180
Dose Rate Instrument:	Mini RAD
Serial Number:	
	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASJ
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	0.1 msthr
Surveyor name and signature:	
Date:	72 8/14
Time:	
	1440
Comments:	
	BELOW MARKOR SPOILS



.





Average CPS Including Background for the Load:

246

CPS 260 250 240 240 24

Ground Hog Serial Number:	199/2436
Background cps:	250
Dose Rate Instrument:	MINI RAS
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I MSJIL
Surveyor name and signature:	
Date:	26/8/14
Time:	0750
Comments:	
	BRIDG MARKER SKOLL





CPS	250	240	260	250	260	
					a sa	
CPS	240	230	250	250	240	

Average CPS Including Background for the Load:

247

CPS 240 230 250 250 240

Ground Hog Serial Number:	199 2436
Background cps:	
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	JUZMIO
Surveyor name and signature:	
Date:	26/8/14
Time:	0745
Comments:	BRAIL MARY NR SPOILS



۰.

Appendix 3 – Lorry Monitoring Form

Lorry Registration Number	EU14 KTJ
Transfer Ticket Number	47953



Ground Hog Serial Number:	190 21176
	1912430
Background cps:	250
Dec Did X d	200
Dose Kate Instrument:	MINI RAD
Serial Number:	
	932
If average cps > 300 NET cps = FAIL	
	QACC.
If average cps < 300 NET cps = PASS	(H27
wheel contamination survey completed if vehicle	
has entered supervised / contaminated area:	
Maximum dose rate:	110
	O.I MASULL
Surveyor name and signature:	
Date:	a. Jalu
101	2618114
1 ime:	A735
Comments:	0105
	Basing maring storing









270

Average CPS Including Background for the Load:

262

270

280

CPS	260	240	270	260	260

Ground Hog Serial Number:	199/2436
Background cps:	250
Dose Rate Instrument:	MINI RAD
Serial Number:	977
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I. MS/15
Surveyor name and signature:	
Date:	26/8/14
Time:	1110
Comments:	BOLOW MARKOR SPOILS







Average CPS Including Background for the Load:

CPS 250	260	250	260	240	
---------	-----	-----	-----	-----	--

Ground Hog Serial Number:	109/2436
Background cps:	250
Dose Rate Instrument:	Mind RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PIASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O. L.MSVIL
Surveyor name and signature:	
Date:	26/8/14
Time:	1120
Comments:	BODIN MARNER SPOIL







Average CPS Including Background for the Load:

255

CPS	240	250	260	260	240
-----	-----	-----	-----	-----	-----

Ground Hog Serial Number:	199/71176
Background cps:	
Dose Rate Instrument:	2_\$\
	MIN. RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	22A9
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I.MSJ15
Surveyor name and signature:	
Date:	26/8/14
Time:	1130
Comments:	baow marcor sloils





Maximum dose rate:	OI MOLL
Surveyor name and signature:	
Date:	26/8/14
ſime:	0901
Comments:	BOON MALLUR SPOILS







Average CPS Including Background for the Load:

262

CPS	290	290	260	250	260
-----	-----	-----	-----	-----	-----

Ground Hog Serial Number:	199/2436
Background cps:	250
Dose Rate Instrument:	MINI RAD
Serial Number:	932
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	2.1 MSVILS
Surveyor name and signature:	
Date:	24/8/14
Time:	09170
Comments:	BODY MAXINZ SPOILS



Method Statement

CF058 Issue 3 Page 14 of 14

Appendix 3 - Lorry Monitoring Form





Average CPS Including Background for the Load:

263

					T
CPS	250	250	260	270	270

Ground Hog Serial Number: 199/2436 **Background cps:** 250 Dose Rate Instrument: MIN, RAD Serial Number: 932 If average cps > 300 NET cps = FAIL If average cps < 300 NET cps = PASS PASS Wheel contamination survey completed if vehicle has entered supervised / contaminated area: Maximum dose rate: · dh. 2 O.I.M Surveyor name and signature: Date: 26/8/14 Time: 094 0945 Comments: Balow malking stores





CPS	230	240	240	260	220
CPS	220	20	7.0	2.00	240

Average CPS Including Background for the Load:

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I MCUILS
Surveyor name and signature:	
Date:	9/9/14
Time:	0735
Comments:	BOLON MORKOR Slavs







Ground Hog Serial Number:	19912436
Background cps:	230
Dose Rate Instrument:	MINI RAS
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle	
has entered supervised / contaminated area:	
Maximum dose rate:	0.1 msult
Surveyor name and signature:	
Date:	9/9/14
Time:	09()
Comments:	
	BOLOW MARKOR SPOILS



- Tar

Appendix 3 – Lorry Monitoring Form





CPS	220	240	240	230	Ż20	

Ground Hog Serial Number:	199/2426
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	0.1 ms. 14
Surveyor name and signature:	
Date:	alalin
Time:	1305
Comments:	BOLOW MARKER SPOILS







Average CPS Including Background for the Load:

24-3

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	Min RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.Insells
Surveyor name and signature:	
Date:	9/9/14
Time:	1415
Comments:	BOLOW MARKOR SPOILS







Average CPS Including Background for the Load:

242

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I MSULLE
Surveyor name and signature:	
Date:	9/9/14
Time:	َد <u>د</u> 80
Comments:	BOLOW MARKOR SPOILS







Average CPS Including Background for the Load:

235

Ground Hog Serial Number:	194/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	920
If average cps > 300 NET cps = FAIL	0
If average cps < 300 NET cps = PASS	VASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I MGULLE
Surveyor name and signature:	
Date:	9914
Time:	1015
Comments:	BELOW MARKUR SPOILS









Average CPS Including Background for the Load:

239

CPS					
	230	240	260	240	230

Ground Hog Serial Number:	199/2436
Background cps:	
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	0
If average cps < 300 NET cps = PASS	VASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O. 1 mSulls
Surveyor name and signature:	
Date:	9914
Time:	1145
Comments:	Bizon maring doins







Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	Mini RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	0.1 m SILE-
Surveyor name and signature:	
Date:	9/9/14
Time:	1400
Comments:	Brow MARICUR SPOILS








233

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	ZZAG
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	OIMSILLE.
Surveyor name and signature:	
Date:	9 9 14
Time:	1445
Comments:	BELOW MALKUR SPOILS







Average CPS Including Background for the Load:

237

Ground Hog Serial Number:	199/2/12/0
Ruekground onst	
background eps.	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	0
If average cps < 300 NET cps = PASS	VASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I MSULT
Surveyor name and signature:	
Date:	9/4/14
Time:	1325
Comments:	BOLON MELLOR SPOILS





CPS	270	250	240	240	250	
						Average CPS Including Background for the Load: 2.37
CPS	220	230	2 30	240	240	

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	Pass
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	OINSULT
Surveyor name and signature:	
Date:	9/9/14
Time:	1125
Comments:	BROW MEKUZ SPOILS





CPS	240	260	290	250	240	
						Averag Includ Backg for the
CPS	250	240	240	230	240	

Average CPS
Including
Background
for the Load:

8

Ground Hog Serial Number:	199/2436
Background cps:	2.50
Dose Rate Instrument:	MINI BAD
Serial Number:	920
If average cps > 300 NET cps = FAIL	0
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O. Lassille.
Surveyor name and signature:	
Date:	9/9/14
Time:	1002
Comments:	Raow Mexico Stores







Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	JILZA 1.0
Surveyor name and signature:	
Date:	9/4/14
Time:	0825
Comments:	Babu Mexor Shours







Average CPS Including Background for the Load:

245

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	ZILZM 1.0
Surveyor name and signature:	
Date:	9/9/14
Time:	0845
Comments:	Below marcol spoils







Average CPS Including Background for the Load:

233

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	Mini RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vchicle has entered supervised / contaminated area:	
Maximum dose rate:	0.1 15
Surveyor name and signature:	
Date:	alaliu
Time:	1075
Comments:	Below melicie slows







Average CPS Including Background for the Load:

277

CPS	220	220	240	230	240
	-20	24		230	0.0

Ground Hog Serial Number:	199 24-36
Background cps:	230
Dose Rate Instrument:	Mini CAD
Serial Number:	920
If average cps > 300 NET cps = FAIL	0
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I. m.Sully
Surveyor name and signature:	
Date:	9/9/14
Time:	1220
Comments:	Ban mercue shous



.

Appendix 3 - Lorry Monitoring Form







Average CPS Including Background for the Load:

232

CPS	230	240	240	230	220
-----	-----	-----	-----	-----	-----

Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	0.
If average cps < 300 NET cps = PASS	riks s
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	0.1 mSv/5-
Surveyor name and signature:	
Date:	9914
Time:	1350
Comments:	Brow MARKOR SPOILS



ł

Appendix 3 – Lorry Monitoring Form

Lorry Registration Number	EUIS VKJ
Transfer Ticket Number	51856



Ground Hog Serial Number:	199/2436
Background cps:	230
Dose Rate Instrument:	MINI RAD
Serial Number:	930
If average cps > 300 NET cps = FAIL	<i>Q</i> ₀
If average cps < 300 NET cps = PASS	rass
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	OINCIL
Surveyor name and signature:	
Date:	9914
Time:	1525
Comments:	
	BOLOW MARKEN SPOILS







Average CPS
Including
Background
for the Load:

267

CPS	2sD	260	270	270	260
-----	-----	-----	-----	-----	-----

Ground Hog Serial Number:	199 12436
Background cps:	230
Dose Rate Instrument:	M.J. RAS
Serial Number:	930
If average cps > 300 NET cps = FAIL	
If average cps < 300 NET cps = PASS	PASS
Wheel contamination survey completed if vehicle has entered supervised / contaminated area:	
Maximum dose rate:	O.I msile.
Surveyor name and signature:	
Date:	glalice
Time:	1540
Comments:	Baby marcor stores