In-Confidence

Owner Departme JUSTICE & COMMUNITY SAFETY DIRECTORATE
Branch Name ACT EMERGENCY SERVICES AGENCY
Section Name ACT FIRE BRIGADE

2011/15360

EMERGENCY MANAGEMENT - Emergency Incidents - Chemical Fire 60 Dacre Street Mitchell Incident Number 037334 - 15092011

contains information concerning the private affairs of individuals, companies, organisations or other on obtained under assurance of confidentiality. When not in use, this file is to be stored in a locked cabinet or room. As there may be documents on this file referring to personal information, you should also check with nager before disclosing it to anyone outside the ACT Government. These protective measures are d to meet the requirements of the *Privacy Act 1988 (Cwlth) and the Territory Records Act 2002.*

mmercial **In Confidence**

CLASSIFIED INDEFINITELY

2. Referred to	3. Date	4. Cleared Init. & Date	1. Folio No.	2. Referred to	3. Date	4. Cleared Init. & Date	1. Folio No.	2. Referred to	3. Date	4. Cleared Init. & Date
			NA	FILE CLOSED		17/10				
				FURTHER PAPERS IN						
s	27/9/11			FILE # 2011/16529						
9 Amberley Ave Farrer										
Incident log	14/10	[illegible]								
Copy ESA Emergency Manifest	14/10	[illegible]								
Copy ESA Evacuation diagram	14/10	[illegible]								
Maps ESA sampling sites	14/10	[illegible]								
Maps Exclusion zones sampling sites	14/10	[illegible]								
Atmospheric monitor downloaded readings	14/10	[illegible]								
ACT FB Selector Summary	14/10	[illegible]								
Chemwatch Printout Phosgene	14/10	[illegible]								
Pushing Litter recommendations	14/10	[illegible]								
site notes	14/10	[illegible]								
Previous incidents ESI	14/10	[illegible]								
ECC ICS Log - Part 1	14/10	[illegible]								
ECC ICS Log Part 2	14/10	[illegible]								
ECC Station reports 2, 3 and 4	14/10	[illegible]								
ECC Message forms	14/10	[illegible]								

Archival Action

	Destroy	Review	Retain
Year			RTA

(114) 288

	ACT Emergency Services Agency **ECC SITUATION REPORT**		
	INCIDENT: Mitchell HAZMAT		
PREPARED FOR OPERATIONAL PERIOD		FROM: 1230	TO:1500
SITUATION REPORT NUMBER		2	
ATTACHMENTS			

Status: Contained

Lead Agency: ACT Fire Brigade

Description of Incident: Mitchell HAZMAT. Fire and explosions at oil recycling facility at Dacre Street Mitchell. 11 ACTFB Units on scene. Fire & Rescue NSW also assisting. 50 personnel in attendance.

Current Impacts: Neighbouring unoccupied industrial premises.

Community

	Members of the Community	Incident Personnel
Deaths	*Nil*	*Nil*
Injuries	Nil *	*Nil*
Unaccounted	*Nil*	*Nil*
Evacuees	***120 at height of emergency*	*Nil*

- *Note: One security guard was admitted to Calvary Hospital for observation following possible smoke inhalation.
-
- **Note:197 people have accessed Dickson College evacuation centre. All evacuees have now left.

***Property:* Fire contained within premises but has impacted on adjoining unoccupied industrial premises. EPIC is now open.**

Infrastructure: *Exclusion zone of 300m which includes the Mitchell Industrial area.*
Road closures: Gungahlin Drive is closed between Barton Highway and Oodgeroo Avenue.
Flemington Road is closed between Randwick Road and Wells Station Road.
Gungahlin Cemetery and Crematorium closed for the day.
All Northside schools remain closed for the day.
Dickson College will remain open until 1700.
Action Buses running as normal except for exclusion zone.

Environment: Run off water and foam from fire fighting operations into nearby water ways has been captured within the concrete lined storm water system/ Sullivans creek. Water samples are being taken from Sullivans

Creek and Lake Burley Griffin but results will not be known for 24hours. These areas will stay closed until further notice.
FRNSW are conducting atmospheric testing onsite. EPA conducting water quality testing
Wind is currently driving smoke plume in a North Easterly direction.

Warnings and Public Information undertaken
Emergency Alert sent via phone to affected residents at 0330 this morning.
ESA Website along with ACT Policing twitter sites constantly updated.

[redacted]

Forecast Weather and Threat Analysis
Forecast for today: Winds west to northwesterly averaging up to 30 km/h.
Strong North westerly winds in the Gungahlin area pushing smoke plume into bordering NSW areas.
Incident Controller has liaised with NSW DEMOs regarding smoke plume potential.

Response Objectives and Tasking

People: Control access to site to operational personnel only.
ACTAS Warning: Possibility of delayed Pulmonary Oedema.
Possible caustic ash concern to be addressed.

Property: Continue containment to Recycling facility site. Limit damage to adjoining buildings and extinguish fire.

Infrastructure: Maintain current exclusion zone including closure of Crematorium and Cemetery and existing road closures. ACTION buses are now running as per normal except for the exclusion zone.

Environment: Continue closure of Lake Burley Griffin and Sullivans Creek. Ongoing monitoring of waterways by EPA. Contaminated material to be stored at a site in Fyshwick until further notice.

Warnings and Public Information - Proposed

[redacted]

Response Agency

IMT Activated at:
IMT activated approximately 0230

Public Information

PICC Activated at:

Not applicable PICC not activated

Supporting Agencies

ECC Activated at: Fairbairn at approximately 0330

Agencies in attendance: Chief Minister _____ell; Director General JACS _____.;Commissioner ESA _____ ACTFB; ACTAS; ACT Policing; ACT Health; EPA; ActewAGL; TAMS; Dept Housing &Community Services; Dept Education; SEMB;

ACTAS: Have a unit on the scene.

ACTFB: Currently on sight, within the fire contained to the original building Air monitoring still being undertaken at the site. Renewed foam attack on fire will take place at approximately 1400. Foam being brought in from NSW

ACTRFS: Providing logistics support to as required.

ACTSES: Assisting in ECC as required.

ACT POLICE: Road blocks in place in Mitchell: Gungahlin Drive between Oodgeroo Road and the Barton Highway, Flemington Road between Sandford Street and Wells station Road

RECOVER: There were 25 horses and about 120 people at the evacuation centre all of which have now left.

EDUCATION: All schools north of the lake will be closed today only.

TAMS: The business has arranged for 'sucker' trucks for clean up. Bunds are in place to collect any run-off. There has been some chemical spillage, which has made its way through the stormwater system and into Flemington Ponds. Sullivans Creek and Lake Burley Griffin remain closed until further notice.

ACTION: Buses have returned to schedule except for the current exclusion zone in Mitchell. Normal school bus services will be running this afternoon. Buses that usually travel along Flemington Road have diverted to Gundaroo Drive and the Barton Highway.

CHIEF VET: Contingency plans in place in case things flare up again. There are still horses at EPIC and staff on standby to assist with the movement of horse if required. Roadblock shifted further out so people cannot access racecourse nearer to opening of showground.

HEALTH: Police Escorts have been arranged from Mitchell to the hospitals for necessary supplies.

SEMB: Postal Services in North Canberra disrupted.

[redacted]

(NB:Other Functions Activated, briefings arrangements undertaken / proposed – TCC, Cabinet / SEMSOG)

(NB: Declaration of State of Emergency or Alert, appointment of Emergency Controller

	ACT Emergency Services Agency **ECC SITUATION REPORT**
	INCIDENT: Mitchell HAZMAT

PREPARED FOR OPERATIONAL PERIOD	FROM: 2200	TO:0600
SITUATION REPORT NUMBER	3	
ATTACHMENTS		

CURRENT SITUATION

Status: Contained

Lead Agency: ACT Fire Brigade

Description of Incident: Mitchell HAZMAT. Fire and explosions at oil recycling facility at Dacre Street Mitchell. Delta Command vehicle, Bronto, BA Van and 1 pumper on site overnight.

Current Impacts: Road closures only for this operational period

Community

	Members of the Community	Incident Personnel
Deaths	*Nil*	*Nil*
Injuries	Nil *	*Nil*
Unaccounted	*Nil*	*Nil*
Evacuees	***120 at height of emergency*	*Nil*

- *Note: One security guard was admitted to Calvary Hospital for observation following possible smoke inhalation.
-
- **Note:197 people have accessed Dickson College evacuation centre. All evacuees have now left.

Property: Fire extinguished but has impacted on adjoining unoccupied industrial premises. EPIC is now open.

Infrastructure: Exclusion zone of 300m which includes the Mitchell Industrial area.
Road closures:
Wells station road between Flemington Road and Gungahlin Drive.
Sandford St between Gungahlin Drive and Flemington Road.
Flemington Road between Sandford Road and Wells Station road.
Action Buses running as normal except for exclusion zone.

Environment: Runoff water and foam from fire fighting operations into nearby water ways has been captured within the concrete lined storm water system/ Sullivans creek. Water samples have been taken from Sullivans Creek and Lake Burley Griffin but results will not be known for at least 24hours. These areas will stay closed until further notice.
Soil sampling has been completed and is being couriered to Sydney for analysis.

Warnings and Public Information undertaken
Emergency Alert sent via phone to affected residents at 0330 this morning.
ESA Website along with ACT Policing twitter sites constantly updated.
Draft product information has been developed by ACT Health.
Draft cleanup strategy has been developed by EPA.
Both of these respective sets of information will be tabled by respective Director Generals at 0900 SEMSOG meeting on Saturday 17 September.

PROGNOSIS

Forecast Weather and Threat Analysis

Forecast for Saturday: Sunny. Winds northwesterly and light tending west to northwesterly up to 30 km/h during the morning.

Response Objectives and Tasking

People: Control access to site to operational personnel only.
ACTAS Warning: Possibility of delayed Pulmonary Oedema.
Possible caustic ash concern to be addressed.

Property: Monitor overnight.

Infrastructure: Maintain current exclusion zone.

Environment: Continue closure of Lake Burley Griffin and Sullivans Creek. Ongoing monitoring of waterways by EPA. Contaminated material (water) to be stored at a site in Fyshwick until further notice.

Warnings and Public Information - Proposed
Drafts to be tabled at SEMSOG

RESOURCES

Response Agency

IMT Activated at:
IMT activated approximately 0230

Public Information

PICC Activated at:

Supporting Agencies

ECC Activated at: Fairbairn at approximately 0330

Agencies in attendance: Incident Control moved to forward command post at 2200.

ACTAS: Have a unit on the scene.

ACTFB: Currently on site and monitoring.

ACTRFS: Stood down

ACTSES: Provided lighting on site but not personnel.

ACT POLICE: Road blocks in place in Mitchell to limit access to exclusion zone.

RECOVER: There were 25 horses and about 120 people at the evacuation centre all of which have now left.

EDUCATION:

TAMS: Sullivans Creek and Lake Burley Griffin remain closed until further notice.

ACTION: Buses have returned to schedule except for the current exclusion zone in Mitchell.

CHIEF VET:

HEALTH:

SEMB: Postal Services in North Canberra disrupted.

FURTHER INFORMATION and EMERGING ISSUES

(NB:Other Functions Activated, briefings arrangements undertaken / proposed – TCC, Cabinet / SEMSOG)

(NB: Declaration of State of Emergency or Alert, appointment of Emergency Controller

PREPARED BY:		**APPROVED BY**	
POSITION: IC		**POSITION: IC** **Approved**	
TIME:2130	**DATE: 16/09/2011**	**TIME: 2130**	**DATE: 16/09/2011**

Canberra Forecast

Forecast issued at 4:20 pm EST on Friday 16 September 2011.

Forecast for the rest of Friday

Summary

Mostly clear.

Chance of any rain: **5%**□□□□□□□□□□

Canberra area

Mostly clear. Winds west to northwesterly averaging 15 to 25 km/h.

Saturday 17 September

Summary

Min 4

Max 24

Sunny.

Chance of any rain: **5%**□□□□□□□□□□

Rainfall amount: **0 mm**

Canberra area

Sunny. Winds northwesterly and light tending west to northwesterly up to 30 km/h during the morning.

UV Alert from 9:10 am to 2:40 pm, UV Index predicted to reach 6 [High]

Around Canberra

Location	*Min*	*Max*
Canberra	4	24
Tuggeranong	5	24

Sunday 18 September

Summary

Min 7

Max 24

Sunny.

Canberra area

Sunny. Winds west to northwesterly averaging 10 to 20 km/h becoming light later in the evening.

Monday 19 September

Summary

Min 3

Max 26

Mostly sunny.

Canberra area

Mostly sunny. Winds mainly northeasterly averaging up to 30 km/h tending west to northwesterly 30 to 35 km/h around midday.

Tuesday 20 September

Summary

Min 8

Max 19

Mostly sunny.

Canberra area

Mostly sunny. Winds west to northwesterly averaging up to 35 km/h.

Wednesday 21 September

Summary

Min 3

Max 21

Mostly sunny.

Canberra area

Mostly sunny. Winds west to northwesterly averaging 20 to 30 km/h becoming westerly up to 25 km/h during the evening.

Thursday 22 September

	ACT Emergency Services Agency **ECC SITUATION REPORT**
	INCIDENT: Mitchell HAZMAT

PREPARED FOR OPERATIONAL PERIOD	FROM: 0600	TO:1400
SITUATION REPORT NUMBER	4	
ATTACHMENTS		

CURRENT SITUATION

Status: Fire Extinguished – monitoring.

Lead Agency: ESDD - Environment Protection Authority (EPA).

Description of Incident: Fire at Mitchell extinguished. On site monitoring, sampling and recovery is being conducted. Remains a HAZMAT incident until all testing and decontamination completed.

Current Impacts: Road, Government facilities and business closures in the exclusion zone.

Community

	Members of the Community	Incident Personnel
Deaths	*Nil*	*Nil*
Injuries	*1**	*Nil*
Unaccounted	*Nil*	*Nil*
Evacuees	***197at height of emergency*	*Nil*

- * possible smoke inhalation.
- **Note: 197 people have accessed Dickson College evacuation centre. All evacuees have now left.

roperty: Fire extinguished but has impacted on adjoining unoccupied industrial premises. EPIC is now open.

Infrastructure: Exclusion zone of 300m which includes the Mitchell Industrial area.
Road closures:
Wells Station road between Flemington Road and Gungahlin Drive.
Sandford St between Gungahlin Drive and Flemington Road.
Flemington Road between Sandford Road and Wells Station road.
Action Buses running as normal except for exclusion zone.

Environment: EPA is conducting significant soil, structure and water sampling with the cooperation of NSW EPA. Samples are being collected with the assistance of ACTSES. Plume modelling is being undertaken to ascertain any further testing sites. Caustic ash identified on a number of surfaces (cars and buildings) within Mitchell. Runoff water and foam from fire fighting operations into nearby water ways has been captured within the concrete lined storm water system/ Sullivans creek. Some sample results may be available later on this evening, with more results available on Sunday. These areas will remain closed until further notice.

Warnings and Public Information undertaken

ESA Website along with ACT Policing twitter sites constantly updated.
Draft product information has been developed by ACT Health.
Draft cleanup strategy is being developed by EPA; dependent on testing results.
Both of these respective sets of information will be tabled by respective Director Generals at 1000 SEMSOG meeting on Sunday 18 September.

PROGNOSIS

Forecast Weather and Threat Analysis

Forecast for Saturday: Sunny. Winds west to northwesterly averaging up to 30km/hour.

Sunday outlook: Sunny. Winds westerly to north westerly av. 10-20km/hour becoming light later in the evening.

Monday outlook. Mostly sunny. Winds mainly northeasterly averaging up to 30km/h tending west to northwesterly 30 to 35 km/h around midday.

Tuesday outlook: Mostly sunny. Winds west to northwesterly averaging up to 35 km/h.

Response Objectives and Tasking

People: Control access to site to operational personnel only. Possible caustic ash concern to be addressed.

Property: Monitor

Infrastructure: Maintain current exclusion zone.

Environment: Continue closure of Lake Burley Griffin and Sullivans Creek. Ongoing monitoring of waterways by EPA. Contaminated material to be stored at a site in Fyshwick until further notice.

Warnings and Public Information - Proposed

RESOURCES

Response / Lead Agency

Lead Agency: Handover from ACTFB to ESDD -EPA as lead agency conducted 1200 Sat 17 Sep.

Public Information

PICC Activated at: Fairbairn

Supporting Agencies

ECC Activated at: Fairbairn at approximately 0330 Fri 16 Sep and remains active with EPA as lead agency and ACTFB providing on site monitoring and recovery. Agencies represented are ESA, ACT Health and ESDD.

Agencies in attendance:

ACTAS: Ambulance crew on site until 1700.

ACTFB: Currently on site and monitoring - 8 x ACTFB vehicles and 14 ACTFB.

ACTRFS: Providing Logistic, Planning and Emergency Coordination tasks at ECC.

ACTSES: Providing personnel to assist EPA with sampling regime.

ACT POLICE: Road blocks in place in Mitchell to limit access to exclusion zone.

RECOVERY: Stood down.

EDUCATION: Stood down.

TAMS: Sullivans Creek and Lake Burley Griffin remain closed until further notice.

ACTION: Buses have returned to schedule except for the current exclusion zone in Mitchell.

CHIEF VET: Is stood down, waiting for advice on sampling and any possible caustic ash concerns to animal and pastures.

HEALTH: HECC stood down at 2030 16 Sep. HECC staff deployed to ECC from 0800, 17 Sep in support of EPA.

SEMB: will return for SEMSOG briefing 18 Sep.

FURTHER INFORMATION and EMERGING ISSUES

SEMSOG briefing scheduled for 1000 Sun 17 Sep at ESA HQ Fairbairn.

Public messaging for Sunday regarding access and lifting of areas within the exclusion zone.

Possibility of adverse test results requiring further testing and the continuation of access restrictions.

Public messaging needs to be prepared by NLT 1400 Sun 17 Sep. 11

Planning for decontamination and recovery actions to enable exclusion zone to be lifted by 0600 Mon 18 Sep.

PREPARED BY:		**APPROVED BY**	
POSITION:		**POSITION: ECC Coordinator** **Approved**	
TIME: 1300	**DATE: 17/09/2011**	**TIME: 1400**	**DATE: 17/09/2011**

AIIMS

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES
0829	TO
	WANTING DETAIL BRIEF TO PASS ON
	AT BRIEFING MEETING
	TAKEN CONTROL 0820
	SAID TALK TO NSW TO MAKE
	SURE NOT A CROSS PURPOSES
	GOT ANOTHER DO ON SITE - ASK IF SOMEONE
	LOOKING AFTER STAGING AREA
	OPS
	- FORWARD COM
	HEADING HOME
	GOT OUT TO TAKEOVER
	COMMENCE CAFS ATTACK ON FIRE
0834	ADVISED KWINANA HAS DEPOT DARLUS ST
	9 GAS. COMCEN TO GIVE NOTE TO IC
0839	ADVISED BUSES OF SCHOOL KIDS BEING
	LEFT AT EVACUATION SECTION
0841	CONTACTED IC. REQ TO COME
	ON SHIFT
0842	8 PALLETS OF AFFF COMING DOWN
0843	KIDS FROM NSW & WILL BE HELD
	AT EVACUATION CENTRE UNTIL ADULT WILL
	I.D. PICKS THEM UP.
846	REQ FROM RISK MAP OF PLUME
0900	BRIEFING - SITUATION SAME
0901	ADVISE ON
	LEAVE - HB PERSON FOR SMOKE PLUME
	IC SAID YES IF THAT IS WHAT THEY DO

AIIMS

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES
0903	DECON TRAILERS GONE OUT
0904	ADVISE RACE MEETING CANCELLED
0906	IC INFORM MEDIA THAT MEDIA SAYING
	PLUME NOT TOXIC.
	IC MEDIA TO SAY FIRE - ERR ON SIDE
	OF CAUTION
0907	ADVISED IC ON WINDS &
	SMOKE TRAIL
0908	THOROUGHBRED PARK WANTS MEETING
	TO GO AHEAD — TO RING BACK
	WITH DECISION
0911	IC TO RE RACE MEETING
	TO RING — -RACE
	COURSE AND ADVISE DEFINATELY OFF
0915	SMS TO —
	(RACE COURSE)
0918	BRIEFING
	CHANGEOVER OF COMMAND
	BEING ASSISTED BY NSWFB - MAINLY TECH
	FOAM ATTACK ON FIRE
	ADEQUATE RESOURCES
	MEDIA - ADVISING RE HEALTH
	RACE - CANCELLED
	BUSES OF CHILDREN FROM NSW LEFT
	AT EVACUATION SITE
	LOCATION FIRE CONTROL
AFP	ROAD BLOCKS - GUNGAHLIN DR CLOSED
	BETWEEN BARTON H'WAY & V
	FLEMINGTON RD, WELLS STATION
	EPIC - CHECKING STATUS
	APPROX 30 CHILDREN FROM NSW REC AT

EVAC. PARKING WITH FD

AIIMS

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES
	APPROX 130 PEOPLE AT EOAC. CONTAC
	IC ADVISES ANY CHANGES TO NOGATHOR
	WILL ADVISE
ACTAS	COMMAND STRUCTURE CHANGED
	OPS SUPPORT - STRETCHER.
	ACCESS 2 PEOPLE - NOW 1 TRANSPORTED
	PROTOCOL OF EOAC - CONTROL
	NSW RECORDING SUPPORT
ALTSES	MASKS & WATER DELIVERED TO POLICE
	ETS.
PARKS	LAKE CLOSED NOT YET.
MEDIA	MISS REPORTING BY NATIONAL MEDIA
	TWITTER ALL GO TO 1000 OOGANIGHT.
	COMMISSIONER & CO-FIRE BRIGADE MEDIA
	LOCAL MEDIA DOING RIGHT THING.
LCC	THOUGHT TO RESTA & CHANGEOVER.
EDUCATION	SCHOOL CLOSED ON NORTH SIDE
	WILL WORK TO GET SCHOOL KIDS BACK
TAMS	EXTRACTION UNITS READY
HEALTH	STRATEGIC WORK FOR VULNERABLE MEMBERS
	OF PUBLIC BUSINESS SUSTAINABILITY TO
	ALT HEALTH
IC	REQ INFO RE REQUESTS & NEED TO
	SERVICE EXCLUSION ZONE
	IC SAYS ACTFR WILL TRIAGE
ACTION	NORMAL BUS AT THIS STAGE
ALTSES	INQUIRED ABOUT CLEAN UP. IC SAID
	BIT LATER
CO FB	PLANE ATTACK 1000 HELICOPTER IN AIR.
	RACT MEETING CANCELLED NINGERY UNCOVERED
	1030 MEETING SEMR IC TO ATTEND

AIIMS™

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES
934	NO CHANGES. NSW HELICOPTER ~~ARRIVED~~
	ARRIVED PC TO GO UP. CAFS SOME
	EFFECT BUT WILL NOT HOLD 2 AIRPORT
~~947~~	TANKERS ENROUTE
941	AFP ADVISED INVESTIGATIONS STARTING
	ON COMPANY ETC
0949	IC REQUESTS THAT SHIRES ARE
	NOTIFIED OF SMOKE COMING INTO
	THEIR AREA.
0950	ADVISED WIND FROM GOULBURN
	COULD AFFECT. ABR TO ADVISE
	IC OF CHANGES
0953	ACT HEALTH - 2 PEOPLE NEED TO
	GET TO DEPOT FOR EQUIPMENT - NEEDED
	FOR SURGERY. BIO-HAZARD TRUCK
	NEED TO GET IN & OUT
	IC REQ NAMES & WHO & BE
	TRIAGED THROUGH COMMANDER FB.
0957	CORFS - RE FATIGUE NEED CHANGE
	OVER - IC MONITORED
1008	RANG AIRPORT RE PLUMING NORTH/NW.
	WILL ADVISE IF CHANGES.
1011	AFP - EVACUATION CENTRE CLOSING
	1100.
1012	ACT HEALTH - 6 PEOPLE REQUIRED
	INTO DEPOT. 1 NEEDS TO RETURN WITH
	CONTAMINATED TRUCK
1015	SPOKE WITH FIRE SITE RE ENTRY OF
	PEOPLE RE ACT HEALTH NEED ESCORT IN &
	~~out~~ STAGE AT EPIC. AROUND 11 FOR
	ESCORT

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
1020	RISK ADVISED SMOKE DROPPED WITH NORTHERLY FLOW. IC REQUESTS MODEL POTENTIALLY RED. MESSAGE TO STAY INSIDE.
10:32	SIGNED OFF ON BRIEFING - 11AM FOR Shoalhaven Palerang & Goulburn Shires advising local area coordinators
10:34	sent to ~~staging area~~ control point to assist as required.
10:37	provided maps on prediction of plumes
1038	Approve statement from media
1039	Phone call from confirming foam stores. and crew changeovers.
1040	Updated minister on current situation
1045	provided photos on current plumes
1046	Phone call from confirming IC Phone number.
1048	phoned and requested foam order changed to B Class.
1051	phoned stores to advise of change of foam order - 4 pallets in stores
1057	Confirmed with - authorisation to use flat bed truck not pods.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES	
1058	Chronology of events requested by Comm	
	Press conference at 1130	✓
1100	Catering requested for ComCen.	
1102	Phone call from [redacted] advising of level of toxicity in smoke and trucks currently staged -8 pumpers	
1108	BRIEFING -	
	4pumper, 3 cafs, bronto	
	-foam en route to incident	
	slowly gaining control	
	- time unknown	
	- handed out smoke prediction map	
	- assistance from NSW FB	
	- spillover into waterways but has been captured and is being extracted	
	ACTAS	
	[redacted]	
	[redacted]	
	[redacted]	
	• delayed pulminary - FB are monitering	
	• confirmed with Commissioner General public health warning was given re: toxicity.	
	SES	
	changeover from Liaison Officer from [redacted] TO [redacted]	
	RISK	
	Shift changeovers are occuring preparing sitrep	
	requested confirmation that DEECA recieved	✓

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
	MEDIA
	Press conference at 1130
	HEALTH
	; changed to liason officer
	· ISSUES regarding surgical procedures
	· Crews requested to get heath to staging area for equipment from Mitchell
	EVAC CENTRE
	- Domestic animals on site
	- most children have been collected - Red cross collected all details
	EDUCATION
	· contact with Dickson - will be keeping school open until 5pm
	ROADS
	Bins in place to prevent leakage into stormwater drains
	ACTIONS
	Dedicated shuttle services for diversion areas
	ENVIRO PROT
	water samples being collected.
	FOAM ATTACK WAS UNSUCCESFUL
	fire flared up due to power of air port attack breaking foam seal.
	- winds are strong and dispersing smoke plume to W/E to race course
	- disrupting fire attack
	- fire is contained

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES	
	- one sample came back with positive for atmospheric reading - has'nt been AFP	
	Road block remained the same.	
	EPIC is open	
	- conflicting information re: funerals as cemetry is closed	
	NEXT BRIEFING 1230	✓
1128	advised ____ : can send alert # 30 horses are at Racecourse contingency plan in place.	
1134	Advised comcen that there are radio communications	
1136	NSW Ute is losing drums of foames tray is open - NSW to be attended	
1136	confirmed foam requirements to be B Class AFFF	
1138	Phone call to ____	
1139	JACS have requested an update on environmental issues - confirmed no need	
1139	Update on plume photos given by ____	
1140	Phone call from ____ to confirm escorting of health do access stores and supplies in Mitchell	
1142	confirmed with Health that pumper will meet their staff at Road Block and escort them to supplies - no need for PPE	

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
1147	..... requested confirmation on number of pallets to be ordered - double the ordered as weekend stock may be required.
1159	..... updated IC on current staff and crew changeovers. ..... to be contact for ...
1203	Bel Air staying open for contaminated PPE.
1205	..... gave weather update via message
1208.	phone call from .....
1223	SEM - Crew & Recources on sights - Environment issues but is being monitered. - Atmapheric testing underway. & ongoing ISSUES - top issue is smoke plume - NSW bordering areas have been contacted. - Heath are vigilant - Sodium hydroxide may be deposited around Mitchell and needs to be addressed post incident - PB needs up to date information on chemicals stored where.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
1233	Evacuation centre has now closed
	GDE of Fleming on & Sanford closed.
	- would like roads to be open
	Floriade launch today.
1256	Every person out needs to be numbered and tagged.
~~1256~~	
1301	IC cleared ~~messaging~~ media release with _____.
1322	Action need no further involvement in ECC
1324	BP Watson staff complained of lightheadiness - IC advised seek immediate medical attention
1324	PRNSW Recourses have been released. Pumps to 2x by 1600 through Comms.
1327	Canberra times enquiry presented to IC and signed off.
1329	EPA requested sampling air reading copies. ACT Health are interested in a copy. ✓ 13:38 requested
	1400 Breifing scheduled
1340	rang IC and advised explosions are ongoing.
1343	SEMSOG requested information for postal services and rubbish tip - advised to contact.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES	
1347	Request for fuel from Ops officer - Diesel for trucks & appliances and flat tyre on a vehicle.	✓
1356	IC approved ECC strep	
1356	Workshop contacted re flat tyre and refuelling.	
1402	Plume modelling query from Interstate - to confirm	✓
1402	EPA want to confirm effects for sodium settlements - IC advised that it will be unknown until 1400 attack on fire.	
1405	BRIEFING - significant amounts of explosions - crew changeovers expected. -1400 attack on fire. 1600 Semsog scheduled ROADS ACT · site in Fyshwick identified to store wastage · IC advised spike in foams in ACT systems when next attack occurs ACTAS - prepared public messaging no change in incoming calls SES	✓

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES	
1409	list needs to be compiled and log of precence on ground	
	MEDIA	
	· Chief Minister has requested detailed sitrep - ... to send sitrep through with update soon	
	Next briefing 16:30 on fire attack.	
1420	8 pallets of foam en route from Sydney - due 1600	
1421	EPA have requested information on the type of equipment used for testing the air	✓
1421	ACT Health have requested an escort to deliver some waste to inside perimeter zone - approved to go 1426	✓
1424	fuel delivery is organised ETA 1500	
1429	Contact to EPS made via radio to call	
1430	Phone call from ... to advise of ACT Heath staff of Biowaste disposal.	
1436	... advised ... will be coming in to cover media until 1500 then will be on duty remotely	
1439	Pet store in Mitchell advised they will need access to store in Mitchell to feed birds or else they will die	

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
1441	Advised control of Pet shop owner requiring access. IC contacted _____ to advise him to attend control point and liaise directly with _____
1448	War Memorial requested update on fire status as event is scheduled on Sunday. IC advised to plan for event with notified otherwise.
1451	IC Contacted _____ re: update on fire operations.
1456	IC presented with Public Health message for approval in response to specific questions from ECC
1500	Issue re support staff being de conned highlighted.
1505	queries from social media and community re safety outside advised to draft messaging. and bring back for approval.
1510.	ACTP report PFC strep states vehicles downwind of incident have paint stripping off vehicles.
1524	_____ presented ESA News alert for approval. IC advised to keep msg consistent.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES	
1524	~~~ advised of possible showers in the next hour.	
1529	FRNSW ~~~ requested to release NSW pumpers	
1535	spoke to ~~~ repms and approved release of pumps. NSW contacted.	
1539	IC raised issues with communication to people on scene	
1544	ECC BRIEF · on scene hasn't changed · Drawing waste and disposing possibly in fyshwick. · Australia Post ~~~ requires two hour gap to get party bikes and mail · Pet store owner awaiting access to cater to pets. · ACT Health have had access.	✓
	HEALTH · Access has been completed. will need same access arrangements tommorow morning.	
	CM people want information regarding access outside.	

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
	ECC DEP Off
	· possible affects of stock in padlocks.
	· request from information on air quality testing.
	· NO capability to test for larger exposure to chemicals only phosgene.
	· unsure of exact plume modelling.
	· new Ambulance liaison (coordinator)
	ECC
	· Enquiring about situation and requirements for ECC
	· operations may be more difficult overnight.
	SES
	would prefer to be set up in light.
	- advised to take lighting to control point.
	NEXT BRIEF 1730
1559	· advised delay of foam until 20:00
1600	Ⓑ Phone call from Incident advising of readings

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
1605	advised of issue regarding shortage of trucks covering the district - currently four trucks are available
1617	Updated ESA Media on the current situation and approved release
1623	finalised statements for media release.
1631	Confirmed with that only Australia Post, Pet Store owner and ACT Health are authorised to enter the perimeter.
1638	Changeover confirmed 1700-2300 (Fwd/Command) 1700-? (IC @ Fairbairn) 2300-0700hr (fwd/command -rel@ 1700 (available 0700 17/9) -0700 IC Fairbairn -rel@1700 (available 1300 17/9)
1635	SO macgregor is on site advised to send Bravo21 to stores to collect 2 pallets of foam expected from Sydney @1730
1647.	confirmed medi.a release

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES	
1700	IC handover →	
	- Maps	
	- overtime crew	
	- resource list	
	- ECC downgraded	
	- foam has been ordered & pallets to stores 1730 2 Pallets to go directly to site	
	- Heath have been allowed to go into perimeter zone. Steri group due again tomorrow	
	- Pet shop owner went	
	- Australia post are still awaiting	
	- questions regarding radio access to station	
	- AFP paint stripped off car.	
	- numerous briefings.	
	DEMSOC -	
	- ~~ETU~~ Exclusion zone will remain closed for remainder of weekend. EPA will need to develop messaging regarding cleanup. War memorial will not be able to proceed with open day at Mitchell.	
	- Advised of situation re Decanning on scene.	
1708	Commissioner advised that priority is plan for decontamination. messaging will need to focus on VHG	✓

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
1710	Plume model for affected areas was given NSW DMO collised. 1.44 ppm - questions regard chemical testing from EPA - NSW trucks have been released - 2 DO's on forward documented in IMT - film of sodium Hydroxide around Mitchell - follow up on Hazmat crew on toolbox (will need to be included in messaging)
1715	Concerted attack on fire hit hard with foam - NO SMOKE - either dented or extinguished are currently monitering for break outs in foam & re ignition. BRIEF CONCUDED 1725.
1731	ECC BRIEF - Advised of that last concerted attack extinguished fire - confimation will be at 1800 - focus will now be on clean up.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES	
	requiring advice on PCB & other chemicals	
	- war memorial event is cancelled	
	media to contact and inform IC once completed	✓
	SES	
	lighting towers are currently being set up.	
	ECC	
	figuring out who stays	
	ACTAS	
	- current IC	
	EDUCATION	
	will advise Dickson college to remain on standby	
	HEALTH	
	Planning around stores and supplies over the weekend need to be implemented	
	- possible impact of after effects and repercussions of toxic fumes & residue.	
	ECC will reactivate after SEMSOG for forward planning	
	ROADS	
	Mainly traffic control	
	- clean up of waste needs to be organised.	

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
	ENVIRONMENT
	transpac are currently underway with cleaning up waste.
	- IC would like update on whether they are liaising with forward/command.
	IC requested all documents be centrally compiled
	ACTP raised issues regarding shutdown of Canberra Connect and where the flow over will go too.
	IC advised briefing of other stakeholders to ensure single source and one message.
	BRIEF CONCLUDED 1751.
1758	Phone call to Commissioner regarding information and lack thereof. of chemicals and toxic residue.
	Confirmed - 1830 will be able to confirm if foam blanket has held off reignition of flames.
1800	____ on scribe duty.
1825	Exclusion zone map presented by ____ and approved by Fes

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
1825.	release to public.
1835	Briefing with L.O.'s
	- PJ Building Collapse slowed progress
	- Discussions re collation of incidental documentation.
	- Map requires update to show Police road closures and diversions.
	- EIA require Plume mapping. Assistance gathering soil samples and authorisation for transport of samples to Sydney for analysis.
	- War Memorial Event cancelled - confirmed.
	- Next ECC briefing at 1945.
1925	From . #4 will be released soon, #6J released, 6A required ASAP, #7 to be released soon.
1948	ECC Briefing.
	- On site will review Mitchell with a view to opening Wells station road + Flemington road. If that decision is made ECC will stand down o'site.
	- CMS raised outcomes of SEMSOG. copies to be provided to ECC.
	Next meeting 2045.
2100	ECC Briefing.
	AFP, ESA, EIA, ACTAS.
	- Health messages to SEMSOG for approval.
	- On site will take full control o'site till 0600. watching brief o'site.
	- ECC up at 0600 with ACTFB Superintendent
	- EIA soil samples en route to fairbairn will be couriered to Sydney for analysis. Sydney EIA will arrive on site @ 0830.
	- Waiting on final road closures o'site.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
	ACTAS - crew changeovers - presence at site O'site - Crew available from Guyhalin EIA - bunding on site. One of the bunds may be leaking. No further water sampling at this stage. Advice to NCA to keep lake closed.
2120	_____ arrived in ECC.
2136	Site report from - Site inspection with AFP - To shut Flemington would be labour intensive. Flemington to remain closed - Sunbwick open. Airport tender departing Crew O'site 1 S.O. (SB) B31, 527, B6, Composite crew of _____ + _____ to stay on. Wells station road to stay closed. ACTAS will stay on site but available for response. _____ to stand down. Supt Keat will visit site for briefing prior to stand down.
2200	_____ stood down.
3/11 0600	Ag _____ stood up ECC (IC). ECC Members available: _____ ACTAS, _____ AFP. _____ (SAC's SEMB).
07.05	CO _____ on duty.
09:00	SEMSOG meeting
11:00	IMT meeting - _____ IC for CPA - _____ IC for FB area.
15:00	IMT meeting. - media access - offer to _____

![AIIMS logo]

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES
	[illegible] – OOS update
	– Bronto to stay, Hazmat to go
	– Pumper to stay overnight + assessment made on Sunday.
	– access + decon issues for Brigade.
	– traffic mgt plan in place
*	group meeting 9:00 am tomorrow.
	– 2:30pm Minister up n Bronto tomorrow.

(1) (12251)

AIIMS

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES
1143	Initial text 08, 09, B15, B4
	B27, B20, B31
	C72 C78
	60 Dacie St Mitchell
	Hazardous materials.
	Numerous calls from re
	fire.
0020	Came into ECC, requested ECC activation.
	Same
0120	Brief from Comcen.
	100K PCB internal
	4200 Solid Sodium Drums, 44gal.
	300k PCB external.
	Police at Canb Stadium, evac area
	Canberra Connect message.
	ECC Activation
	Require work Cover, EPA.
0240	NSW FR.
	coming to ECC.
0247	10 K alert area
	Requested new map.
0249	Shelter in place.
0253	Southerly wind Change same
301	Nil message
307	ABC Radio

AIIMS

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES
0310	ABC.
	Shelter in place.
0405.	
0319	- tweet not
	working. Ask to update.
0325	Command at Gun drive.
	Message going out.
	Watching brief. - Checking exposures.
	Nil explosion 15 minutes.
	Nil readings.
	EPA on site.
	PCB dissipate 980°: Nil.
	In Control.
0331	Brief.
	PCB produce dioxins. bio accumulant.
	Sodium - Sodium Hydroxide.
	Neutralise Citric Acid.
	Area is bunded.
	Nil evidence anything off site.
0345	Activate PICC. Next Brief 0415
	SEMB has activated recovery at
	Dickson College.
0356	
	Activate recovery.
	Notified

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
0406	PCB 1% within oil Jim S
	brief with NSW.
0411	ABC interview.
	Spelling mistakes. Clarify
421	Review decision re 2CC getting
	into.
~~0420~~	100 people
0427	80 - 100 Brief.
	AFP - Evac centre - Police
	150 people
	50 Horses
	80 - 10 vehicles.
	Could not contact Recovery.
	Canb Airport.
	Clarify exclusion zone.
	2CC
	want access.
	Roads putting in message boards.
	Locations identified.
	Hard barricades available.
	EPA - Nil in drainage.
	Holding ponds down stream.
	Action - Network cows.
*	Open border highway. *

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
	Canb. Comad activated.
	ACT Health.
	Hospitals notified.
	ACTAS.
	Nil change. 1 person assessed.
	nil transport.
	SES Majura at Bruce station.
	Media - doing
	media.
	to send.
	0510 next meeting.
0440	B 4 released.
	2 OT Crews.
0442	Rang
	2CC/2CA - 10 mins.
	Doing readings.
0450	EPA Water needs to contained.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
0500	On line
	Critical not to let water out of bund.
	Mod
	10.6 - 11.7 required to test for phosgene.
0505	NSW FR to bring scientific into Canberra.
0508	ABC interview.
0520	Brief
	ACTFB - ADVICE IS PHOSGEN - ADDITIONAL DETECTORS
	MORE ACCURATE
	MONITORING THE BUND - DIRECT FIRE ATTACK 0600
	HAZMAT - - MONITORING PLUME HEADING
	NORTH TO NULLARBOR ST 100MTS WIDE
	- HAS MAP OF PLUME WITH TRY FOR PRINT
	TANK WITH HAZMAT CHIPS - CITRIC ACID.
	CONCERN ABOUT DIRECT FIRE AS PHOSGEN CAN
	BE ABSORBED BY SKIN.
	ACT POLICE - POC STANDING UP AT WINCHESTER
	MESSAGE BOARD UP & RUNNING
	BARTON HWY & FEDERAL H'WAY
	SHELTER MESSAGE STILL IN PLACE
PAT -	LO FIRE BRIGADE INTO POC
	MEDIA - BRIEF FOR 0530 HRS
	ACTAS - GOULBURN HOSP IN CASE EXTRA
	RESOURCES REQUIRE. MAJOR ISSUE PULMONARY
	OEDEMA UP TO 48 HOURS LATER

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
	- PLUGGING ROADS
	- EMERGENCY ALERT READY TO SOUND
	- 10KM STAYS IN PLACE FOR NEXT HOUR -
5.30	WEATHER BUREAU SAY PLUME HEADING TO WARDS AIRPORT.
	BRIEF:
	HEALTH - CALOOLA READY WITH 30 BEDS
	EMERGENCY PLANS IN PLACE
	MESSAGE OUT BY 0600
	ACTIONS - CONCERN RE PPE - MASKS?
	CHECKING
	NEXT BRIEFING 0615.
0535	BRIEF FINISH
0536	TRANSPORTER BUS SENT TO OTHER
	AREAS THAN MITCHELL ADVISE MARK STURGESS
	EDUCATION
0540	SPEAKS TO - 1067
	ADVISED CHEMICAL STORAGE BLDG - CONFINED
	TO BLDG - MESSAGE TO COMMUNITY. IDENTIFY
	SODIUM STILL IDENTIFYING OTHER CHEMICALS
	06.00 ADVISING HEALTH MESSAGE. NO
	INJURIES REPORTED. EVACUATION ZONED MITCHELL
	ADVISE 10 KM ZONE KEEP WINDOWS SHUT STAY
0548	CREWS GOING OUT - AID DECISION AT
	0600.
0549	ACTIONS -
	- OK TO TRANSPORT

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
0551	PR FUNC – ADVISE FROM HAZMAT.
0552	BRIEFS
0600	BRIEFING
	– CONCURRED ABOUT GAS & PLUME
	– STATE OF ALERT.
	NSWOFB. 1% PHOSGEN – NEED TO KNOW OTHER 99%
	8:30 DETECTORS HERE TO ADVISE
	NEED MESSAGE OUT PUBLIC – WORST CASE
NSWOFB	STAY OUT OF PLUME STAY
	100 MTR CORRIDOR WIDE 1.7KM LONG
	MOBILE SHELTER IN PLACE DOES NOT SAID
	THERE. NOT AIRTIGHT
	NEED TO KNOW FROM SCENE SITE IF ANYONE
	IS FEELING ANYTHING
	1.5 KM LOOKS PEOPLE IN HOMES AT THIS STAGE
	PHOSGEN IRRITANT & CAN BE PERMANENT
	NOT SURE TO KEN
NSWOFB	SAID BLIND IN TO 1.5KM.
	BLIND INTO 1.5 KM EXCLUSION ZONE
NSWOFB	2.7KM FOR LARGE SPILL OF PHOSGEN
	DOES NOT BELIEVE LGE SPILL
	KEEP IN 1.5.
NSWOFB	NEEDS LATEST WEATHER TO PLUME MODEL
	SPOKE TO RE MESSAGES
	START SOURCING CITRIC ACID FROM HERE
	ADVISED MIGHT CALL STATE OF ALERT. 10KM FOR
	NOW MAP – FORBES
	1% PCB – ON FIRE CONTAINS PHOSGEN CAN
	CAUSE IRRITATION – RESIDENTS 1.5-2 STAY INSIDE
MEDIA	ADVISED ACTION BLUES BLIND CANCELLED

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
0615	ACTSES ADVISED IC PEOPLE PRESCOTT INC WITH PROBLEMS
	SPOKE TO ABOUT PEOPLE PRESCOTT INC
	WITH IRRITATIONS
	ADVISED TO STAY KEEP CURRENT ZONE
NSW FB	400KG - 4KG = 1 KG PHOSGEN GAS
BRIEF	FIRE NOT UNDER CONTROL - OIL HAS
0625.	IMPACTED THE BUND.
	10KM EXCLUSION ZONE - SHELTER WITHIN 20KM
	CONSIDERING STATE OF ALERT.
ACTAS	STAFF GOING TO WORK AS PER NORMAL
	NSW STILL GIVING SUPPORT TO ACT.
	REPORT NUMBER OF PEOPLE IN EVACUATION
	CENTRE
6-28	- FB UNIT TO DICKSON COLLEGE
POLICE	PUBLIC CONTACTING POLICE
	CANBERRA AIRPORT 5000MTR EXCLUSION ZONE
	AREA.
	ADVISE P2 PPE
	-REQUESTS SES TO ACTION
NSW FB	PLUME MODEL - ½ KM POTENTIAL PHOSGEN
	100 METRE BAND
	REQUESTED NICK TO GET PLUME MAPPED
EPA	PLUME IS MINERAL OIL
10'	REQ NSW FB TO GET CITRIC ACID
	ADVISED ACT VET ANIMALS CANNOT BE
	MOVED YET
ACTION	NOTHING RUNNING NORTH OF LAKE
	REQ ALERT TO BE SENT OUT.

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
635	PROJECT CODE 64924.
	CIVIC SHUT DOWN.
	CLOSED LAKE & SULLIVANS CREEK.
	OTIS NO BKT BRIEFING
	BRIEF FINISHED 0638
	BRIEF WITH COMMISSION
	SAID BRING EXCLUSION ZONE 30MTR
	AND DIRECT ATTACK OF FIRE
	REASON WAY DISPERSION ZONE HAS LIFTED
	REDUCE SHELTER ZONE - PRELIMINARY RESULTS
	TEST RESULT DUE SHORTLY -
	PASS INFO TO - 2
0655	TO MINISTRY LEFT MESSAGE TO CALL BACK
0700	ADVISED MINISTRY
0700	ATTENDED RAC MEETING - HOLD OFF
	WITH MORE ADVICE
0705	WANT DEFINITE RE SCHOOLS
	& FIRST ITEM LIFTING ZONE - SCHOOLS
	& BUSES - NORTH OF LAKE - TIME WHEN
	BACK TO NORMAL
0705	TO - ADVISED OPEN UP TRAFFIC
	SCHOOLS ETC
0715	BRIEF
	STRATEGY OF BREACH OF BUND.
	SODIUM STILL ON SITE
NSWFB	PLUME STILL SAME AS BEFORE
	NSWFB ON SITE WITH CME CHIPS
	ALL TESTING SO FAR NEGATIVE
NSWFB	RUN OFF - SOURCING CITRIC ACID
	REQ - BACK HOE - FOR SUCKER HOSE

AIIMS

ICS UNIT LOG (continued) ICS 4.0

TIME	IMPORTANT NOTES
	DAM GOING TO PLACE NOW -
	SAMPLING BEING TAKEN & ANALYSISED
	AT LAB.
ACTAS	2 TRANSPORT NOT RELATED TO GASES.
	AMBULANCE ON SITE
POLICING	- ADVISE 25 HORSES AT EVACUATION &
	ABOUT 100 PEOPLE
	CURRENT ROAD BLOCKS ADVISED TO
	ROADS
	EPIC & THOROUGHBRED RELOCATED FROM ZONE
	GLENGARLIN TRIBS REOPENING
RECOVERY	120 PEOPLE + HORSES & FLOATS
ACTION	SOME NETWORK CAN BE MANAGED AROUND
	ZONE - ROLL SCHOOL SERVICES
EDUCATION	ADVISE SCHOOLS ONGOING
ACTIVITY	THOROUGHBRED PARK FIRE HORSES CAN
	GO BACK TO EPIC
	ACT HEALTH & ACTAS TOGETHER AFTER
	RE HEALTH MOSSAC
	EXCLUSION ZONE BACK TO MITHCELL
	FIRE GOING RIGHT DIRECTION. LOTS OF OIL.
	DO. GUARD EXTEND WILL WIND UP EARLY
ENVIRON	JUST HIT FLEMINGTON POLES PLOTTING
	RUN BELOW NOW
	7 30 FINISH
	NEXT 08 30
0735	SCHOOLS STAYING CLOSE TOO LATE FOR
	SCHOOL BUSES
0735	HANDOVER TO NEW IC REFER SMEAC
	BRIEFING FORM
	800 ALL UNITS FALL BACK

AIIMS

ICS UNIT LOG (continued)

ICS 4.0

TIME	IMPORTANT NOTES	
	INVERSION WENT [illegible] WHEN [illegible] ROSE	
	REQ [illegible] TO MAINTAIN + ANCHORS ETC CHANGEOVER	
0730	↕	
0800	Handover to	

240

Incident Report

Fire Brigade Reference: 004629-12022005-0 **Date & Time of Fire** 12/02/2005 05:15:43

Address:

MITCHELL

Description of Incident:

On approach to the incident from Flemington Road the crew observed a small fire in rear yard facing Darling Street. On arrival it was apparent that some form of equipment being stored at the site was alight. The fire involved a cylindrical object approximately 2m in height by .4m wide on top of a square base approximately 40cm2. The fire produced yellow/orange flames on the outside of the unit, and blue flames inside - there was a small 30cm x 30cm hole in the side of the unit which allowed a view inside. These observations took place from the rear gate of Kelly's Body approximately 25 m from the fire. A low volume plume of smoke issued upwards at an angle of about 70' - there was no wind. Liaised with Station Officer who had arrived in Ainslie's pumper. Liaised with District Officer EPA was notified. Gained access by cutting chain at rear gate adjascent to bulk tanks. Firefighters wore breathing apparatus and approached the fire from the leeward side to report on the extent of the fire. They observed that the unit had a power supply and a fan was running. Foam was applied from a distance in broken jets in an attempt to extinguish the fire without success. Firefighters and re-entered the yard from the leeward side and isolated power by switching of at the unit. A constant jet of foam was then applied which extinguished the fire. Run-off was contained within the site. Two attempts were made to contact the owner on an after hours emergency number posted on the bulk tanks - messages left on answering machine. The unit retained much heat after extinguishment and continued to issue steam/vapour. Hazmat crew monitored run-off for contaminants but nothing detected. Police ensured no entry to adjacent buildings and blocked the street. Liaised with EPA, who provided information on the site. Owner eventually contacted and arrived at scene to provide information on the product involved and the process. said that the affected unit did contain PCB's in the range of 50 parts per million. He said he had used this process before on other types of tranformers but this was the first time with this type. The process takes several days of applying fan forced high temperature air into the unit. Incident handed over to relieving crews at around 0800hrs. Liaised with District Officer and Station Officer in attendance. Station Officer reported the following:

Hazmat crew arrived following change-over. Firefighters and viewd the immediate area of the fire for residual contaminant. Firefighters and utilized monitoring equipment (PID and 4 head detector) in immediate area and in adjacent buildings and found the atmosphere clear and inhabitable. Firefighters Woodward and sial wore 'splash suits' and cleaned up a minor quantity of residue (approximately 1 to 2 litres)using vermiculite. The waste was contained in a brewers drum and after consultation with EPA and the owner the waste was left on site as the responsibility of the owner. In cosultaion with the surrounding area was washed down with water to remove foam residue from initial firefighting efforts. The site was handed over to EPA once and Stuart were satisfied with the safety of the area.

Incident Report

Fire Brigade Reference: 004629-12022005-0 **Date & Time of Fire** 12/02/2005 05:15:43

Address:

MITCHELL

Fire Reported to fire brigade Comcen by: Resident, occupier, employee
Via: 000 Call

Date & Time of Arrival of First unit on scene: Fys10
30/12/1899

Senior officer attending call:

Description of the Premises, Vehicle, Property: Industrial yard approximately 25m x 20m at rear of 20 Winchcombe Court. Bulk oil containers stored within bunds. A large quantity of smaller containers holding transformer oil including 44 gallon drums throughout the site. Numerous large powre transformers.

Owner of the Premises, Vehicle, Property: 20 Winchcombe Court

Mitchell

Estimated value of damage($): 1000

Is the property insured?: Property and contents insurance undetermined

Origin of the fire: Storage areas not classified above

Cause of the fire: Design deficiency

Police Notification: Yes

Police Attendance: Yes

Coroner Use Only

Police Attendance : Yes / No

Suspicious Circumstance : Yes / No

Did Coroner Attend? : Yes / No

Scene handed to Police?: Yes / No
At:
To:
Coroner:

Incident Report

Fire Brigade Reference: 003513-27012009-0 **Date & Time of Fire** 27/01/2009 11:22:04

Address: Energy Services Environmental
20 WINCHCOMBE COURT
MITCHELL

Description of Incident:

Medical assist call to 3 men having been sprayed with oil and currently washing affected areas with water at Energy Services Environmental 20 Winchcombe Court Mitchell.

Upon arrival met by the Office Manager _____ who had the Chemical Data sheets for all chemicals stored on the premises and informed me that 3 workers had been sprayed with oil that contained Sodium Hydroxide making the oil caustic causing burns to the faces of the 3 men. All 3 men where currently irrigating affected areas with water no entry was made at this time.

Entry to the premises was made after the Operations Manager _____ assured that all traces of PCB's had been removed from the oil and the Sodium Hydroxide was by product in the process to remove the PCB's. I made entry through the roller door at the rear of the premises and found 3 males irrigating affected areas with water over hand basins in the ablutions area of the workshop. The amount of oil spilt appeared to be about 2 litres on a concrete floor covering approximately 10 m2. The spill area was clear of the roller door allowing safe access for Ambulance crews to treat casualties.

_____ the Field Services Manager was also on scene and provided information on the process of removing PCB's from the oil. He also informed me that he had arranged for a crew from the other depot to clean the spill if required. In consultation with District Officer _____ and Station Officer _____ it was agreed that they could conduct the clean up of the Work Cover was requested and Mr Tim Cody attended to conduct investigations into the incident. All relevant information was given to _____ and the scene left with him to complete further investigation.

Electricity Notified:	Not notified
Gas Notified:	Not notified
Ambulance Notified:	Notified and attended
Environmental Protection Agency Notified:	Not notified
Number of Brigade Personnel Injured:	0
Number of Other Personnel Injured:	3
Number of Brigade Personnel Fatalities:	0
Number of Other Personnel Fatalities:	0

Incident Report

Fire Brigade Reference: 003513-27012009-0 **Date & Time of Fire** 27/01/2009 11:22:04

Address: Energy Services Environmental
20 WINCHCOMBE COURT
MITCHELL

Fire Reported to fire brigade Comcen by: Resident, occupier, employee
Via: 000 Call

Date & Time of Arrival of First unit on scene: B6
27/01/2009 11:28:04

Senior officer attending call:

Description of the Premises, Vehicle, Property:

Owner of the Premises, Vehicle, Property:

Estimated value of damage($): 0

Is the property insured?: Property and contents insurance not reported

Origin of the fire: Area of fire origin not reported

Cause of the fire: Ignition factor not reported

Police Notification: Yes

Police Attendance: Yes

Coroner Use Only

Police Attendance : Yes / No

Suspicious Circumstance : Yes / No

Did Coroner Attend? : Yes / No

Scene handed to Police?: Yes / No
At:
To:
Coroner:

Incident Report

Fire Brigade Reference: 030708-13092006-0 **Date & Time of Fire** 13/09/2006 06:56:04

Address: CSI (PCB dechlorination plant)
SANDFORD STREET
MITCHELL

Description of Incident:

On arrival I was met by the manager _____) who informed me that it was only a rag that was alight and that his employees had already extinguished it. I went to inspect the site, saw the rag which had been extinguished and was shown the heating pipe on which it had been sitting.

An employee was still using a fire hose reel to put water on the side of 2 smoking 200 litre drums. I asked _____ if e smoke coming from the drum was normal, he said that it was not. He said that the drum contained vemiculite which ..ad been used to absorb clean oil (not contaminated with PCB), and that it had overheated and caught alight. The drums were part of a drying apparatus used to reclaim the last of the clean oil. _____ told me that they would take care of this smouldering fire.

I disagreed, and told him that we would extinguish the fire. He did not want us to open the drums as he was worried about the heat. I instructed FFs _____ cool the outside of the drums with a high pressure hose. After several minutes the FFs donned breathing apparatus and opened the drums, they discovered the drums contained old oil filters, not vermiculite.

_____ expressed surprise that the drums contained oil filters and informed me that they should not have been placed in this particular drying unit as it runs at too high a temperature for these items. He could not explain how they ended up in this unit or which employee may have been responsible.

The FFs removed the filters from the drums and ensured they were extinguished.

I informed _____ that I would be contacting ACT Workcover in relation to this incident for the following reasons;

1. The drying process runs overnight without supervision
2. His inability to explain how the filters ended up in the wrong drying unit
3. The potential for disaster if a further fire occurred given the fact that there is large amounts of oil stored on the premises, both clean and contaminated.
4. The fact that in my opinion he tried to discourage the ACTFB from extinguishing the fire, and appeared to be less than truthful when facts contrary to what he told me were revealed.

On return to station I informed _____ of the situation and my intention to contact ACT Workcover. I contacted the on call officer for Workcover, _____ and informed him of the situation and my concerns.

Incident Report

Fire Brigade Reference: 030708-13092006-0 **Date & Time of Fire** 13/09/2006 06:56:04

Address: CSI (PCB dechlorination plant)
SANDFORD STREET
MITCHELL

Fire Reported to fire brigade Comcen by: Resident, occupier, employee
Via: 000 Call

Date & Time of Arrival of First unit on scene: B2
13/09/2006 07:03:38

Senior officer attending call:

Description of the Premises, Vehicle, Property: CSI is a PCB dechlorination plant. Fire was external to building in a drying drum.

Owner of the Premises, Vehicle, Property: [redacted]
CSI
Mitchell

Estimated value of damage($): 0

Is the property insured?: Insurance not applicable

Origin of the fire: Not classified above

Cause of the fire: Unattended

Police Notification: No

Police Attendance: No

Coroner Use Only

Police Attendance : Yes / No

Suspicious Circumstance : Yes / No

Did Coroner Attend? : Yes / No

Scene handed to Police?: Yes / No
At:
To:
Coroner:

Filter recommendations

Substance	CAS-no	Filter	Note
1, 2-Dichloroethane	107-06-2	A	
2-Nitropropane	79-46-9	A	4
2-Propanol	67-63-0	A	
Acetaldehyde	75-07-0	AX	4
Acetamide	60-35-5	A+P3	1, 4
Acetic acid	64-19-7	B	
Acetic anhydride	108-24-7	B	
Acetone	67-64-1	AX	
Acetylchloride	75-36-5	B	
Acetylene	74-86-2	Compr.air eq	
Acrolein	107-02-8	AX	3
Acrylamide	79-06-1	A+P3	1, 4, 5
Acrylic acid	79-10-7	B	
Acryloritrile	107-13-1	A	4
Adipic acid	124-04-9	P3	
Aliphatic naphta	8052-41-3	A	
Allyl alcohol	107-18-6	A	3
Allyl chloride	107-05-1	AX	5
Allylamine	107-11-9	K	5
Aluminium chloride	7446-70-0	B+P3	1
Aluminium oxide	1344-28-1	P3	
Ammonia	7664-41-7	K	
Amyl acetate	628-63-7	A	
Aniline	62-53-3	K	4, 5
Antifouling paints		A+P3	1
Antimony	7440-36-0	P3	
Antimony hydride	7803-52-3	B	
Aromatic naphta		A	
Arsenic (not arsine)	7440-38-2	P3	
Arsine	7784-42-1	B	
Barium	7440-39-3	P3	
Benzaldehyde	100-52-7	A	
Benzene	71-43-2	A	4
Benzotriazole	95-14-7	A+P3	1
Benzoyl chloride	98-88-4	B	
Benzyl alcohol	100-51-6	A	
Benzyl chloride	100-44-7	B	3, 4
Beryllium	7440-41-7	P3	4, 6
Biphenyl	92-52-4	A+P3	1
Bromine	7726-95-6	B	
Butyl acetate	123-86-4	A	
Butyl alcohol	71-36-3	A	
Butyr aldehyde	123-72-8	A	
Cadmium	7440-43-9	P3	4
Calcium oxide	1305-78-8	P3	
Carbon dioxide	124-38-9	Compr.air eq	
Carbon disulphide	75-15-0	AX	5
Carbon monoxide	630-08-0	Compr.air eq	
Carbontetrachloride	56-23-5	A	4

Substance	CAS-no	Filter	Note
Chlorate		P3	
Chlorine	7782-50-5	B	
Chlorine dioxide	10049-04-4	B	
Chloroform	67-66-3	AX	4
Chloroprene	126-99-8	AX	4
Chromic acid	1333-82-0	P3	4, 6
Cobalt (dust and smoke)	7440-48-4	P3	6
Cresol	1319-77-3	A+P3	1
Cumene	98-82-8	A	5
Cupper	7440-50-8	P3	
Cutton dust		P3	
Cyanide (as CN)	57-12-5	B+P3	1, 3
Cyclohexanol	108-93-0	A+P3	1
Cyclohexanone	108-94-1	A	
Diacetone alcohol	123-42-2	A	3
Diglycidyl ether	2238-07-5	A	3, 6
Dimethyl sulphate	77-78-1	A	3, 4, 5
Dimethylformamide	68-12-2	A	4, 5
Dioxane	123-91-1	A	4, 5
Dust, inert		P3	
EDTA	60-00-4	P3	
Epichlorohydrin	106-89-8	A	4, 5, 6
Ethanol	64-17-5	A	
Ethyl acetate	141-78-6	A	
Ethyl acrylate	140-88-5	A	4, 5, 6
Ethyl bromide	74-96-4	AX	3
Ethyl chloride	75-00-3	AX	4
Ethyl ether	60-29-7	AX	
Ethylene glycol	107-21-1	A	
Ethylene oxide	75-21-8	AX	4, 5
Ethylenediamine	107-15-3	K	3, 6
Ferrous chloride		BE+P3	1
Ferrous oxide (smoke)	1309-37-1	P3	
Fluor	7782-41-4	B	
Fluoride (as F)		P3	
Fluorosilisic acid	16961-83-4	B+P3	1
Formaldehyde	50-00-0	B	4, 5, 6
Formic acid	64-18-6	E	
Freon 113	76-13-1	Compr.air eq	
Furfural	98-01-1	A	
Glutaraldehyde	111-30-8	A	6
Glycolmonobutyl ether	111-76-2	A	5
Glycolmonomethyl ether	109-86-4	A	5
Hydrazine	302-01-2	K	3, 4, 5, 6
Hydrochloric acid	7647-01-0	B	
Hydrofluoric acid	7664-39-3	B+P3	1
Hydrogen cyanide	74-90-8	B	3, 5
Hydrogen peroxide	7722-84-1	Compr.air eq	
Hydrogen selenide	7783-07-5	B	3

Compressed air equipment can always be used instead of a filter respirator. It should always be used if the gas concentrations are in excess of 0.5% by volume. Should be used for physically strenuous or long-duration work.

N.B. Compressed-air supplied equipment should not be used where there is danger of loss of consciousness or asphyxiation.

Advice concerning the selection of filters and the method of use can always be obtained directly from Sundström Safety AB.

Pre-filter SR 221 should always be used. N.B. This pre-filter can never replace particle filter SR 510.

These recommendations are derived from a number of different sources and they follow the current Swedish regulation. Note that there can be national differences in the regulations for use of respiratory protective equipment.

Substance	CAS-no	Filter	Note
Hydrogen sulphide	7783-06-4	B	
Hydrogene	1333-74-0	Compr.air eq	
Hydroquinone	123-31-9	P3	4, 6
Iodine	7553-56-2	P3	3
Isophorone	78-59-1	A	
Isoprophyl alcohol	67-63-0	A	
Lead (smoke and dust)	7439-92-1	P3	
Maleic anhydride	108-31-6	B+P3	1, 6
Mangan	7439-96-5	P3	
MDI	101-68-8	B+P3	1, 6
MEK	78-93-3	A	5
Melamine	108-78-1	Compr.air eq	
Mercury (vapour)	7439-97-6	Hg-P3	2, 5, 6
Methyl acrylate	96-33-3	A	5, 6
Methyl alcohol	67-56-1	AX	5
Methyl bromide	74-83-9	AX	3, 5
Methyl chloride	74-87-3	AX	4
Methyl ethyl ketone (MEK)	78-93-3	A	5
Methyl iodide	74-88-4	AX	4, 5
Methyl isobutylketone (MIBK)	108-10-1	A	3, 5
Methyl methacrylate	80-62-6	A	5, 6
Methylamine	74-89-5	K	
Methylchloroform	71-55-6	A	
Methylene chloride	75-09-2	AX	4
MIBK	108-10-1	A	3, 5
Monomethylamine	74-89-5	K	
Morpholine	110-91-8	A	5
Nickel carbonyl	13463-39-3	Compr.air eq	4, 5
Nickel, metal	7440-02-0	P3	4, 6
Nitric acid	7697-37-2	B	
Nitrobenzene	98-95-3	A	5
Nitrogen	7727-37-9	Compr.air eq	
Nitrogen dioxide	10102-44-0	Compr.air eq	
Nitrogen oxide	10102-43-9	Compr.air eq	
Nitroglycerine	55-63-0	A	5
Nitroglycol	628-96-6	A	5
Nitrous gas		Compr.air eq	
Nitrous oxide	10024-97-2	Compr.air eq	
Octane	111-65-9	A	
Organic peroxides		A+P3	1
Oxalic acid	144-62-7	P3	
Ozone	10028-15-6	B	
p-Phenylenediamine	106-50-3	P3	3, 6
PCB		A+P3	1, 4, 5
Pentachlorophenol	87-86-5	P3	4, 5
Perchloric acid	7601-90-3	BE	
Perchloroethylene	127-18-4	A	4, 5
Petrol	86290-81-5	AX	
Phenol	108-95-2	B+P3	1, 5

Substance	CAS-no	Filter	Note
Phosgene	75-44-5	B	
Phosphine	7803-51-2	B	
Phosphoric acid (mist)	7664-38-2	BE+P3	1
Phthalic anhydride	85-44-9	P3	6
Piperazine	110-85-0	K+P3	1, 6
Piperidine	110-89-4	K	
Potassium hydroxide	1310-58-3	P3	
Potassium permanganate	7722-64-7	P3	
Propinoic acid	79-09-4	B	
Pyridine	110-86-1	A	
Selenium	7782-49-2	P3	
Selenium sulphide	7782-49-2	P3	4
Silicon dioxide	14464-46-1	P3	4
Silver nitrate	7761-88-8	P3	
Sodium carbonate	497-19-8	P3	
Sodium fluoride	7681-49-4	P3	
Sodium hydroxide	1310-73-2	P3	
Sodium hypochlorite	7681-52-9	B+P3	1
Sodium perborate	10486-00-7	P3	
Sodium silicate	6834-92-0	P3	3
Styrene	100-42-5	A	5
Sulfamic acid	5329-14-6	B+P3	1
Sulfur dioxide	7446-09-5	E	
Sulphuric acid (mist)	7664-93-9	E+P3	1
TDI	91-08-7	Compr.air eq	4, 6
Terpentine (oil)	8006-64-2	A	5, 6
Tetrachloroethylene	127-18-4	A	5, 6
Tetraethyl lead	78-00-2	A+P3	1, 5
Tetrahydrofuran	109-99-9	A	
Tetramethyl lead	75-74-1	A+P3	1, 5
Toluene	108-88-3	A	5
Tributyl phosphate	126-73-8	A	
Trichloroethane	71-55-6	A	
Trichloroethylene	79-01-6	A	4
Tridymite (silicon dioxide)	15468-32-3	P3	
Trimethylbenzene	526-73-8	A	
Trisodium phosphate	7601-54-9	P3	
Vanadium oxide (dust)	1314-62-1	P3	
Vinyl acetate	108-05-4	A	
Vinyl chloride	75-01-4	AX	4, 5
Vinyl toulene	25013-15-4	A	
Vinylidene chloride	75-35-4	AX	
White spirit	8052-41-3	A	
Xylene	1330-20-7	A	5
Zinc chloride (smoke)	7646-85-7	P3	
Zinc oxide (smoke)	1314-13-2	P3	

Notes:

1. Combinations of filters shall be used.
2. Combination filter SR 299-2 ABEK1 HG P3 Type Hg - maximum use time 50 hours.
3. Full face mask should be used.
4. Carcinogenic
5. Skin adsorbing
6. Regarded as a sensitizer

Filter recommendations

Substance	CAS-no	Filter	Note
1, 2-Dichloroethane	107-06-2	A	
2-Nitropropane	79-46-9	A	4
2-Propanol	67-63-0	A	
Acetaldehyde	75-07-0	AX	4
Acetamide	60-35-5	A+P3	1, 4
Acetic acid	64-19-7	B	
Acetic anhydride	108-24-7	B	
Acetone	67-64-1	AX	
Acetylchloride	75-36-5	B	
Acetylene	74-86-2	Compr.air eq	
Acrolein	107-02-8	AX	3
Acrylamide	79-06-1	A+P3	1, 4, 5
Acrylic acid	79-10-7	B	
Acrylonitrile	107-13-1	A	4
Adipic acid	124-04-9	P3	
Aliphatic naphta	8052-41-3	A	
Allyl alcohol	107-18-6	A	3
Allyl chloride	107-05-1	AX	5
Allylamine	107-11-9	K	5
Aluminium chloride	7446-70-0	B+P3	1
Aluminium oxide	1344-28-1	P3	
Ammonia	7664-41-7	K	
Amyl acetate	628-63-7	A	
Aniline	62-53-3	K	4, 5
Antifouling paints		A+P3	1
Antimony	7440-36-0	P3	
Antimony hydride	7803-52-3	B	
Aromatic naphta		A	
Arsenic (not arsine)	7440-38-2	P3	
Arsine	7784-42-1	B	
Barium	7440-39-3	P3	
Benzaldehyde	100-52-7	A	
Benzene	71-43-2	A	4
Benzotriazole	95-14-7	A+P3	1
Benzoyl chloride	98-88-4	B	
Benzyl alcohol	100-51-6	A	
Benzyl chloride	100-44-7	B	3, 4
Beryllium	7440-41-7	P3	4, 6
Biphenyl	92-52-4	A+P3	1
Bromine	7726-95-6	B	
Butyl acetate	123-86-4	A	
Butyl alcohol	71-36-3	A	
Butyr aldehyde	123-72-8	A	
Cadmium	7440-43-9	P3	4
Calcium oxide	1305-78-8	P3	
Carbon dioxide	124-38-9	Compr.air eq	
Carbon disulphide	75-15-0	AX	5
Carbon monoxide	630-08-0	Compr.air eq	
Carbontetrachloride	56-23-5	A	4

Substance	CAS-no	Filter	Note
Chlorate		P3	
Chlorine	7782-50-5	B	
Chlorine dioxide	10049-04-4	B	
Chloroform	67-66-3	AX	4
Chloroprene	126-99-8	AX	4
Chromic acid	1333-82-0	P3	4, 6
Cobalt (dust and smoke)	7440-48-4	P3	6
Cresol	1319-77-3	A+P3	1
Cumene	98-82-8	A	5
Cupper	7440-50-8	P3	
Cutton dust		P3	
Cyanide (as CN)	57-12-5	B+P3	1, 3
Cyclohexanol	108-93-0	A+P3	1
Cyclohexanone	108-94-1	A	
Diacetone alcohol	123-42-2	A	3
Diglycidyl ether	2238-07-5	A	3, 6
Dimethyl sulphate	77-78-1	A	3, 4, 5
Dimethylformamide	68-12-2	A	4, 5
Dioxane	123-91-1	A	4, 5
Dust, inert		P3	
EDTA	60-00-4	P3	
Epichlorohydrin	106-89-8	A	4, 5, 6
Ethanol	64-17-5	A	
Ethyl acetate	141-78-6	A	
Ethyl acrylate	140-88-5	A	4, 5, 6
Ethyl bromide	74-96-4	AX	3
Ethyl chloride	75-00-3	AX	4
Ethyl ether	60-29-7	AX	
Ethylene glycol	107-21-1	A	
Ethylene oxide	75-21-8	AX	4, 5
Ethylenediamine	107-15-3	K	3, 6
Ferrous chloride		BE+P3	1
Ferrous oxide (smoke)	1309-37-1	P3	
Fluor	7782-41-4	B	
Fluoride (as F)		P3	
Fluorosilisic acid	16961-83-4	B+P3	1
Formaldehyde	50-00-0	B	4, 5, 6
Formic acid	64-18-6	E	
Freon 113	76-13-1	Compr.air eq	
Furfural	98-01-1	A	
Glutaraldehyde	111-30-8	A	6
Glycolmonobutyl ether	111-76-2	A	5
Glycolmonomethyl ether	109-86-4	A	5
Hydrazine	302-01-2	K	3, 4, 5, 6
Hydrochloric acid	7647-01-0	B	
Hydrofluoric acid	7664-39-3	B+P3	1
Hydrogen cyanide	74-90-8	B	3, 5
Hydrogen peroxide	7722-84-1	Compr.air eq	
Hydrogen selenide	7783-07-5	B	3

Compressed air equipment can always be used instead of a filter respirator. It should always be used if the gas concentrations are in excess of 0.5% by volume. Should be used for physically strenuous or long-duration work.

N.B. Compressed-air supplied equipment should not be used where there is danger of loss of consciousness or asphyxiation.

Advice concerning the selection of filters and the method of use can always be obtained directly from Sundström Safety AB.

Pre-filter SR 221 should always be used. N.B. This pre-filter can never replace particle filter SR 510.

These recommendations are derived from a number of different sources and they follow the current Swedish regulation. Note that there can be national differences in the regulations for use of respiratory protective equipment.

Substance	CAS-no	Filter	Note
Hydrogen sulphide	7783-06-4	B	
Hydrogene	1333-74-0	Compr.air eq	
Hydroquinone	123-31-9	P3	4, 6
Iodine	7553-56-2	P3	3
Isophorone	78-59-1	A	
Isoprophyl alcohol	67-63-0	A	
Lead (smoke and dust)	7439-92-1	P3	
Maleic anhydride	108-31-6	B+P3	1, 6
Mangan	7439-96-5	P3	
MDI	101-68-8	B+P3	1, 6
MEK	78-93-3	A	5
Melamine	108-78-1	Compr.air eq	
Mercury (vapour)	7439-97-6	Hg-P3	2, 5, 6
Methyl acrylate	96-33-3	A	5, 6
Methyl alcohol	67-56-1	AX	5
Methyl bromide	74-83-9	AX	3, 5
Methyl chloride	74-87-3	AX	4
Methyl ethyl ketone (MEK)	78-93-3	A	5
Methyl iodide	74-88-4	AX	4, 5
Methyl isobutylketone (MIBK)	108-10-1	A	3, 5
Methyl methacrylate	80-62-6	A	5, 6
Methylamine	74-89-5	K	
Methylchloroform	71-55-6	A	
Methylene chloride	75-09-2	AX	4
MIBK	108-10-1	A	3, 5
Monomethylamine	74-89-5	K	
Morpholine	110-91-8	A	5
Nickel carbonyl	13463-39-3	Compr.air eq	4, 5
Nickel, metal	7440-02-0	P3	4, 6
Nitric acid	7697-37-2	B	
Nitrobenzene	98-95-3	A	5
Nitrogen	7727-37-9	Compr.air eq	
Nitrogen dioxide	10102-44-0	Compr.air eq	
Nitrogen oxide	10102-43-9	Compr.air eq	
Nitroglycerine	55-63-0	A	5
Nitroglycol	628-96-6	A	5
Nitrous gas		Compr.air eq	
Nitrous oxide	10024-97-2	Compr.air eq	
Octane	111-65-9	A	
Organic peroxides		A+P3	1
Oxalic acid	144-62-7	P3	
Ozone	10028-15-6	B	
p-Phenylenediamine	106-50-3	P3	3, 6
PCB		A+P3	1, 4, 5
Pentachlorophenol	87-86-5	P3	4, 5
Perchloric acid	7601-90-3	BE	
Perchloroethylene	127-18-4	A	4, 5
Petrol	86290-81-5	AX	
Phenol	108-95-2	B+P3	1, 5

Substance	CAS-no	Filter	Note
Phosgene	75-44-5	B	
Phosphine	7803-51-2	B	
Phosphoric acid (mist)	7664-38-2	BE+P3	1
Phthalic anhydride	85-44-9	P3	6
Piperazine	110-85-0	K+P3	1, 6
Piperidine	110-89-4	K	
Potassium hydroxide	1310-58-3	P3	
Potassium permanganate	7722-64-7	P3	
Propinoic acid	79-09-4	B	
Pyridine	110-86-1	A	
Selenium	7782-49-2	P3	
Selenium sulphide	7782-49-2	P3	4
Silicon dioxide	14464-46-1	P3	4
Silver nitrate	7761-88-8	P3	
Sodium carbonate	497-19-8	P3	
Sodium fluoride	7681-49-4	P3	
Sodium hydroxide	1310-73-2	P3	
Sodium hypochlorite	7681-52-9	B+P3	1
Sodium perborate	10486-00-7	P3	
Sodium silicate	6834-92-0	P3	3
Styrene	100-42-5	A	5
Sulfamic acid	5329-14-6	B+P3	1
Sulfur dioxide	7446-09-5	E	
Sulphuric acid (mist)	7664-93-9	E+P3	1
TDI	91-08-7	Compr.air eq	4, 6
Terpentine (oil)	8006-64-2	A	5, 6
Tetrachloroethylene	127-18-4	A	5, 6
Tetraethyl lead	78-00-2	A+P3	1, 5
Tetrahydrofuran	109-99-9	A	
Tetramethyl lead	75-74-1	A+P3	1, 5
Toluene	108-88-3	A	5
Tributyl phosphate	126-73-8	A	
Trichloroethane	71-55-6	A	
Trichloroethylene	79-01-6	A	4
Tridymite (silicon dioxide)	15468-32-3	P3	
Trimethylbenzene	526-73-8	A	
Trisodium phosphate	7601-54-9	P3	
Vanadium oxide (dust)	1314-62-1	P3	
Vinyl acetate	108-05-4	A	
Vinyl chloride	75-01-4	AX	4, 5
Vinyl toulene	25013-15-4	A	
Vinylidene chloride	75-35-4	AX	
White spirit	8052-41-3	A	
Xylene	1330-20-7	A	5
Zinc chloride (smoke)	7646-85-7	P3	
Zinc oxide (smoke)	1314-13-2	P3	

Notes:
1. Combinations of filters shall be used.
2. Combination filter SR 299-2 ABEK1 HG P3 Type Hg - maximum use time 50 hours.
3. Full face mask should be used.
4. Carcinogenic
5. Skin adsorbing
6. Regarded as a sensitizer

Phosgene

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
phosgene

SYNONYMS
C-O-Cl2, "carbonic acid dichloride", "carbonyl chloride", "chloroformyl chloride", "carbon oxychloride", "carbon dichloride oxide", diphosgene, "Combat gas", CG

PROPER SHIPPING NAME
PHOSGENE

PRODUCT USE
■ The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation. Organic synthesis, especially of isocyanates, polyurethane and polycarbonate resins, carbamates, organic carbonates and chloroformates, pesticides, herbicides and dye manufacture.

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE
HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max
Flammability:	0	
Toxicity:	4	
Body Contact:	3	
Reactivity:	2	
Chronic:	2	

Min/Nil=0
Low=1
Moderate=2
High=3
Extreme=4

POISONS SCHEDULE
None

RISK	SAFETY
■ Reacts violently with water.	• Never add water to this product.
■ Very toxic by inhalation.	• Keep locked up.
■ Causes burns.	• Do not breathe gas/fumes/vapour/spray.
■ Risk of serious damage to eyes.	• Avoid contact with skin.
■ Risk of explosion if heated under confinement.	• Avoid contact with eyes.
■ Skin contact may	• Wear suitable protective clothing.

229

produce health damage*.

■ Cumulative effects may result following exposure*.

* (limited evidence).

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Wear suitable gloves.
- Wear eye/face protection.
- Keep container dry.
- Use only in well ventilated areas.
- Keep container in a well ventilated place.
- Keep in a cool place.
- Keep container tightly closed.
- This material and its container must be disposed of in a safe way.
- Keep away from food, drink and animal feeding stuffs.
- Take off immediately all contaminated clothing.
- In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.
- In case of accident or if you feel unwell IMMEDIATELY contact Doctor or Poisons Information Centre (show label if possible).
- This material and its container must be disposed of as hazardous waste.
- In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
phosgene	75-44-5	> 99

Section 4 - FIRST AID MEASURES

SWALLOWED

- Not considered a normal route of entry.

EYE

- If product comes in contact with eyes remove the patient from gas source or contaminated area.
- Take the patient to the nearest eye wash, shower or other source of clean water.
- Open the eyelid(s) wide to allow the material to evaporate.
- Gently rinse the affected eye(s) with clean, cool water for at least 15 minutes. Have the patient lie or sit down and tilt the head back. Hold the eyelid(s) open

and pour water slowly over the eyeball(s) at the inner corners, letting the water run out of the outer corners.

SKIN
If skin or hair contact occurs:

- Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- Transport to hospital, or doctor.

INHALED

- Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.
- Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).
- As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.
- Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.

- Following exposure to gas, remove the patient from the gas source or contaminated area.
- NOTE: Personal Protective Equipment (PPE), including positive pressure self-contained breathing apparatus may be required to assure the safety of the rescuer.
- Prostheses such as false teeth, which may block the airway, should be removed, where possible, prior to initiating first aid procedures.
- If the patient is not breathing spontaneously, administer rescue breathing.

NOTES TO PHYSICIAN
■ Depending on the degree of exposure, periodic medical examination is indicated. The symptoms of lung oedema often do not manifest until a few hours have passed and they are aggravated by physical effort.
For phosgene:

- Toxic effects of phosgene may be delayed and any person exposed to phosgene should be medically observed for onset of symptoms for at least 24 hours.
- In the absence of special detector badges worn by workers, there is no way of knowing the extent of phosgene exposure. But if one waits for the appearance of symptoms, pulmonary oedema may be lethal. Consequently, any exposed person must be treated as if the exposure is life threatening. The person should be kept at rest and given a glucocorticoid anti-inflammatory medication, and should be given oxygen-enriched air.

[Patty's]<.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

FIRE FIGHTING

GENERAL

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear full body protective clothing with breathing apparatus.
- Fight fire from a safe distance, with adequate cover.

FIRE/EXPLOSION HAZARD

- Containers may explode when heated - Ruptured cylinders may rocket
- May burn but does not ignite easily.
- Fire exposed cylinders may vent contents through pressure relief devices thereby increasing vapour concentration.
- Fire may produce irritating, poisonous or corrosive gases.

Decomposition may produce toxic fumes of: carbon monoxide (CO), carbon dioxide (CO2), hydrogen chloride, phosgene, other pyrolysis products typical of burning organic material.
Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.
FIRE INCOMPATIBILITY

- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

HAZCHEM
2XE

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

- Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
- Check regularly for spills and leaks.

- Avoid breathing vapour and any contact with liquid or gas. Protective equipment including respirator should be used.
- DO NOT enter confined spaces were gas may have accumulated.
- Increase ventilation.

- Clear area of personnel.

Refer to **MAJOR SPILLS**.
MAJOR SPILLS

- Clear area of all unprotected personnel and move upwind.
- Alert Emergency Authority and advise them of the location and nature of hazard.
- Wear full body clothing with breathing apparatus.
- Prevent by any means available, spillage from entering drains and water-courses.

- Remove leaking cylinders to a safe place.
- Fit vent pipes. Release pressure under safe, controlled conditions
- Burn issuing gas at vent pipes.

- DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve.

Remove leaking cylinders to a safe place. Release pressure under safe controlled conditions by opening the valve. Ammonia and sodium hydroxide solution have been reported to be useful in neutralising phosgene gas.
Contain liquid spills with sand, earth or vermiculite.
Use soda ash or slaked lime to neutralise.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Consider use in closed pressurised systems, fitted with temperature, pressure and safety relief valves which are vented for safe dispersal.
- The tubing network design connecting gas cylinders to the delivery system should include appropriate pressure indicators and vacuum or suction lines.
- Fully-welded types of pressure gauges, where the bourdon tube sensing element is welded to the gauge body, are recommended.
- Before connecting gas cylinders, ensure manifold is mechanically secure and does not containing another gas. Before disconnecting gas cylinder, isolate supply line segment proximal to cylinder, remove trapped gas in supply line with aid of vacuum pump

- DO NOT transfer gas from one cylinder to another.

SUITABLE CONTAINER

- Cylinder:
- Ensure the use of equipment rated for cylinder pressure.
- Ensure the use of compatible materials of construction.
- Valve protection cap to be in place until cylinder is secured, connected.

STORAGE INCOMPATIBILITY

Phosgene

- decomposes slowly in water producing hydrochloric acid and carbon monoxide
- reacts violently with strong oxidisers, anhydrous ammonia, amines, isopropanol, chemically active metals, phenols silicon tetrahydride, powdered aluminium, potassium, sodium, lithium
- forms shock-sensitive materials with potassium
- is incompatible with tert-butylazidoformate, sodium azide

Acyl halides:

- tend to react violently with protic organic solvents, water, and the aprotic solvents, dimethylformamide and dimethyl sulfoxide.
- may react dangerously with ethers .
- may react violently or explosively with sulfoxides in the absence of diluent or other effective control of reaction rate; violent reactions may be explained in terms of exothermic polymerisation of formaldehyde which is formed under a variety of conditions by interaction of the sulfoxide with reactive halides.

- Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous

- Segregate from alcohol, water.

- Avoid strong bases.

- Avoid reaction with oxidising agents

PACKAGING MATERIAL INCOMPATIBILITIES

Chemical Name	Container Type
Chlorinated Glue	"Acetal (Delrinr)", "Cast iron", Neoprene

STORAGE REQUIREMENTS

- Outside or detached storage is preferred.

- Cylinders should be stored in a purpose-built compound with good ventilation, preferably in the open.
- Such compounds should be sited and built in accordance with statutory requirements.
- The storage compound should be kept clear and access restricted to authorised personnel only.
- Cylinders stored in the open should be protected against rust and extremes of weather.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³	Peak ppm	Peak mg/m³	TWA F/CC	Notes

Australia Exposure Standards	phosgene (Phosgene)	0.02	0.08	0.06	0.25

PERSONAL PROTECTION



EYE

- Chemical goggles.
- Full face shield may be required for supplementary but never for primary protection of eyes
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

HANDS/FEET

- Neoprene gloves
- When handling sealed and suitably insulated cylinders wear cloth or leather gloves.

OTHER

- Overalls.
- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Eyewash unit.

ENGINEERING CONTROLS

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard

"physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Colourless, poisonous, non-flammable gas or volatile liquid with a characteristic sweet odour of musty hay. Slightly soluble in water and is hydrolysed to carbon dioxide and hydrochloric acid; corrosive in the presence of water and reacts with most metals to produce hydrogen. Freely soluble in benzene, toluene, glacial acetic acid, liquid hydrocarbons Note: All chlorinated hydrocarbon liquids in a fire evolve phosgene.

PHYSICAL PROPERTIES

Gas.
Does not mix with water.
Sinks in water.
Corrosive.
Toxic or noxious vapours/gas.
Reacts violently with water.

State	Compressed gas	Molecular Weight	98.92
Melting Range (°C)	-127.8	Viscosity	Not Applicable
Boiling Range (°C)	7.6	Solubility in water (g/L)	Immiscible
Flash Point (°C)	Not Applicable	pH (1% solution)	Not applicable
Decomposition Temp (°C)	Not Available	pH (as supplied)	Not applicable
Autoignition Temp (°C)	Not applicable.	Vapour Pressure (kPa)	162 @ 20 C
Upper Explosive Limit (%)	Not applicable.	Specific Gravity (water=1)	1.381 @ 20 C.
Lower Explosive Limit (%)	Not applicable.	Relative Vapour Density (air=1)	3.4 @ 20 C.
Volatile Component		Evaporation	Not

(% vol)	100	Rate	available

Section 10 - CHEMICAL STABILITY

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS	CHRONIC HEALTH EFFECTS
■ Very toxic by inhalation.	■ Cumulative effects may result following exposure*.
■ Causes burns.	■ * (limited evidence).
■ Risk of serious damage to eyes.	
■ Skin contact may produce health damage*.	
■ * (limited evidence).	

TOXICITY AND IRRITATION

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.

For phosgene:

In view of the extremely short half-life (0.026 seconds) in aqueous solutions, and the penetration into the tissues of the respiratory tract by phosgene gas, only minimal amounts of phosgene are distributed in the body and no significant retention of phosgene in the body is possible. The hydrolytic products of phosgene, hydrochloric acid and carbon dioxide, are disposed by the body through normal physiological processes.

Section 12 - ECOLOGICAL INFORMATION

This material and its container must be disposed of as hazardous waste.

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
phosgene	LOW	LOW	LOW	HIGH

Section 13 - DISPOSAL CONSIDERATIONS

- Evaporate residue at an approved site.
- Return empty containers to supplier. If containers are marked non-returnable establish means of disposal with manufacturer prior to purchase.
- Ensure damaged or non-returnable cylinders are gas-free before disposal.

Section 14 - TRANSPORTATION INFORMATION

Labels Required: TOXIC GAS,CORROSIVE
HAZCHEM:
2XE (ADG7)
Land Transport UNDG:

Class or division:	2.3	Subsidiary risk:	8
UN No.:	1076	UN packing group:	None

Shipping Name:PHOSGENE
Air Transport IATA:

ICAO/IATA Class:	None	UN/ID Number:	None
Packing Group:	-	Special provisions:	None
		Cargo Only Packing Instructions:	-
Maximum Qty/Pack:	-	Passenger and Cargo Packing Instructions:	-
Passenger and Cargo Limited Quantity Maximum Qty/Pack:	-	Passenger and Cargo Limited Quantity Packing Instructions:	-

Shipping Name: CARBONYL CHLORIDE, SEE PHOSGENE (UN 1076)
Maritime Transport IMDG:

IMDG Class:	2.3	IMDG Subrisk:	8
UN Number:	1076	Packing Group:	None
EMS Number:	F-C,S-U	Special provisions:	None
Limited Quantities:	0		

Shipping Name: PHOSGENE

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE
None

REGULATIONS
phosgene (CAS: 75-44-5) is found on the following regulatory lists;
"Australia - Queensland Hazardous Materials and Prescribed Quantities for Major Hazard Facilities","Australia Chemical Weapons (Prohibition) Act 1994 - Schedule 3","Australia Exposure Standards","Australia Hazardous Substances","Australia Inventory of Chemical Substances (AICS)","Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on their Destruction (English)","International Council of Chemical Associations (ICCA) - High Production Volume List"

Section 16 - OTHER INFORMATION

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

Issue Date: 17-Apr-2009
Print Date:16-Sep-2011

219

ACTFB Detector Summary

PID – Photo Ionisation Detector

The PID is a compact monitor designed as a broadband VOC (volatile organic compound) gas monitor and data logger for work in hazardous environments. It monitors VOC's using a photo ionisation detector with a 9.9eV, 10.6eV, or 11.7eV gas discharge lamp.

It has the capability of continuous monitoring for up to 10 hours with a rechargeable and alkaline battery pack back up.

It gives real time measurements and activates alarm signals whenever the exposure exceeds the preset limits. The preset alarms limits are for STEL, TWA, low and high peak values.

The PID has the ability to automatically date and time stamp the data logged information.

The PID is calibrated to isobutylene and has a range of 0.1ppm – 10,000ppm which makes it ideal instrument for applications from environmental site surveying to Hazmat/Homeland security.

The ACTFB's PID's:

- Utilises a 10.6eV lamp
- Operated in "Hygiene" mode, which means that the monitor runs continuously once it is turned on

The FRNSW PID:

- Had a 11.7eV lamp installed

The instrument has the ability to detect the presence of over 300 volatile organic compounds, however, it is unable to identify a specific compound or range of compounds detected. In general, any compound with an ionisation energy lower than the lamp installed can be measured.

Enables a determination of 'safety' primarily for ur FFs but also the community.

Safe if under 0·5 (middle column)

QRae 4 head detector

The QRae 4 head detector is a multi gas monitor designed to provide continuous exposure monitoring of toxic gases – Hydrogen Sulphide and Carbon Monoxide; Oxygen and Combustible gases for workers in hazardous environments.

The instrument has the following ranges for the relevant sensors:

LEL (lower explosive limit)	0 – 100% of the LEL	5% first alarm
		10% second alarm
Oxygen	0 – 30%	19.5% low alarm
		23.5% high alarm
Carbon Monoxide	0 – 500ppm	30ppm low alarm
		50ppm high alarm
Hydrogen Sulphide	0 – 100ppm	10ppm low alarm
		20ppm high alarm

It has the capability of continuous monitoring for up to 20 hours with a rechargeable Li-ion battery. The unit also has an alkaline battery backup.

The QRae has data logging capabilities along with both average and peak values being recorded for each sensor.

For further information on either the PID or QRae, the supplier and servicing agent for Rae systems instruments – Active Environmental Solutions should be contacted on _____

AP2C

The AP2C is a flame spectrophotometer for gas detection.

In essence, it has the capability of detecting Sulphur and Phosphorous based chemicals. It was primarily developed for CWA (Chemical Warfare Agent) detection and as such is a very sensitive detection device.

Nerve gases are detected by analysing the emission spectrum if phosphorous is contained in the gases, whereas, mustard gases are detected by analysing the emission spectrum of sulphur contained in the gas. In addition, highly toxic nerve gases such as Vx are detected by the simultaneous analysis of phosphorous and sulphur spectral emission.

The instrument has the following main characteristics:

- A continuous air sampling (80l/h)
- A fast response
- It is unaffected by humidity
- Sulphur, phosphorous based chemicals can be simultaneously detected

For further information on the capabilities of the AP2C, Point Trading, the distributor and servicing agent, should be contacted.

The ACTFB utilised these atmospheric monitors during the evolution of the Mitchell fire.

No readings of significance are evident on the down loaded data log of instruments used, as well as the written records on the associated maps.

The identified sites indicated on the maps were sites where detection was carried out. They represent areas that were inside and outside the exclusion zones, and confirm that at the time of the respective measurements, there were no readings of significance, **within the capabilities of the monitoring devices.**

It should be noted that the above instruments are capable of detecting a wide range of chemicals (refer to the attached lists); however, they are unable to identify the specific vapours or compounds encountered.

In addition to the ACTFB's detection regime;

- FRNSW utilised PID's with an 11.7eV lamp which allows for a wider range of compounds to be detected.
- EPA performed some soil and water testing.

QRAE II

File: C:\PROGRAM FILES\...\DataPGM-2400_181-109236_20110927_082629.dlg

9/215

(6)

=========Event #23 information (begin)=========

[Event #23 name:]--[Event #23]21-09-2011 08:53<-->21-09-2011 09:05

[Event start time:]--21-09-2011 08:53:21[Event end time:]--21-09-2011 09:05:21

==========Event #23 head information==========

Product Name: QRAE II Model Name: PGM-2400 Serial Number: 181-109236

Data Points: 12 Sample Period: 60 s

Sensor Information :	CO(ppm)	H2S(ppm)	SPE(%)	LEL(%)
Drift Value :				
Low Alarm Levels :	30	10.0	19.5	5
High Alarm Levels :	50	20.0	23.5	10
Span Value :	50	10.0	18.0	50
Correction Factor :	---	---	---	1.00
Over Alarm Levels :	1000	100.0	30.0	100

==========Event #23 data informations==========

LINE#	Date/Time	CO(ppm)	H2S(ppm)	SPE(%)	LEL(%)
1	21-09-2011 08:54	0	0.0	20.9	0
2	21-09-2011 08:55	0	0.0	20.9	0
3	21-09-2011 08:56	0	0.0	20.9	0
4	21-09-2011 08:57	0	0.0	20.9	0
5	21-09-2011 08:58	0	0.0	20.9	0
6	21-09-2011 08:59	0	0.0	20.9	0
7	21-09-2011 09:00	0	0.0	20.9	0
8	21-09-2011 09:01	32	3.5	18.6	39
9	21-09-2011 09:02	48	6.4	17.9	51
10	21-09-2011 09:03	48	7.2	17.9	51
11	21-09-2011 09:04	26	3.9	19.3	28
12	21-09-2011 09:05	24	3.1	19.4	22

==========Event #23 information (end)==========

QRAE II

#5
214

File: C:\PROGRAM FILES\...\DataPGM-2400_181-109227_20110927_084427.dlg

==========Event #35 information (begin)==========

[Event #35 name:]--[Event #35]21-09-2011 09:51<-->21-09-2011 10:09

[Event start time:]--21-09-2011 09:51:40[Event end time:]--21-09-2011 10:09:40

==========Event #35 head information==========

Product Name: QRAE II Model Name: PGM-2400 Serial Number: 181-109227

Data Points: 18 Sample Period: 60 s

Sensor Information :	CO(ppm)	H2S(ppm)	SPE(%)	LEL(%)
Drift Value :				
Low Alarm Levels :	30	10.0	19.5	5
High Alarm Levels :	50	20.0	23.5	10
Span Value :	50	10.0	18.0	50
Correction Factor :	---	---	---	1.00
Over Alarm Levels :	1000	70.0	30.0	100

==========Event #35 data informations==========

LINE#	Date/Time	CO(ppm)	H2S(ppm)	SPE(%)	LEL(%)
1	21-09-2011 09:52	0	0.0	20.9	0
2	21-09-2011 09:53	0	0.0	20.9	0
3	21-09-2011 09:54	0	0.0	20.9	0
4	21-09-2011 09:55	0	0.0	20.9	0
5	21-09-2011 09:56	0	0.0	20.9	0
6	21-09-2011 09:57	0	0.0	20.9	0
7	21-09-2011 09:58	0	0.0	20.9	0
8	21-09-2011 09:59	0	0.0	20.9	0
9	21-09-2011 10:00	26	4.8	19.0	31
10	21-09-2011 10:01	6	0.3	20.7	2
11	21-09-2011 10:02	0	0.0	20.9	0
12	21-09-2011 10:03	0	0.0	20.9	0
13	21-09-2011 10:04	0	0.0	20.9	0
14	21-09-2011 10:05	0	0.0	20.9	0
15	21-09-2011 10:06	0	0.0	20.9	0

le: C:\PROGRAM FILES\...\DataPGM-2400_181-109227_20110927_084427.dlg

=========Event #34 information (begin)=========

[Event #34 name:]--[Event #34]17-09-2011 00:34<-->17-09-2011 00:50

[Event start time:]--17-09-2011 00:34:21[Event end time:]--17-09-2011 00:50:21

==========Event #34 head information==========

Product Name: QRAE II Model Name: PGM-2400 Serial Number: 181-109227

Data Points: 16 Sample Period: 60 s

Sensor Information :	CO(ppm)	H2S(ppm)	SPE(%)	LEL(%)
Drift Value :				
Low Alarm Levels :	30	10.0	19.5	5
High Alarm Levels :	50	20.0	23.5	10
Span Value :	50	10.0	18.0	50
Correction Factor :	---	---	---	1.00
Over Alarm Levels :	1000	70.0	30.0	100

==========Event #34 data informations==========

LINE#	Date/Time	CO(ppm)	H2S(ppm)	SPE(%)	LEL(%)
1	17-09-2011 00:35	0	0.0	20.9	0
2	17-09-2011 00:36	0	0.0	20.9	0
3	17-09-2011 00:37	0	0.0	20.9	0
4	17-09-2011 00:38	0	0.0	20.9	0
5	17-09-2011 00:39	0	0.0	20.9	0
6	17-09-2011 00:40	0	0.0	20.9	0
7	17-09-2011 00:41	0	0.0	20.9	0
8	17-09-2011 00:42	0	0.0	20.9	0
9	17-09-2011 00:43	0	0.0	20.9	0
10	17-09-2011 00:44	0	0.0	20.9	0
11	17-09-2011 00:45	0	0.0	20.9	0
12	17-09-2011 00:46	0	0.0	20.9	0
13	17-09-2011 00:47	0	0.0	20.9	0
14	17-09-2011 00:48	0	0.0	20.9	0
15	17-09-2011 00:49	2	0.0	20.9	0

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

212

UNIT #3 PID ppm 3000

==========Event #37 information (begin)==========

[Event #37 name:]--[Event #37]15-09-2011 23:40<-->16-09-2011 02:20

[Event start time:]--15-09-2011 23:40:44[Event end time:]--16-09-2011 02:20:44

==========Event #37 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903773

Data Points: 160 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00002 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	: PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	: Isobutene		
Calibration Time	: 2011-07-22 21:02:002011-07-22 21:02:002011-07-22 21:02:00		
Drift Value	: ---	---	---
Low Alarm Levels	: 50.000	50.000	50.000
High Alarm Levels	: 100.000	100.000	100.000
Span Value	: 100.000	100.000	100.000
Correction Factor	: 1.00	1.00	1.00
Over Alarm Levels	: 15000.000	15000.000	15000.000

==========Event #37 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	15-09-2011 23:41	0.000	0.000	0.000
2	15-09-2011 23:42	0.000	0.000	0.000
3	15-09-2011 23:43	0.000	0.000	0.000
4	15-09-2011 23:44	0.006	0.069	0.000
5	15-09-2011 23:45	0.001	0.034	0.034
6	15-09-2011 23:46	0.003	0.034	0.000
7	15-09-2011 23:47	0.000	0.000	0.000
8	15-09-2011 23:48	0.000	0.000	0.000
9	15-09-2011 23:49	0.000	0.000	0.000
10	15-09-2011 23:50	0.000	0.000	0.000
11	15-09-2011 23:51	0.000	0.000	0.000
12	15-09-2011 23:52	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #37 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
28	16-09-2011 00:08	0.000	0.000	0.000
29	16-09-2011 00:09	0.000	0.000	0.000
30	16-09-2011 00:10	0.000	0.000	0.000
31	16-09-2011 00:11	0.000	0.000	0.000
32	16-09-2011 00:12	0.049	0.167	0.043
33	16-09-2011 00:13	0.065	0.275	0.020
34	16-09-2011 00:14	0.057	0.368	0.355
35	16-09-2011 00:15	0.064	0.355	0.000
36	16-09-2011 00:16	0.000	0.000	0.000
37	16-09-2011 00:17	0.000	0.000	0.000
38	16-09-2011 00:18	0.000	0.000	0.000
39	16-09-2011 00:19	0.000	0.000	0.000
40	16-09-2011 00:20	0.000	0.000	0.000
41	16-09-2011 00:21	0.052	0.130	0.030
42	16-09-2011 00:22	0.022	0.052	0.000
43	16-09-2011 00:23	0.000	0.000	0.000
44	16-09-2011 00:24	0.000	0.000	0.000
45	16-09-2011 00:25	0.006	0.079	0.008
46	16-09-2011 00:26	0.006	0.018	0.020
47	16-09-2011 00:27	0.021	0.026	0.019
48	16-09-2011 00:28	0.005	0.020	0.000
49	16-09-2011 00:29	0.000	0.000	0.000
50	16-09-2011 00:30	0.000	0.000	0.000
51	16-09-2011 00:31	0.000	0.000	0.000
52	16-09-2011 00:32	0.007	0.019	0.020
53	16-09-2011 00:33	0.020	0.027	0.017
54	16-09-2011 00:34	0.009	0.018	0.014
55	16-09-2011 00:35	0.022	0.030	0.031
56	16-09-2011 00:36	0.034	0.041	0.041
57	16-09-2011 00:37	0.043	0.050	0.049
58	16-09-2011 00:38	0.039	0.052	0.041

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #37 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
74	16-09-2011 00:54	0.079	0.221	0.032
75	16-09-2011 00:55	0.087	0.255	0.051
76	16-09-2011 00:56	0.102	0.210	0.092
77	16-09-2011 00:57	0.091	0.230	0.062
78	16-09-2011 00:58	0.009	0.078	0.109
79	16-09-2011 00:59	0.015	0.149	0.000
80	16-09-2011 01:00	0.021	0.116	0.000
81	16-09-2011 01:01	0.056	0.148	0.002
82	16-09-2011 01:02	0.014	0.104	0.067
83	16-09-2011 01:03	0.025	0.124	0.008
84	16-09-2011 01:04	0.002	0.017	0.000
85	16-09-2011 01:05	0.052	0.180	0.156
86	16-09-2011 01:06	0.138	0.197	0.204
87	16-09-2011 01:07	0.206	0.227	0.190
88	16-09-2011 01:08	0.198	0.232	0.195
89	16-09-2011 01:09	0.152	0.200	0.152
90	16-09-2011 01:10	0.155	0.175	0.176
91	16-09-2011 01:11	0.159	0.185	0.062
92	16-09-2011 01:12	0.058	0.091	0.032
93	16-09-2011 01:13	0.037	0.067	0.040
94	16-09-2011 01:14	0.024	0.054	0.056
95	16-09-2011 01:15	0.036	0.059	0.032
96	16-09-2011 01:16	0.015	0.032	0.021
97	16-09-2011 01:17	0.025	0.041	0.035
98	16-09-2011 01:18	0.019	0.044	0.009
99	16-09-2011 01:19	0.003	0.016	0.000
100	16-09-2011 01:20	0.001	0.012	0.000
101	16-09-2011 01:21	0.000	0.005	0.000
102	16-09-2011 01:22	0.000	0.004	0.000
103	16-09-2011 01:23	0.000	0.000	0.000
104	16-09-2011 01:24	0.000	0.001	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #37 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
120	16-09-2011 01:40	0.000	0.000	0.000
121	16-09-2011 01:41	0.000	0.000	0.000
122	16-09-2011 01:42	0.000	0.002	0.003
123	16-09-2011 01:43	0.000	0.006	0.000
124	16-09-2011 01:44	0.000	0.000	0.000
125	16-09-2011 01:45	0.000	0.000	0.000
126	16-09-2011 01:46	0.000	0.000	0.000
127	16-09-2011 01:47	0.000	0.000	0.000
128	16-09-2011 01:48	0.000	0.009	0.002
129	16-09-2011 01:49	0.024	0.064	0.047
130	16-09-2011 01:50	0.059	0.080	0.059
131	16-09-2011 01:51	0.043	0.065	0.018
132	16-09-2011 01:52	0.016	0.030	0.020
133	16-09-2011 01:53	0.042	0.068	0.051
134	16-09-2011 01:54	0.136	0.274	0.093
135	16-09-2011 01:55	0.162	0.208	0.207
136	16-09-2011 01:56	0.128	0.212	0.085
137	16-09-2011 01:57	0.094	0.131	0.091
138	16-09-2011 01:58	0.136	0.199	0.128
139	16-09-2011 01:59	0.108	0.148	0.088
140	16-09-2011 02:00	0.069	0.123	0.040
141	16-09-2011 02:01	0.033	0.059	0.033
142	16-09-2011 02:02	0.039	0.065	0.020
143	16-09-2011 02:03	0.013	0.035	0.001
144	16-09-2011 02:04	0.003	0.010	0.000
145	16-09-2011 02:05	0.000	0.001	0.000
146	16-09-2011 02:06	0.000	0.000	0.000
147	16-09-2011 02:07	0.000	0.000	0.000
148	16-09-2011 02:08	0.000	0.000	0.000
149	16-09-2011 02:09	0.000	0.000	0.000
150	16-09-2011 02:10	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #38 information (begin)==========

[Event #38 name:]--[Event #38]16-09-2011 02:23<-->16-09-2011 07:01

[Event start time:]--16-09-2011 02:23:07[Event end time:]--16-09-2011 07:01:07

==========Event #38 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903773

Data Points: 278 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00002 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	: PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	: Isobutene		
Calibration Time	: 2011-07-22 21:02:00	2011-07-22 21:02:00	2011-07-22 21:02:00
Drift Value	: ---	---	---
Low Alarm Levels	: 50.000	50.000	50.000
High Alarm Levels	: 100.000	100.000	100.000
Span Value	: 100.000	100.000	100.000
Correction Factor	: 1.00	1.00	1.00
Over Alarm Levels	: 15000.000	15000.000	15000.000

==========Event #38 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	16-09-2011 02:24	0.001	0.012	0.000
2	16-09-2011 02:25	0.000	0.000	0.000
3	16-09-2011 02:26	0.000	0.000	0.000
4	16-09-2011 02:27	0.000	0.000	0.000
5	16-09-2011 02:28	0.000	0.001	0.000
6	16-09-2011 02:29	0.000	0.000	0.000
7	16-09-2011 02:30	0.000	0.005	0.000
8	16-09-2011 02:31	0.000	0.001	0.000
9	16-09-2011 02:32	0.000	0.001	0.001
10	16-09-2011 02:33	0.001	0.005	0.001
11	16-09-2011 02:34	0.002	0.010	0.010
12	16-09-2011 02:35	0.002	0.010	0.004

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #38 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
28	16-09-2011 02:51	0.037	0.054	0.026
29	16-09-2011 02:52	0.034	0.045	0.040
30	16-09-2011 02:53	0.035	0.048	0.049
31	16-09-2011 02:54	0.037	0.049	0.034
32	16-09-2011 02:55	0.037	0.055	0.053
33	16-09-2011 02:56	0.028	0.053	0.020
34	16-09-2011 02:57	0.031	0.062	0.070
35	16-09-2011 02:58	0.040	0.070	0.016
36	16-09-2011 02:59	0.039	0.058	0.030
37	16-09-2011 03:00	0.032	0.044	0.041
38	16-09-2011 03:01	0.039	0.061	0.024
39	16-09-2011 03:02	0.014	0.031	0.015
40	16-09-2011 03:03	0.004	0.016	0.000
41	16-09-2011 03:04	0.001	0.006	0.000
42	16-09-2011 03:05	0.002	0.007	0.000
43	16-09-2011 03:06	0.003	0.009	0.000
44	16-09-2011 03:07	0.003	0.010	0.000
45	16-09-2011 03:08	0.003	0.013	0.007
46	16-09-2011 03:09	0.003	0.015	0.000
47	16-09-2011 03:10	0.005	0.014	0.003
48	16-09-2011 03:11	0.004	0.013	0.012
49	16-09-2011 03:12	0.006	0.014	0.013
50	16-09-2011 03:13	0.007	0.017	0.014
51	16-09-2011 03:14	0.008	0.020	0.003
52	16-09-2011 03:15	0.000	0.004	0.000
53	16-09-2011 03:16	0.000	0.000	0.000
54	16-09-2011 03:17	0.000	0.000	0.000
55	16-09-2011 03:18	0.000	0.000	0.000
56	16-09-2011 03:19	0.000	0.000	0.000
57	16-09-2011 03:20	0.000	0.000	0.000
58	16-09-2011 03:21	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #38 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
74	16-09-2011 03:37	0.000	0.000	0.000
75	16-09-2011 03:38	0.000	0.000	0.000
76	16-09-2011 03:39	0.000	0.000	0.000
77	16-09-2011 03:40	0.000	0.000	0.000
78	16-09-2011 03:41	0.000	0.000	0.000
79	16-09-2011 03:42	0.000	0.000	0.000
80	16-09-2011 03:43	0.000	0.000	0.000
81	16-09-2011 03:44	0.000	0.000	0.000
82	16-09-2011 03:45	0.000	0.000	0.000
83	16-09-2011 03:46	0.000	0.000	0.000
84	16-09-2011 03:47	0.000	0.000	0.000
85	16-09-2011 03:48	0.000	0.000	0.000
86	16-09-2011 03:49	0.000	0.000	0.000
87	16-09-2011 03:50	0.000	0.000	0.000
88	16-09-2011 03:51	0.000	0.000	0.000
89	16-09-2011 03:52	0.000	0.000	0.000
90	16-09-2011 03:53	0.000	0.000	0.000
91	16-09-2011 03:54	0.000	0.000	0.000
92	16-09-2011 03:55	0.000	0.000	0.000
93	16-09-2011 03:56	0.000	0.000	0.000
94	16-09-2011 03:57	0.000	0.000	0.000
95	16-09-2011 03:58	0.000	0.000	0.000
96	16-09-2011 03:59	0.000	0.000	0.000
97	16-09-2011 04:00	0.000	0.000	0.000
98	16-09-2011 04:01	0.000	0.000	0.000
99	16-09-2011 04:02	0.000	0.000	0.000
100	16-09-2011 04:03	0.000	0.000	0.000
101	16-09-2011 04:04	0.000	0.000	0.000
102	16-09-2011 04:05	0.000	0.000	0.000
103	16-09-2011 04:06	0.000	0.000	0.000
104	16-09-2011 04:07	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #38 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
120	16-09-2011 04:23	0.000	0.000	0.000
121	16-09-2011 04:24	0.000	0.000	0.000
122	16-09-2011 04:25	0.000	0.000	0.000
123	16-09-2011 04:26	0.000	0.000	0.000
124	16-09-2011 04:27	0.000	0.000	0.000
125	16-09-2011 04:28	0.000	0.000	0.000
126	16-09-2011 04:29	0.000	0.000	0.000
127	16-09-2011 04:30	0.000	0.000	0.000
128	16-09-2011 04:31	0.000	0.005	0.001
129	16-09-2011 04:32	0.000	0.001	0.000
130	16-09-2011 04:33	0.236	0.342	0.242
131	16-09-2011 04:34	0.299	0.347	0.322
132	16-09-2011 04:35	0.378	0.467	0.478
133	16-09-2011 04:36	0.080	0.478	0.000
134	16-09-2011 04:37	0.010	0.164	0.173
135	16-09-2011 04:38	0.376	0.961	0.598
136	16-09-2011 04:39	0.533	0.832	0.389
137	16-09-2011 04:40	0.220	0.853	0.000
138	16-09-2011 04:41	0.004	0.096	0.109
139	16-09-2011 04:42	0.097	0.247	0.250
140	16-09-2011 04:43	0.152	0.250	0.171
141	16-09-2011 04:44	0.199	0.225	0.226
142	16-09-2011 04:45	0.115	0.247	0.000
143	16-09-2011 04:46	0.000	0.000	0.000
144	16-09-2011 04:47	0.060	0.143	0.117
145	16-09-2011 04:48	0.150	0.186	0.193
146	16-09-2011 04:49	0.110	0.469	0.000
147	16-09-2011 04:50	0.000	0.000	0.000
148	16-09-2011 04:51	0.000	0.000	0.000
149	16-09-2011 04:52	0.001	0.032	0.043
150	16-09-2011 04:53	0.133	0.243	0.117

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #38 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
166	16-09-2011 05:09	0.262	0.318	0.292
167	16-09-2011 05:10	0.296	0.341	0.331
168	16-09-2011 05:11	0.328	0.379	0.328
169	16-09-2011 05:12	0.336	0.412	0.330
170	16-09-2011 05:13	0.358	0.537	0.370
171	16-09-2011 05:14	0.391	0.669	0.410
172	16-09-2011 05:15	0.447	0.577	0.445
173	16-09-2011 05:16	0.221	0.456	0.000
174	16-09-2011 05:17	0.000	0.000	0.000
175	16-09-2011 05:18	0.001	0.020	0.019
176	16-09-2011 05:19	0.125	0.208	0.197
177	16-09-2011 05:20	0.232	0.402	0.202
178	16-09-2011 05:21	0.303	0.508	0.326
179	16-09-2011 05:22	0.048	0.332	0.000
180	16-09-2011 05:23	0.000	0.000	0.000
181	16-09-2011 05:24	0.000	0.000	0.000
182	16-09-2011 05:25	0.064	0.197	0.168
183	16-09-2011 05:26	0.290	0.529	0.252
184	16-09-2011 05:27	0.262	0.299	0.287
185	16-09-2011 05:28	0.278	0.302	0.266
186	16-09-2011 05:29	0.214	0.305	0.000
187	16-09-2011 05:30	0.000	0.000	0.000
188	16-09-2011 05:31	0.000	0.000	0.000
189	16-09-2011 05:32	0.000	0.000	0.000
190	16-09-2011 05:33	0.000	0.000	0.000
191	16-09-2011 05:34	0.000	0.000	0.000
192	16-09-2011 05:35	0.000	0.000	0.000
193	16-09-2011 05:36	0.000	0.000	0.000
194	16-09-2011 05:37	0.000	0.009	0.007
195	16-09-2011 05:38	0.009	0.025	0.000
196	16-09-2011 05:39	0.000	0.002	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #38 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
212	16-09-2011 05:55	0.000	0.000	0.000
213	16-09-2011 05:56	0.000	0.000	0.000
214	16-09-2011 05:57	0.000	0.000	0.000
215	16-09-2011 05:58	0.000	0.000	0.000
216	16-09-2011 05:59	0.000	0.000	0.000
217	16-09-2011 06:00	0.000	0.000	0.000
218	16-09-2011 06:01	0.000	0.000	0.000
219	16-09-2011 06:02	0.000	0.000	0.000
220	16-09-2011 06:03	0.000	0.000	0.000
221	16-09-2011 06:04	0.000	0.000	0.000
222	16-09-2011 06:05	0.000	0.000	0.000
223	16-09-2011 06:06	0.000	0.001	0.000
224	16-09-2011 06:07	0.000	0.008	0.000
225	16-09-2011 06:08	0.000	0.004	0.000
226	16-09-2011 06:09	0.000	0.000	0.000
227	16-09-2011 06:10	0.000	0.000	0.000
228	16-09-2011 06:11	0.000	0.000	0.000
229	16-09-2011 06:12	0.000	0.000	0.000
230	16-09-2011 06:13	0.000	0.000	0.000
231	16-09-2011 06:14	0.000	0.000	0.000
232	16-09-2011 06:15	0.000	0.000	0.000
233	16-09-2011 06:16	0.000	0.000	0.000
234	16-09-2011 06:17	0.000	0.000	0.000
235	16-09-2011 06:18	0.000	0.000	0.000
236	16-09-2011 06:19	0.000	0.000	0.000
237	16-09-2011 06:20	0.000	0.000	0.000
238	16-09-2011 06:21	0.000	0.000	0.000
239	16-09-2011 06:22	0.000	0.000	0.000
240	16-09-2011 06:23	0.000	0.000	0.000
241	16-09-2011 06:24	0.000	0.000	0.000
242	16-09-2011 06:25	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #38 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
258	16-09-2011 06:41	0.000	0.000	0.000
259	16-09-2011 06:42	0.000	0.000	0.000
260	16-09-2011 06:43	0.000	0.000	0.000
261	16-09-2011 06:44	0.000	0.000	0.000
262	16-09-2011 06:45	0.000	0.000	0.000
263	16-09-2011 06:46	0.000	0.000	0.000
264	16-09-2011 06:47	0.000	0.000	0.000
265	16-09-2011 06:48	0.000	0.000	0.000
266	16-09-2011 06:49	0.000	0.000	0.000
267	16-09-2011 06:50	0.000	0.000	0.000
268	16-09-2011 06:51	0.045	0.285	0.254
269	16-09-2011 06:52	0.056	0.254	0.000
270	16-09-2011 06:53	0.000	0.000	0.000
271	16-09-2011 06:54	0.000	0.000	0.000
272	16-09-2011 06:55	0.000	0.000	0.000
273	16-09-2011 06:56	0.000	0.000	0.000
274	16-09-2011 06:57	0.000	0.000	0.000
275	16-09-2011 06:58	0.000	0.000	0.000
276	16-09-2011 06:59	0.000	0.000	0.000
277	16-09-2011 07:00	0.000	0.000	0.000
278	16-09-2011 07:01	0.000	0.000	0.000

==========Event #38 information (end)==========

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #40 information (begin)==========

[Event #40 name:]--[Event #40]19-09-2011 12:33<-->19-09-2011 14:09

[Event start time:]--19-09-2011 12:33:23[Event end time:]--19-09-2011 14:09:23

==========Event #40 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903773

Data Points: 96 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00002 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	Isobutene		
Calibration Time	2011-07-22 21:02:00	2011-07-22 21:02:00	2011-07-22 21:02:00
Drift Value	---	---	---
Low Alarm Levels	50.000	50.000	50.000
High Alarm Levels	100.000	100.000	100.000
Span Value	100.000	100.000	100.000
Correction Factor	1.00	1.00	1.00
Over Alarm Levels	15000.000	15000.000	15000.000

==========Event #40 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	19-09-2011 12:34	0.051	0.075	0.040
2	19-09-2011 12:35	0.030	0.051	0.014
3	19-09-2011 12:36	0.023	0.031	0.025
4	19-09-2011 12:37	0.014	0.035	0.017
5	19-09-2011 12:38	0.018	0.058	0.016
6	19-09-2011 12:39	0.107	0.268	0.030
7	19-09-2011 12:40	0.058	0.261	0.025
8	19-09-2011 12:41	0.039	0.077	0.042
9	19-09-2011 12:42	0.109	0.367	0.123
10	19-09-2011 12:43	0.069	0.140	0.056
11	19-09-2011 12:44	0.118	0.389	0.073
12	19-09-2011 12:45	0.094	0.173	0.076

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903773_20110926_150837.dlg

==========Event #40 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
28	19-09-2011 13:01	0.038	0.042	0.041
29	19-09-2011 13:02	0.038	0.042	0.038
30	19-09-2011 13:03	0.037	0.040	0.037
31	19-09-2011 13:04	0.035	0.037	0.035
32	19-09-2011 13:05	0.034	0.038	0.034
33	19-09-2011 13:06	0.034	0.036	0.034
34	19-09-2011 13:07	0.033	0.037	0.035
35	19-09-2011 13:08	0.033	0.037	0.033
36	19-09-2011 13:09	0.031	0.034	0.032
37	19-09-2011 13:10	0.029	0.032	0.029
38	19-09-2011 13:11	0.027	0.029	0.028
39	19-09-2011 13:12	0.029	0.043	0.028
40	19-09-2011 13:13	0.027	0.030	0.028
41	19-09-2011 13:14	0.026	0.028	0.027
42	19-09-2011 13:15	0.027	0.031	0.028
43	19-09-2011 13:16	0.028	0.032	0.029
44	19-09-2011 13:17	0.030	0.032	0.029
45	19-09-2011 13:18	0.032	0.047	0.047
46	19-09-2011 13:19	0.036	0.047	0.039
47	19-09-2011 13:20	0.032	0.039	0.033
48	19-09-2011 13:21	0.032	0.034	0.034
49	19-09-2011 13:22	0.032	0.035	0.033
50	19-09-2011 13:23	0.033	0.036	0.034
51	19-09-2011 13:24	0.037	0.042	0.039
52	19-09-2011 13:25	0.040	0.047	0.047
53	19-09-2011 13:26	0.044	0.050	0.050
54	19-09-2011 13:27	0.042	0.065	0.046
55	19-09-2011 13:28	0.034	0.047	0.032
56	19-09-2011 13:29	0.030	0.034	0.030
57	19-09-2011 13:30	0.028	0.032	0.028
58	19-09-2011 13:31	0.027	0.029	0.028

File: C:\PROGRAM FILES\...\DataPGM~7320_592-903773_20110926_150837.dlg

==========Event #40 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
74	19-09-2011 13:47	0.021	0.024	0.023
75	19-09-2011 13:48	0.021	0.024	0.021
76	19-09-2011 13:49	0.019	0.021	0.021
77	19-09-2011 13:50	0.020	0.022	0.020
78	19-09-2011 13:51	0.019	0.021	0.020
79	19-09-2011 13:52	0.019	0.023	0.020
80	19-09-2011 13:53	0.019	0.021	0.020
81	19-09-2011 13:54	0.019	0.022	0.021
82	19-09-2011 13:55	0.026	0.034	0.021
83	19-09-2011 13:56	0.019	0.023	0.019
84	19-09-2011 13:57	0.021	0.030	0.021
85	19-09-2011 13:58	0.019	0.025	0.018
86	19-09-2011 13:59	0.019	0.032	0.019
87	19-09-2011 14:00	0.022	0.044	0.020
88	19-09-2011 14:01	0.059	0.178	0.136
89	19-09-2011 14:02	0.098	0.238	0.057
90	19-09-2011 14:03	0.072	0.228	0.023
91	19-09-2011 14:04	0.040	0.086	0.061
92	19-09-2011 14:05	0.188	1.063	0.029
93	19-09-2011 14:06	0.062	0.218	0.210
94	19-09-2011 14:07	0.081	0.289	0.089
95	19-09-2011 14:08	0.039	0.089	0.036
96	19-09-2011 14:09	0.038	0.079	0.079

==========Event #40 information (end)==========

File: C:\PROGRAM FILES\...\DataPGM-7320_592-902086_20110926_170039.dlg

UNIT 1. PID ppm 3000.

==========Event #57 information (begin)==========

[Event #57 name:]--[Event #57]16-09-2011 23:40<-->16-09-2011 23:57

[Event start time:]--16-09-2011 23:40:47[Event end time:]--16-09-2011 23:57:47

==========Event #57 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-902086

Data Points: 17 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACT FB USER ID: 01 Op Mode: Hygiene Mode

Sensor Information	: PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	: Isobutene		
Calibration Time	: 2011-09-08 08:50:00	2011-09-08 08:50:00	2011-09-08 08:50:00
Drift Value	: ---	---	---
Low Alarm Levels	: 50.000	50.000	50.000
High Alarm Levels	: 100.000	100.000	100.000
Span Value	: 100.000	100.000	100.000
Correction Factor	: 1.00	1.00	1.00
Over Alarm Levels	: 15000.000	15000.000	15000.000

==========Event #57 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	16-09-2011 23:41	0.000	0.005	0.000
2	16-09-2011 23:42	0.000	0.000	0.000
3	16-09-2011 23:43	0.000	0.000	0.000
4	16-09-2011 23:44	0.000	0.000	0.000
5	16-09-2011 23:45	0.007	0.049	0.062
6	16-09-2011 23:46	0.316	0.512	0.334
7	16-09-2011 23:47	0.359	0.460	0.192
8	16-09-2011 23:48	0.387	0.422	0.267
9	16-09-2011 23:49	0.042	0.267	0.000
10	16-09-2011 23:50	0.000	0.000	0.035
11	16-09-2011 23:51	0.140	0.255	0.307
12	16-09-2011 23:52	0.391	0.514	0.261

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

INIT 4 PID ppm 3000

==========Event #97 information (begin)==========

[Event #97 name:]--[Event #97]16-09-2011 08:38<-->16-09-2011 13:45

[Event start time:]--16-09-2011 08:38:29[Event end time:]--16-09-2011 13:45:29

==========Event #97 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number:. 592-903845

Data Points: 307 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	Isobutene		
Calibration Time	2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	---	---	---
Low Alarm Levels	21.738	21.738	21.738
High Alarm Levels	43.476	43.476	43.476
Span Value	100.000	100.000	100.000
Correction Factor	1.00	1.00	1.00
Over Alarm Levels	15000.000	15000.000	15000.000

==========Event #97 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	16-09-2011 08:39	0.000	0.005	0.000
2	16-09-2011 08:40	0.000	0.000	0.000
3	16-09-2011 08:41	0.000	0.000	0.000
4	16-09-2011 08:42	0.000	0.001	0.000
5	16-09-2011 08:43	0.000	0.000	0.000
6	16-09-2011 08:44	0.000	0.000	0.000
7	16-09-2011 08:45	0.000	0.000	0.000
8	16-09-2011 08:46	0.000	0.000	0.000
9	16-09-2011 08:47	0.000	0.000	0.000
10	16-09-2011 08:48	0.000	0.000	0.000
11	16-09-2011 08:49	0.000	0.000	0.000
12	16-09-2011 08:50	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #97 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
28	16-09-2011 09:06	0.017	0.192	0.000
29	16-09-2011 09:07	0.000	0.000	0.000
30	16-09-2011 09:08	0.000	0.000	0.000
31	16-09-2011 09:09	0.000	0.000	0.000
32	16-09-2011 09:10	0.000	0.000	0.000
33	16-09-2011 09:11	0.000	0.000	0.000
34	16-09-2011 09:12	0.000	0.000	0.000
35	16-09-2011 09:13	0.000	0.000	0.000
36	16-09-2011 09:14	0.000	0.000	0.000
37	16-09-2011 09:15	0.000	0.000	0.000
38	16-09-2011 09:16	0.000	0.000	0.000
39	16-09-2011 09:17	0.011	0.120	0.000
40	16-09-2011 09:18	0.000	0.000	0.000
41	16-09-2011 09:19	0.000	0.000	0.000
42	16-09-2011 09:20	0.000	0.000	0.000
43	16-09-2011 09:21	0.000	0.000	0.000
44	16-09-2011 09:22	0.000	0.000	0.000
45	16-09-2011 09:23	0.000	0.000	0.000
46	16-09-2011 09:24	0.000	0.000	0.000
47	16-09-2011 09:25	0.000	0.000	0.000
48	16-09-2011 09:26	0.000	0.000	0.000
49	16-09-2011 09:27	0.000	0.000	0.000
50	16-09-2011 09:28	0.000	0.000	0.000
51	16-09-2011 09:29	0.000	0.000	0.000
52	16-09-2011 09:30	0.000	0.000	0.000
53	16-09-2011 09:31	0.000	0.000	0.000
54	16-09-2011 09:32	0.001	0.021	0.000
55	16-09-2011 09:33	0.000	0.000	0.000
56	16-09-2011 09:34	0.000	0.000	0.000
57	16-09-2011 09:35	0.000	0.000	0.000
58	16-09-2011 09:36	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #97 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
74	16-09-2011 09:52	0.000	0.000	0.000
75	16-09-2011 09:53	0.000	0.000	0.000
76	16-09-2011 09:54	0.000	0.000	0.000
77	16-09-2011 09:55	0.000	0.000	0.000
78	16-09-2011 09:56	0.000	0.000	0.000
79	16-09-2011 09:57	0.000	0.000	0.000
80	16-09-2011 09:58	0.000	0.000	0.000
81	16-09-2011 09:59	0.000	0.000	0.000
82	16-09-2011 10:00	0.000	0.000	0.000
83	16-09-2011 10:01	0.000	0.000	0.000
84	16-09-2011 10:02	0.000	0.000	0.000
85	16-09-2011 10:03	0.000	0.000	0.000
86	16-09-2011 10:04	0.000	0.000	0.000
87	16-09-2011 10:05	0.000	0.000	0.000
88	16-09-2011 10:06	0.000	0.000	0.000
89	16-09-2011 10:07	0.000	0.000	0.000
90	16-09-2011 10:08	0.000	0.000	0.000
91	16-09-2011 10:09	0.000	0.000	0.000
92	16-09-2011 10:10	0.000	0.000	0.000
93	16-09-2011 10:11	0.000	0.000	0.000
94	16-09-2011 10:12	0.000	0.000	0.000
95	16-09-2011 10:13	0.000	0.000	0.000
96	16-09-2011 10:14	0.000	0.000	0.000
97	16-09-2011 10:15	0.000	0.000	0.000
98	16-09-2011 10:16	0.000	0.000	0.000
99	16-09-2011 10:17	0.000	0.000	0.000
100	16-09-2011 10:18	0.000	0.000	0.000
101	16-09-2011 10:19	0.000	0.000	0.000
102	16-09-2011 10:20	0.000	0.000	0.000
103	16-09-2011 10:21	0.000	0.000	0.000
104	16-09-2011 10:22	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #97 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
120	16-09-2011 10:38	0.000	0.000	0.000
121	16-09-2011 10:39	0.000	0.000	0.000
122	16-09-2011 10:40	0.000	0.000	0.000
123	16-09-2011 10:41	0.000	0.000	0.000
124	16-09-2011 10:42	0.000	0.000	0.000
125	16-09-2011 10:43	0.000	0.000	0.000
126	16-09-2011 10:44	0.000	0.000	0.000
127	16-09-2011 10:45	0.000	0.000	0.000
128	16-09-2011 10:46	0.000	0.000	0.000
129	16-09-2011 10:47	0.000	0.000	0.000
130	16-09-2011 10:48	0.000	0.000	0.000
131	16-09-2011 10:49	0.000	0.000	0.000
132	16-09-2011 10:50	0.000	0.000	0.000
133	16-09-2011 10:51	0.000	0.000	0.000
134	16-09-2011 10:52	0.000	0.000	0.000
135	16-09-2011 10:53	0.000	0.000	0.000
136	16-09-2011 10:54	0.000	0.000	0.000
137	16-09-2011 10:55	0.000	0.000	0.000
138	16-09-2011 10:56	0.000	0.000	0.000
139	16-09-2011 10:57	0.000	0.000	0.000
140	16-09-2011 10:58	0.000	0.000	0.000
141	16-09-2011 10:59	0.000	0.000	0.000
142	16-09-2011 11:00	0.000	0.000	0.000
143	16-09-2011 11:01	0.000	0.000	0.000
144	16-09-2011 11:02	0.000	0.000	0.000
145	16-09-2011 11:03	0.000	0.000	0.000
146	16-09-2011 11:04	0.000	0.000	0.000
147	16-09-2011 11:05	0.000	0.000	0.000
148	16-09-2011 11:06	0.000	0.000	0.000
149	16-09-2011 11:07	0.000	0.000	0.000
150	16-09-2011 11:08	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #97 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
166	16-09-2011 11:24	0.000	0.000	0.000
167	16-09-2011 11:25	0.000	0.000	0.000
168	16-09-2011 11:26	0.000	0.000	0.000
169	16-09-2011 11:27	0.000	0.000	0.000
170	16-09-2011 11:28	0.000	0.000	0.000
171	16-09-2011 11:29	0.000	0.000	0.000
172	16-09-2011 11:30	0.000	0.000	0.000
173	16-09-2011 11:31	0.000	0.000	0.000
174	16-09-2011 11:32	0.000	0.000	0.000
175	16-09-2011 11:33	0.000	0.000	0.000
176	16-09-2011 11:34	0.000	0.000	0.000
177	16-09-2011 11:35	0.000	0.000	0.000
178	16-09-2011 11:36	0.000	0.000	0.000
179	16-09-2011 11:37	0.000	0.000	0.000
180	16-09-2011 11:38	0.000	0.000	0.000
181	16-09-2011 11:39	0.000	0.000	0.000
182	16-09-2011 11:40	0.000	0.000	0.000
183	16-09-2011 11:41	0.000	0.000	0.000
184	16-09-2011 11:42	0.000	0.000	0.000
185	16-09-2011 11:43	0.000	0.000	0.000
186	16-09-2011 11:44	0.000	0.000	0.000
187	16-09-2011 11:45	0.000	0.000	0.000
188	16-09-2011 11:46	0.000	0.000	0.000
189	16-09-2011 11:47	0.000	0.000	0.000
190	16-09-2011 11:48	0.000	0.000	0.000
191	16-09-2011 11:49	0.000	0.000	0.000
192	16-09-2011 11:50	0.000	0.000	0.000
193	16-09-2011 11:51	0.000	0.000	0.000
194	16-09-2011 11:52	0.000	0.000	0.000
195	16-09-2011 11:53	0.000	0.000	0.000
196	16-09-2011 11:54	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #97 information==========

LINE#	Date/Time	PID-Avg (ppm)	PID-Max (ppm)	PID-RLT (ppm)
212	16-09-2011 12:10	0.000	0.000	0.000
213	16-09-2011 12:11	0.000	0.000	0.000
214	16-09-2011 12:12	0.000	0.000	0.000
215	16-09-2011 12:13	0.000	0.000	0.000
216	16-09-2011 12:14	0.000	0.000	0.000
217	16-09-2011 12:15	0.000	0.000	0.000
218	16-09-2011 12:16	0.000	0.000	0.000
219	16-09-2011 12:17	0.000	0.000	0.000
220	16-09-2011 12:18	0.000	0.000	0.000
221	16-09-2011 12:19	0.000	0.000	0.000
222	16-09-2011 12:20	0.000	0.000	0.000
223	16-09-2011 12:21	0.000	0.000	0.000
224	16-09-2011 12:22	0.000	0.000	0.000
225	16-09-2011 12:23	0.000	0.000	0.000
226	16-09-2011 12:24	0.000	0.000	0.000
227	16-09-2011 12:25	0.000	0.000	0.000
228	16-09-2011 12:26	0.000	0.000	0.000
229	16-09-2011 12:27	0.000	0.000	0.000
230	16-09-2011 12:28	0.000	0.000	0.000
231	16-09-2011 12:29	0.000	0.000	0.000
232	16-09-2011 12:30	0.000	0.000	0.000
233	16-09-2011 12:31	0.000	0.000	0.000
234	16-09-2011 12:32	0.000	0.000	0.000
235	16-09-2011 12:33	0.000	0.000	0.000
236	16-09-2011 12:34	0.000	0.000	0.000
237	16-09-2011 12:35	0.000	0.000	0.000
238	16-09-2011 12:36	0.000	0.000	0.000
239	16-09-2011 12:37	0.000	0.000	0.000
240	16-09-2011 12:38	0.000	0.000	0.000
241	16-09-2011 12:39	0.000	0.000	0.000
242	16-09-2011 12:40	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #97 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
258	16-09-2011 12:56	0.032	0.297	0.000
259	16-09-2011 12:57	0.032	0.067	0.067
260	16-09-2011 12:58	0.074	0.091	0.089
261	16-09-2011 12:59	0.104	0.124	0.125
262	16-09-2011 13:00	0.131	0.145	0.136
263	16-09-2011 13:01	0.110	0.149	0.000
264	16-09-2011 13:02	0.000	0.000	0.000
265	16-09-2011 13:03	0.032	0.080	0.080
266	16-09-2011 13:04	0.072	0.097	0.098
267	16-09-2011 13:05	0.103	0.113	0.103
268	16-09-2011 13:06	0.114	0.132	0.133
269	16-09-2011 13:07	0.135	0.144	0.141
270	16-09-2011 13:08	0.138	0.150	0.147
271	16-09-2011 13:09	0.147	0.161	0.149
272	16-09-2011 13:10	0.147	0.163	0.139
273	16-09-2011 13:11	0.056	0.143	0.000
274	16-09-2011 13:12	0.023	0.078	0.080
275	16-09-2011 13:13	0.098	0.112	0.111
276	16-09-2011 13:14	0.114	0.121	0.122
277	16-09-2011 13:15	0.124	0.140	0.141
278	16-09-2011 13:16	0.132	0.143	0.132
279	16-09-2011 13:17	0.138	0.153	0.143
280	16-09-2011 13:18	0.149	0.163	0.164
281	16-09-2011 13:19	0.161	0.177	0.151
282	16-09-2011 13:20	0.145	0.157	0.150
283	16-09-2011 13:21	0.149	0.160	0.155
284	16-09-2011 13:22	0.062	0.158	0.000
285	16-09-2011 13:23	0.000	0.000	0.000
286	16-09-2011 13:24	0.000	0.000	0.000
287	16-09-2011 13:25	0.000	0.000	0.000
288	16-09-2011 13:26	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

=========Event #98 information (begin)=========

[Event #98 name:]--[Event #98]16-09-2011 13:57<-->16-09-2011 14:10

[Event start time:]--16-09-2011 13:57:59[Event end time:]--16-09-2011 14:10:59

==========Event #98 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 13 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Avg(ppm)PID-Max(ppm)PID-RLT(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-04 14:50:002011-09-04 14:50:002011-09-04 14:50:00

Drift Value : --- --- ---

Low Alarm Levels : 21.738 21.738 21.738

High Alarm Levels : 43.476 43.476 43.476

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #98 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	16-09-2011 13:58	0.310	0.332	0.318
2	16-09-2011 13:59	0.291	0.327	0.267
3	16-09-2011 14:00	0.253	0.276	0.247
4	16-09-2011 14:01	0.048	0.256	0.000
5	16-09-2011 14:02	0.000	0.000	0.000
6	16-09-2011 14:03	0.000	0.000	0.000
7	16-09-2011 14:04	0.000	0.000	0.000
8	16-09-2011 14:05	0.000	0.000	0.000
9	16-09-2011 14:06	0.000	0.000	0.000
10	16-09-2011 14:07	0.106	0.681	0.590
11	16-09-2011 14:08	0.189	0.590	0.219
12	16-09-2011 14:09	0.273	0.315	0.319

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

=========Event #99 information (begin)=========

[Event #99 name:]--[Event #99]16-09-2011 17:53<-->16-09-2011 18:11

[Event start time:]--16-09-2011 17:53:36[Event end time:]--16-09-2011 18:11:36

==========Event #99 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 18 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	: PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	: Isobutene		
Calibration Time	: 2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	: ---	---	---
Low Alarm Levels	: 21.738	21.738	21.738
High Alarm Levels	: 43.476	43.476	43.476
Span Value	: 100.000	100.000	100.000
Correction Factor	: 1.00	1.00	1.00
Over Alarm Levels	: 15000.000	15000.000	15000.000

==========Event #99 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	16-09-2011 17:54	0.000	0.000	0.000
2	16-09-2011 17:55	0.000	0.000	0.000
3	16-09-2011 17:56	0.000	0.000	0.000
4	16-09-2011 17:57	0.087	0.141	0.110
5	16-09-2011 17:58	0.130	0.174	0.098
6	16-09-2011 17:59	0.097	0.127	0.074
7	16-09-2011 18:00	0.079	0.109	0.074
8	16-09-2011 18:01	0.066	0.095	0.076
9	16-09-2011 18:02	0.006	0.085	0.000
10	16-09-2011 18:03	0.000	0.033	0.160
11	16-09-2011 18:04	0.041	0.254	0.000
12	16-09-2011 18:05	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

=========Event #100 information (begin)=========

[Event #100 name:]--[Event #100]16-09-2011 20:33<-->16-09-2011 20:52

[Event start time:]--16-09-2011 20:33:19[Event end time:]--16-09-2011 20:52:19

==========Event #100 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 19 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Avg(ppm) PID-Max(ppm) PID-RLT(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-04 14:50:002011-09-04 14:50:002011-09-04 14:50:00

Drift Value : --- --- ---

Low Alarm Levels : 21.738 21.738 21.738

High Alarm Levels : 43.476 43.476 43.476

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #100 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	16-09-2011 20:34	0.009	0.021	0.016
2	16-09-2011 20:35	0.031	0.051	0.035
3	16-09-2011 20:36	0.027	0.035	0.032
4	16-09-2011 20:37	0.053	0.106	0.042
5	16-09-2011 20:38	0.046	0.050	0.047
6	16-09-2011 20:39	0.050	0.055	0.052
7	16-09-2011 20:40	0.055	0.060	0.057
8	16-09-2011 20:41	0.147	0.355	0.368
9	16-09-2011 20:42	0.554	0.676	0.643
10	16-09-2011 20:43	0.569	0.643	0.305
11	16-09-2011 20:44	0.119	0.305	0.092
12	16-09-2011 20:45	0.095	0.106	0.109

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #101 information (begin)==========

[Event #101 name:]--[Event #101]17-09-2011 01:45<-->17-09-2011 02:09

[Event start time:]--17-09-2011 01:45:47[Event end time:]--17-09-2011 02:09:47

==========Event #101 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 24 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	: PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	: Isobutene		
Calibration Time	: 2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	: ---	---	---
Low Alarm Levels	: 21.738	21.738	21.738
High Alarm Levels	: 43.476	43.476	43.476
Span Value	: 100.000	100.000	100.000
Correction Factor	: 1.00	1.00	1.00
Over Alarm Levels	: 15000.000	15000.000	15000.000

==========Event #101 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	17-09-2011 01:46	0.000	0.008	0.000
2	17-09-2011 01:47	0.000	0.000	0.000
3	17-09-2011 01:48	0.004	0.042	0.034
4	17-09-2011 01:49	0.038	0.297	0.101
5	17-09-2011 01:50	0.081	0.337	0.206
6	17-09-2011 01:51	0.146	0.206	0.181
7	17-09-2011 01:52	0.246	0.308	0.305
8	17-09-2011 01:53	0.160	0.305	0.046
9	17-09-2011 01:54	0.053	0.064	0.056
10	17-09-2011 01:55	0.122	0.229	0.225
11	17-09-2011 01:56	0.261	0.286	0.295
12	17-09-2011 01:57	0.267	0.308	0.261

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #102 information (begin)==========

[Event #102 name:]--[Event #102]17-09-2011 06:54<-->17-09-2011 07:06

[Event start time:]--17-09-2011 06:54:14[Event end time:]--17-09-2011 07:06:14

==========Event #102 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 12 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	Isobutene		
Calibration Time	2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	---	---	---
Low Alarm Levels	21.738	21.738	21.738
High Alarm Levels	43.476	43.476	43.476
Span Value	100.000	100.000	100.000
Correction Factor	1.00	1.00	1.00
Over Alarm Levels	15000.000	15000.000	15000.000

==========Event #102 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	17-09-2011 06:55	0.009	0.052	0.016
2	17-09-2011 06:56	0.035	0.064	0.042
3	17-09-2011 06:57	0.034	0.072	0.002
4	17-09-2011 06:58	0.004	0.025	0.001
5	17-09-2011 06:59	0.016	0.043	0.018
6	17-09-2011 07:00	0.010	0.018	0.008
7	17-09-2011 07:01	0.009	0.016	0.012
8	17-09-2011 07:02	0.012	0.018	0.011
9	17-09-2011 07:03	0.016	0.027	0.018
10	17-09-2011 07:04	0.061	0.107	0.101
11	17-09-2011 07:05	0.099	0.126	0.091
12	17-09-2011 07:06	0.106	0.128	0.118

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #103 information (begin)==========

[Event #103 name:]--[Event #103]18-09-2011 13:42<-->18-09-2011 14:47

[Event start time:]--18-09-2011 13:42:52[Event end time:]--18-09-2011 14:47:52

==========Event #103 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 65 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	Isobutene		
Calibration Time	2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	---	---	---
Low Alarm Levels	21.738	21.738	21.738
High Alarm Levels	43.476	43.476	43.476
Span Value	100.000	100.000	100.000
Correction Factor	1.00	1.00	1.00
Over Alarm Levels	15000.000	15000.000	15000.000

==========Event #103 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	18-09-2011 13:43	0.039	0.050	0.041
2	18-09-2011 13:44	0.022	0.047	0.013
3	18-09-2011 13:45	0.005	0.014	0.000
4	18-09-2011 13:46	0.001	0.005	0.000
5	18-09-2011 13:47	0.014	0.093	0.011
6	18-09-2011 13:48	0.004	0.012	0.000
7	18-09-2011 13:49	0.001	0.009	0.000
8	18-09-2011 13:50	0.020	0.065	0.025
9	18-09-2011 13:51	0.027	0.035	0.030
10	18-09-2011 13:52	0.023	0.047	0.007
11	18-09-2011 13:53	0.014	0.050	0.006
12	18-09-2011 13:54	0.001	0.006	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #103 information==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
28	18-09-2011 14:10	0.000	0.000	0.000
29	18-09-2011 14:11	0.000	0.000	0.000
30	18-09-2011 14:12	0.000	0.000	0.000
31	18-09-2011 14:13	0.000	0.000	0.000
32	18-09-2011 14:14	0.002	0.012	0.000
33	18-09-2011 14:15	0.015	0.038	0.000
34	18-09-2011 14:16	0.002	0.009	0.000
35	18-09-2011 14:17	0.011	0.032	0.010
36	18-09-2011 14:18	0.014	0.021	0.015
37	18-09-2011 14:19	0.024	0.032	0.026
38	18-09-2011 14:20	0.033	0.076	0.000
39	18-09-2011 14:21	0.000	0.004	0.000
40	18-09-2011 14:22	0.000	0.005	0.000
41	18-09-2011 14:23	0.000	0.000	0.000
42	18-09-2011 14:24	0.000	0.000	0.000
43	18-09-2011 14:25	0.001	0.015	0.001
44	18-09-2011 14:26	0.006	0.013	0.008
45	18-09-2011 14:27	0.026	0.040	0.031
46	18-09-2011 14:28	0.032	0.042	0.014
47	18-09-2011 14:29	0.038	0.085	0.055
48	18-09-2011 14:30	0.058	0.078	0.064
49	18-09-2011 14:31	0.055	0.073	0.020
50	18-09-2011 14:32	0.021	0.031	0.008
51	18-09-2011 14:33	0.015	0.029	0.000
52	18-09-2011 14:34	0.000	0.012	0.003
53	18-09-2011 14:35	0.009	0.030	0.000
54	18-09-2011 14:36	0.000	0.007	0.000
55	18-09-2011 14:37	0.000	0.000	0.000
56	18-09-2011 14:38	0.000	0.000	0.000
57	18-09-2011 14:39	0.000	0.000	0.000
58	18-09-2011 14:40	0.000	0.000	0.000

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

=========Event #104 information (begin)=========

[Event #104 name:]--[Event #104]19-09-2011 12:16<-->19-09-2011 13:01

[Event start time:]--19-09-2011 12:16:18[Event end time:]--19-09-2011 13:01:18

==========Event #104 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 45 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	: PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	: Isobutene		
Calibration Time	: 2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	: ---	---	---
Low Alarm Levels	: 21.738	21.738	21.738
High Alarm Levels	: 43.476	43.476	43.476
Span Value	: 100.000	100.000	100.000
Correction Factor	: 1.00	1.00	1.00
Over Alarm Levels	: 15000.000	15000.000	15000.000

==========Event #104 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	19-09-2011 12:17	0.009	0.024	0.001
2	19-09-2011 12:18	0.001	0.005	0.000
3	19-09-2011 12:19	0.006	0.057	0.000
4	19-09-2011 12:20	0.000	0.002	0.002
5	19-09-2011 12:21	0.006	0.016	0.004
6	19-09-2011 12:22	0.018	0.025	0.012
7	19-09-2011 12:23	0.013	0.018	0.012
8	19-09-2011 12:24	0.012	0.017	0.019
9	19-09-2011 12:25	0.017	0.024	0.015
10	19-09-2011 12:26	0.146	0.477	0.234
11	19-09-2011 12:27	0.028	0.234	0.021
12	19-09-2011 12:28	0.198	1.965	0.166

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

==========Event #105 information (begin)==========

[Event #105 name:]--[Event #105]20-09-2011 13:32<-->20-09-2011 13:41

[Event start time:]--20-09-2011 13:32:42[Event end time:]--20-09-2011 13:41:42

==========Event #105 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 9 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	Isobutene		
Calibration Time	2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	---	---	---
Low Alarm Levels	21.738	21.738	21.738
High Alarm Levels	43.476	43.476	43.476
Span Value	100.000	100.000	100.000
Correction Factor	1.00	1.00	1.00
Over Alarm Levels	15000.000	15000.000	15000.000

==========Event #105 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	20-09-2011 13:33	0.108	0.139	0.103
2	20-09-2011 13:34	0.115	0.133	0.132
3	20-09-2011 13:35	0.142	0.155	0.146
4	20-09-2011 13:36	0.130	0.152	0.104
5	20-09-2011 13:37	0.108	0.115	0.110
6	20-09-2011 13:38	0.113	0.119	0.088
7	20-09-2011 13:39	0.058	0.088	0.075
8	20-09-2011 13:40	0.057	0.086	0.039
9	20-09-2011 13:41	0.061	0.102	0.077

==========Event #105 information (end)==========

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

=========Event #106 information (begin)=========

[Event #106 name:]--[Event #106]21-09-2011 12:49<-->21-09-2011 13:10

[Event start time:]--21-09-2011 12:49:01[Event end time:]--21-09-2011 13:10:01

==========Event #106 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 21 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	: PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	: Isobutene		
Calibration Time	: 2011-09-04 14:50:002011-09-04 14:50:002011-09-04 14:50:00		
Drift Value	: ---	---	---
Low Alarm Levels	: 21.738	21.738	21.738
High Alarm Levels	: 43.476	43.476	43.476
Span Value	: 100.000	100.000	100.000
Correction Factor	: 1.00	1.00	1.00
Over Alarm Levels	: 15000.000	15000.000	15000.000

==========Event #106 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	21-09-2011 12:50	4.513	60.944	0.096
2	21-09-2011 12:51	18.018	101.127	0.129
3	21-09-2011 12:52	0.118	0.129	0.120
4	21-09-2011 12:53	0.122	0.137	0.124
5	21-09-2011 12:54	0.130	0.143	0.140
6	21-09-2011 12:55	0.140	0.155	0.135
7	21-09-2011 12:56	0.137	0.152	0.139
8	21-09-2011 12:57	0.136	0.143	0.132
9	21-09-2011 12:58	0.139	0.164	0.140
10	21-09-2011 12:59	0.150	0.167	0.157
11	21-09-2011 13:00	0.162	0.180	0.165
12	21-09-2011 13:01	0.143	0.179	0.108

File: C:\PROGRAM FILES\...\DataPGM-7320_592-903845_20110926_151852.dlg

=========Event #107 information (begin)=========

[Event #107 name:]--[Event #107]22-09-2011 08:38<-->22-09-2011 08:46

[Event start time:]--22-09-2011 08:38:28[Event end time:]--22-09-2011 08:46:28

==========Event #107 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-903845

Data Points: 8 Sample Period: 60 s Datalog Mode: Automatic

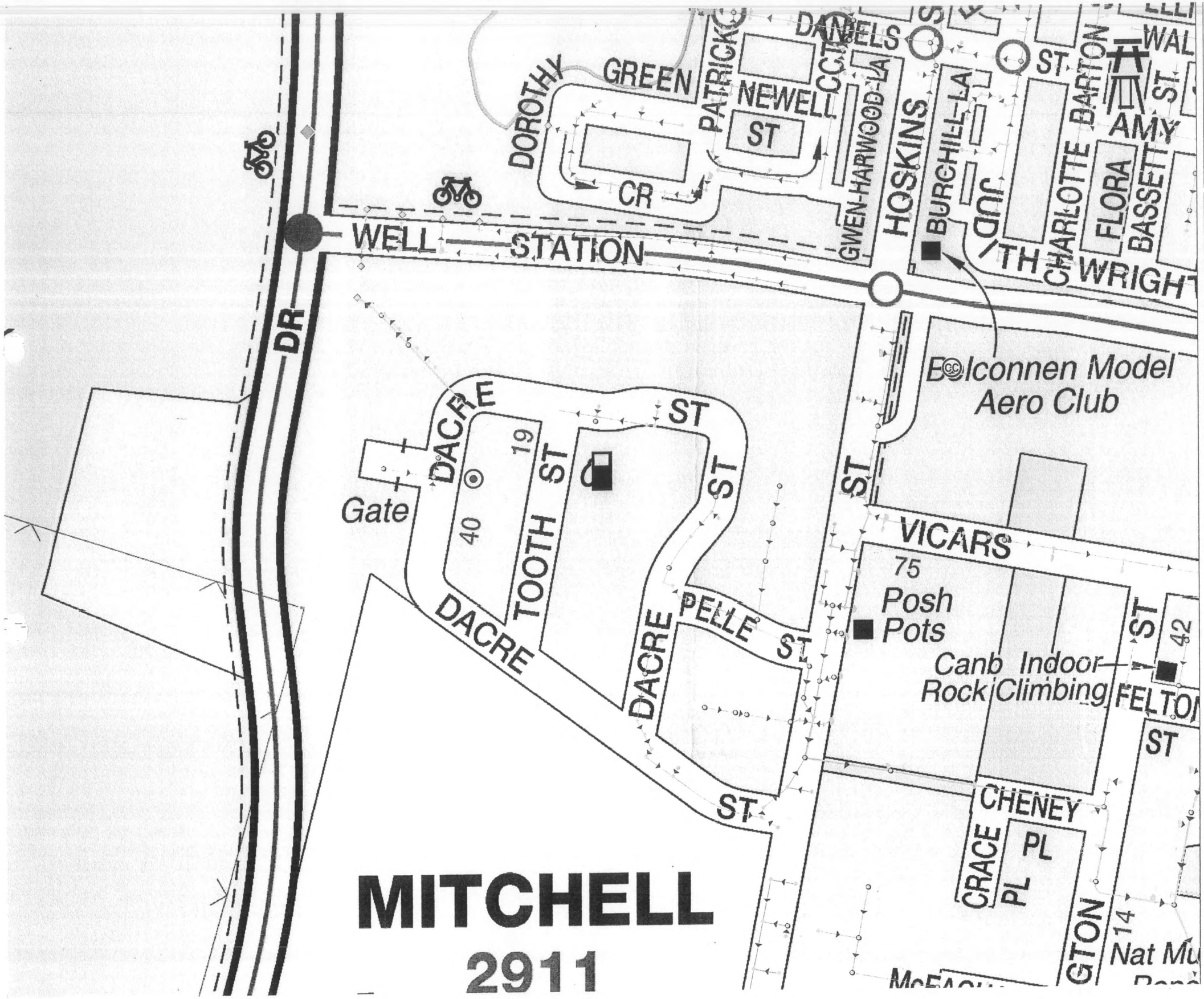
SITE ID: ACTF0003 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
Measurement Gas	Isobutene		
Calibration Time	2011-09-04 14:50:00	2011-09-04 14:50:00	2011-09-04 14:50:00
Drift Value	---	---	---
Low Alarm Levels	21.738	21.738	21.738
High Alarm Levels	43.476	43.476	43.476
Span Value	100.000	100.000	100.000
Correction Factor	1.00	1.00	1.00
Over Alarm Levels	15000.000	15000.000	15000.000

==========Event #107 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Max(ppm)	PID-RLT(ppm)
1	22-09-2011 08:39	22.977	97.767	0.658
2	22-09-2011 08:40	0.215	0.658	0.174
3	22-09-2011 08:41	0.179	0.189	0.182
4	22-09-2011 08:42	0.184	0.189	0.183
5	22-09-2011 08:43	0.189	0.196	0.186
6	22-09-2011 08:44	0.152	0.190	0.172
7	22-09-2011 08:45	0.147	0.324	0.168
8	22-09-2011 08:46	0.179	0.259	0.223

==========Event #107 information (end)==========



EMERGENCY INCIDENT

TITLE

Road Closure
Overview
1908hrs

DATE

9/16/2011

NOTES
type notes here

- Testing @ 0200
- Testing @ 0530
- Testing @ 1250
- Road Closures at 1834hrs

m 50 100 150 200

PROGRAM VERSION

HAZMAT II1.1 28JAN2011

EMERGENCY INCIDENT

TITLE

Road Closure
Overview
1908hrs

DATE

9/16/2011

NOTES
type notes here

- Testing @ 0200
- Testing @ 0530
- Testing @ 1250
- Road Closures at 1834hrs
- EPAbTesting

m 50 100 150 200

PROGRAM VERSION

HAZMAT II1.1 28JAN2011

Data supplied by various stakeholders under ANZLIC* Guidelines

The information contained herein has been provided in good faith. Effort has been made to ensure its accuracy and completeness. The Stakeholders take no responsibility for errors or omission nor any loss or damage that may result from the use of this information.
*Australia New Zealand Land Information Council.

EMERGENCY INCIDENT

175

TITLE

Atmospheric Monitoring
as at 1250Hrs

DATE

16/9/2011 1413Hrs

NOTES

Stop sign = road closed point duty
red area = evacuation area
CC = command post

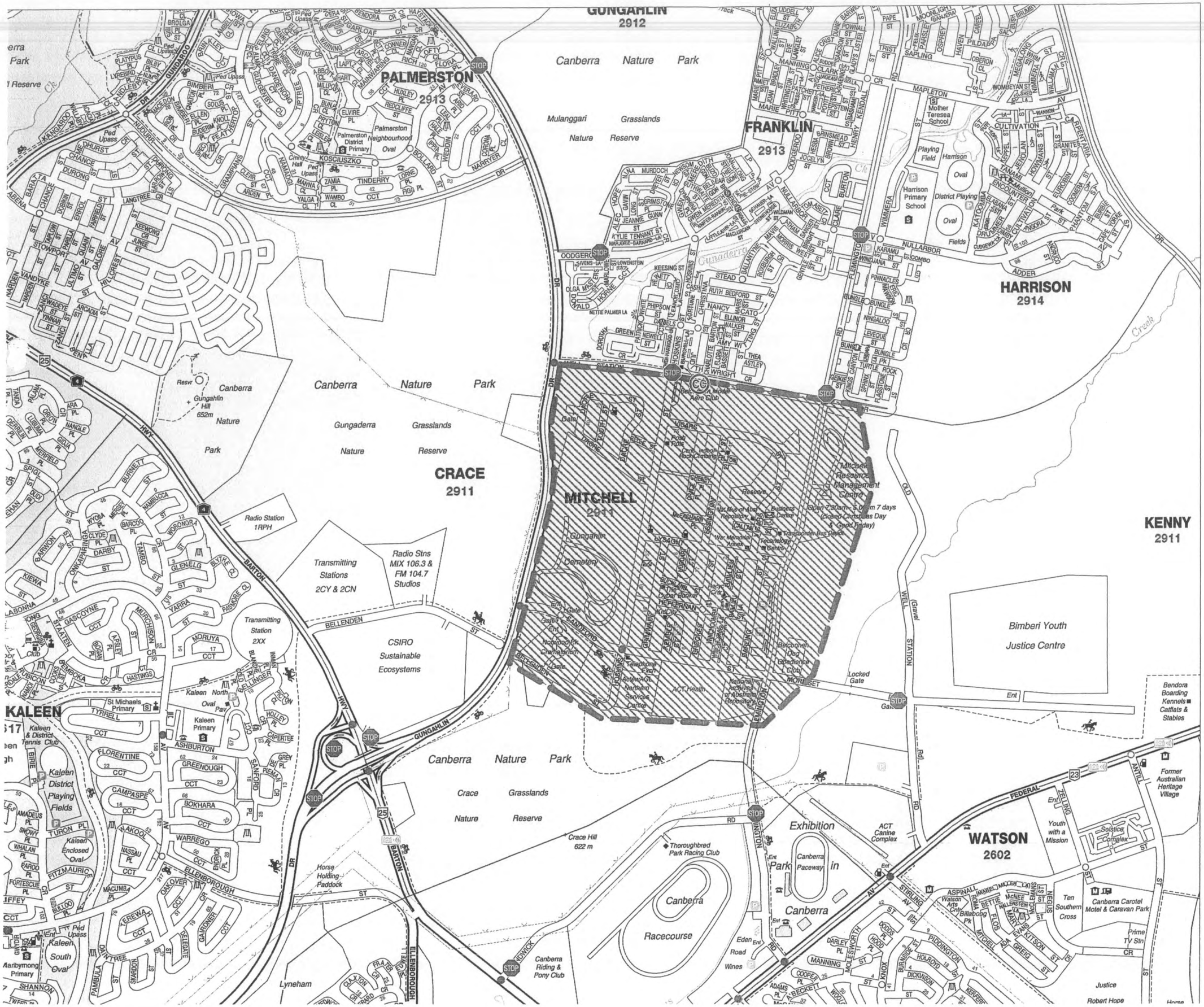
Prevoius Tesing at 0200
0530 all negative

◆ 0.0 Readings at 1250hrs

m 50 100 150 200

PROGRAM VERSION

HAZMAT II1.1 28JAN2011



EMERGENCY INCIDENT

174

TITLE
Evacuation Map as at 0900Hrs

DATE
16/9/2011 0900Hrs

NOTES
Stop sign = road closed point duty
red area = evacuation area
CC = command post

m 50 100 150 200

PROGRAM VERSION
HAZMAT II1.1 28JAN2011

Data supplied by various stakeholders under ANZLIC* Guidelines

*Australia New Zealand Land Information Council.

EMERGENCY INCIDENT

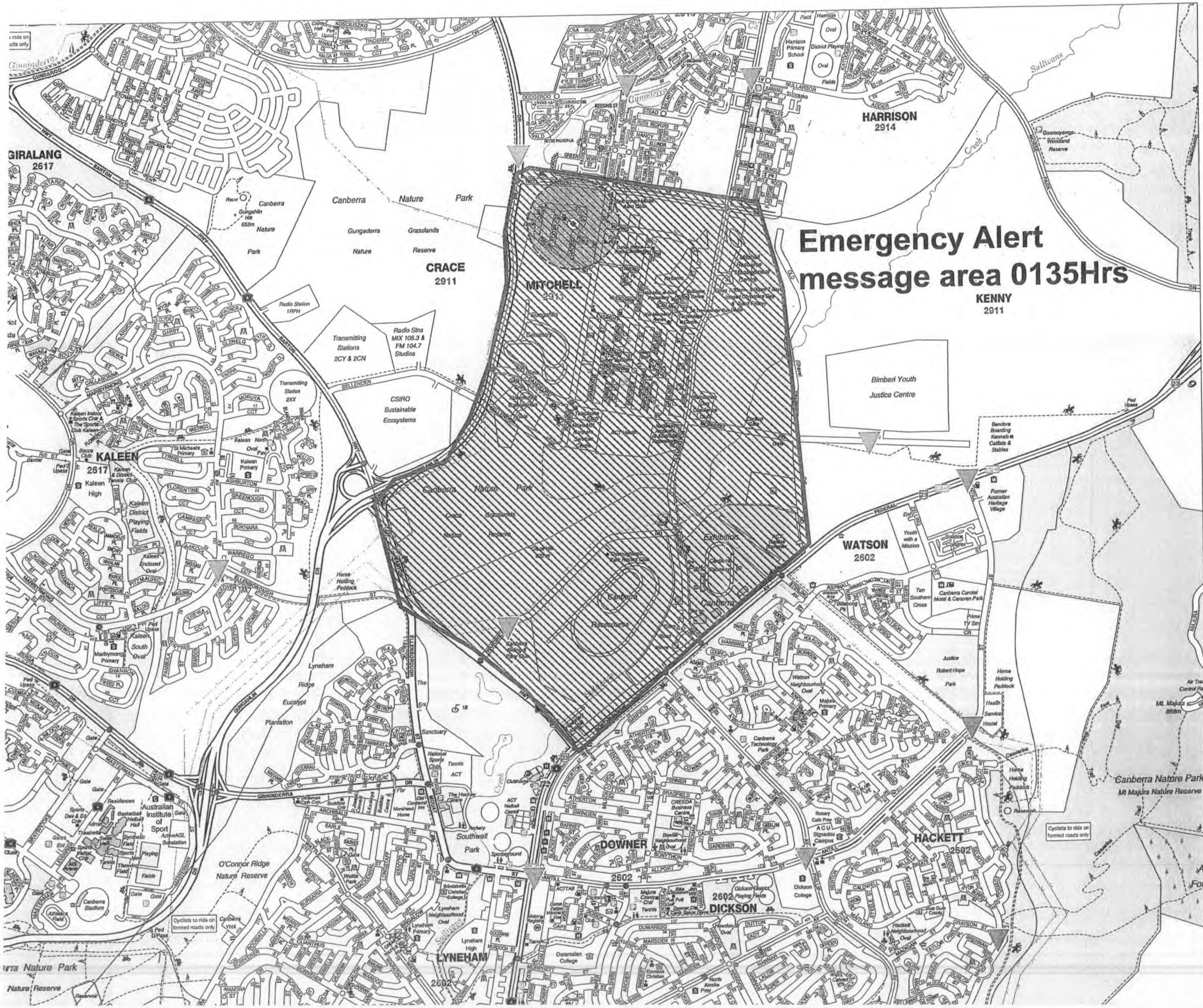
TITLE
Evacuation Map as at 0900Hrs

DATE
16/9/2011 0900Hrs

NOTES
Stop sign = road closed point duty
red area = evacuation area
CC = command post

m 50 100 150 200

PROGRAM VERSION
HAZMAT II1.1 28JAN2011



EMERGENCY INCIDENT 171

TITLE
HazMat Incident
Air test sites

DATE
9/16/2011 0415

NOTES
Green points are test sites
Red area = evac area
Inner red = 300m buffer of fire

0200 – 0
0530 – 0
1250 – 0
EPA + ACTFB (ffground)

Atmospheric Monitoring 12.50pm

m 50 100 150 200

Neg

PROGRAM VERSION
HAZMAT II1.1 28JAN2011

Data supplied by various stakeholders under ANZLIC* Guidelines

The information contained herein has been provided in good faith. Effort has been made to ensure its accuracy and completeness. The Stakeholders take no responsibility for errors or omission nor any loss or damage that may result from the use of this information.
*Australia New Zealand Land Information Council.

EPA Sampling Sites

Map Identification

Map Number	EPA
Date Prepared	18/09/2011 09:50
Drawn By	LS
Projection	MGA Zone 55 (GDA 94)
Center Coords	694 808, 6 100 991 m
Scale	1 : 8000 @ A3

m 100 200 300 400

N

Disclaimer

Data supplied by various stakeholders under Australia New Zealand Land Information Council (ANZLIC) Guidelines.
The information contained herein has been provided in good faith. Effort has been made to ensure its accuracy and completeness. The Stakeholders take no responsibility for errors or omission nor any loss or damage that may result from the use of this information.

ESAWIZ 1.10 30APR11
ACT Emergency Services Agency
Spatial Services Unit

C:\Temp\EPA.WOR

172

EMERGENCY INCIDENT

TITLE

Atmospheric Monitoring Overview

DATE

9/16/2011 1622

NOTES
type notes here

- Testing @ 0200
- Testing @ 0530
- Testing @ 1250

VOC = neg
PCbs (@ storage 147ppm)
NSW tested phosgene = neg
Alkaline acid
litmis test = Neutral (7)
CO level = 0

m 50 100 150 200

PROGRAM VERSION

HAZMAT II1.1 28JAN2011

EPA Sampling Sites

Map Identification

Map Number	EPA
Date Prepared	18/09/2011 09:50
Drawn By	LS
Projection	MGA Zone 55 (GDA 94)
Center Coords	694 808, 6 100 991 m
Scale	1 : 8000 @ A3

m 100 200 300 400

N

Disclaimer

Data supplied by various stakeholders under Australia New Zealand Land Information Council (ANZLIC) Guidelines.
The information contained herein has been provided in good faith. Effort has been made to ensure its accuracy and completeness. The Stakeholders take no responsibility for errors or omission nor any loss or damage that may result from the use of this information.

ESAWIZ 1.10 30APR11
ACT Emergency Services Agency
Spatial Services Unit