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## **5.10.2 Populations**

### **5.10.2.1 Onsite**

Population data are required to calculate the societal risk.

Onsite population data is provided in *Section 2.22.2*. During normal workdays, there are approximately 150 personnel onsite. In addition to Solvay personnel, there may be up to 50 contractors working on the Oldbury site, predominantly on days, although a typical average will be around 20 at any one time.

### **5.10.2.2 Offsite**

The offsite population data provided has been extracted from the HSE National Population Database. Population numbers are given for different sectors surrounding the Oldbury facility. The area covered by each sector is given in *Figure 5.6*.

The population numbers for each sector are given in *Table 5.12* to *Table 5.15*.

The Rose Lodge Hospital is situated in sector 4 and has a population number of 18.




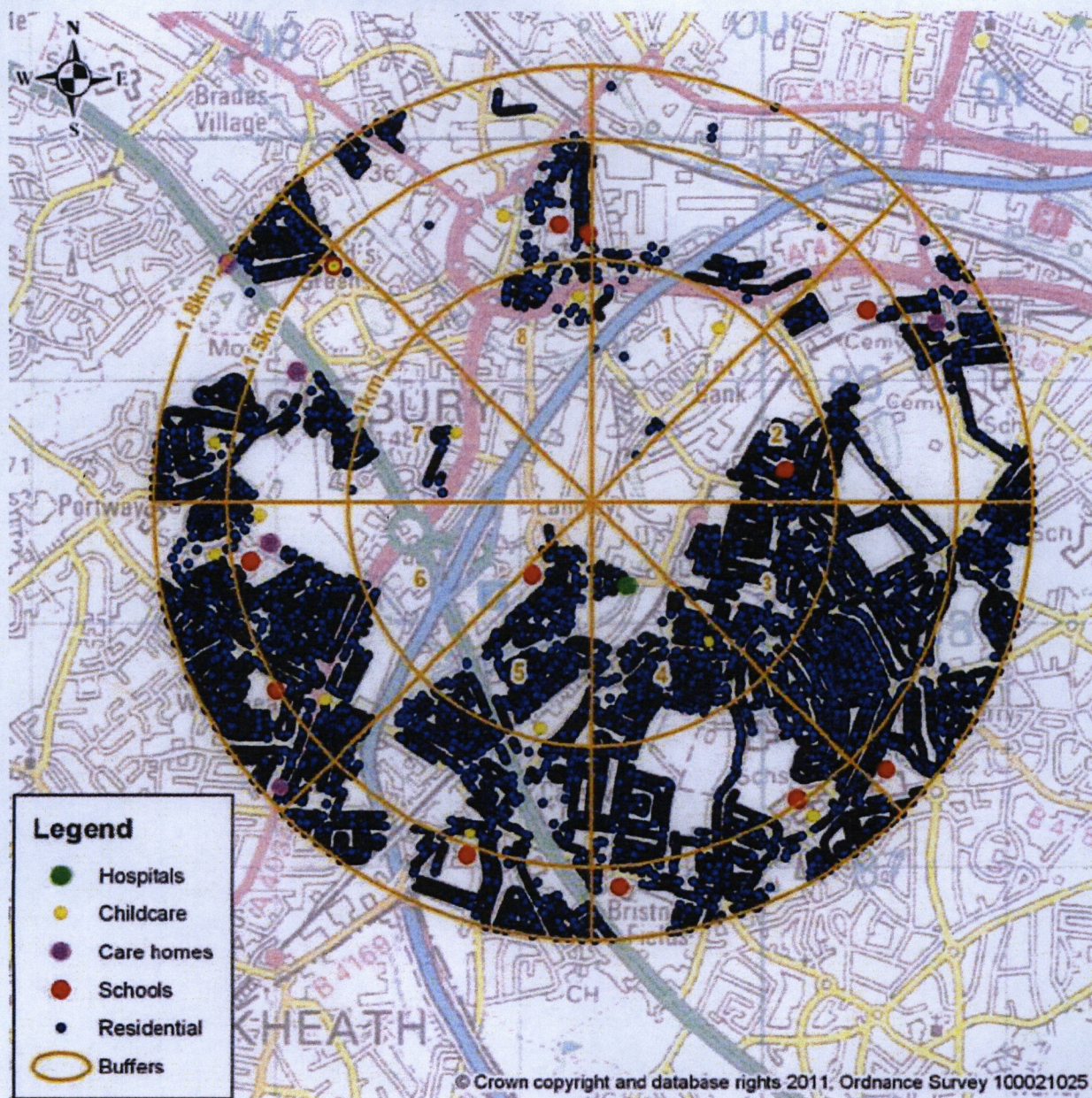

	RISK ASSESSMENT	November 2016
	Solvay Oldbury COMAH Safety Report	Page 5-19

Figure 5.6 Location of Offsite Populations





 SOLVAY	RISK ASSESSMENT	November 2016
	Solvay Oldbury COMAH Safety Report	Page 5-20

**Table 5.12 Residential Population Data**

Sector	Up to 1 km Night	DPTT	DNTT	Up to 1.5 km Night	DPTT	DNTT	Up to 1.8 km Night	DPTT	DNTT
1	116	53	72	624	276	412	634	281	418
2	1360	600	863	2224	1003	1415	3726	1760	2417
3	2324	1057	1409	5291	2404	3211	7320	3328	4491
4	2237	966	1274	4161	1776	2424	5977	2590	3494
5	2002	817	1133	4109	1674	2344	5883	2442	3393
6	56	27	34	2736	1224	1611	5462	2427	3150
7	205	94	120	917	382	515	2940	1227	1708
8	521	282	316	1339	657	817	1833	894	1115
<b>TOTAL</b>	<b>8821</b>	<b>3896</b>	<b>5221</b>	<b>21402</b>	<b>9397</b>	<b>12749</b>	<b>33775</b>	<b>14950</b>	<b>20185</b>

**Notes**


- [1] Night – maximum residential population (usual residential population). This can be used as night time, worst case scenario population estimate.  
[2] Day term-time (DPTT) – daytime term-time population (total weekday term-time population of address-points, i.e. all children of school age are at school, and all workers are at work).  
[3] Day non term (DNTT) – daytime non term-time population (total daytime non term-time population of address-points, i.e. school children are at home).  
[4] The population numbers given are cumulative, e.g. the numbers for up to 1.5 km include the numbers for up to 1 km.

**Table 5.13 School Population Data**

Sector	Up to 1 km School	Pop.	Up to 1.5 km School	Pop.	Up to 1.8 km School	Pop.
2	Rood End Primary School	305	George Betts Primary School Rood End Primary School	314 305	George Betts Primary School Bristnall Hall Technology College Rood End Primary School	314 940 305
4			Moat Farm Junior School Moat Farm Infant School	440 266	Oldbury College of Sport Moat Farm Junior School Moat Farm Infant School	1686 440 266
5	Langley Primary School	338	Langley Primary School	338	Causeway Green Primary School Langley Primary School	393 338
6			St James CoFE Primary School	370	Whiteheath Pupil Referral Unit St James CoFE Primary School	3 370
7			Rounds Green Primary School	276	Rounds Green Primary School	276
8			Christ Church CoFE (VA) Primary School St Francis Xavier Catholic School	197 216	Christ Church CoFE (VA) Primary School St Francis Xavier Catholic School	197 216
<b>TOTAL 643</b>			<b>TOTAL 2722</b>		<b>TOTAL 5744</b>	

**Notes** The number of schools (primary and secondary) and the number of pupils within each sector has been provided for the specified area.



 <b>SOLVAY</b>	<b>RISK ASSESSMENT</b>	November 2016
	Solvay Oldbury COMAH Safety Report	Page 5-21

**Table 5.14 Care Home Population Data**

Sector	Up to 1 km Care home	Pop.	Up to 1.5 km Care home	Pop.	Up to 1.8 km Care home	Pop.
2					Karam Court Care Home	44
6			Birchfield Resource Centre	39	George Leonard Rest Home	23
					Birchfield Resource Centre	39
7			Newbury Manor Nursing Home	47	The Gables Nursing Home	51
					Newbury Manor Nursing Home	47
		<b>TOTAL 0</b>			<b>TOTAL 86</b>	<b>TOTAL 204</b>


Notes The number of care homes and the number of beds within each sector has been provided for the specified area.

**Table 5.15 Day Care Centre Population Data**

Sector	Up to 1 km Day care centre	Pop.	Up to 1.5 km Day care centre	Pop.	Up to 1.8 km Day care centre	Pop.
1	Sandwell Training & Development Centre Day Nursery	49	Little Learners Day Nursery	52	Little Learners Day Nursery	52
			Sandwell Training & Development Centre Day Nursery	49	Sandwell Training & Development Centre Day Nursery	49
4	Bloxcliffe House Day Nursery	61	Bloxcliffe House Day Nursery	61	Lavender Farm	106
					Bloxcliffe House Day Nursery	61
5	The Apple Tree Holiday Club	30	Causeway Green Out of Hours Club	24	Causeway Green Out of Hours Club	24
			The Apple Tree Holiday Club	30	The Apple Tree Holiday Club	30
6			Lion Farm Play centre	32	Lion Cubs Den Playgroup	39
			The Oyster Club, Oldbury	40	Lion Farm Play centre	32
					The Oyster Club, Oldbury	40
7	Cheeky as Chimps Ltd	50	Rounds Green Play scheme Out of School Club	30	Wallace Close Play centre	16
			Cheeky as Chimps Ltd	50	Rounds Green Play scheme Out of School Club	30
					Cheeky as Chimps Ltd	50
8	Stepping Stones Playgroup	44	Workplace Nursery	50	Workplace Nursery	50
			Stepping Stones Playgroup	44	Stepping Stones Playgroup	44
		<b>TOTAL 234</b>			<b>TOTAL 462</b>	<b>TOTAL 623</b>

Notes The number of childcare organisations and the number of children within each sector has been provided for the specified area.



	<b>EMERGENCY RESPONSE</b>	November 2016
	Solvay Oldbury COMAH Safety Report	Page 13-75

## 13 EMERGENCY RESPONSE

### 13.1 Introduction

The Oldbury Site Emergency Procedure details procedures set up to deal with all site emergencies.

The following have been consulted in the preparation of the onsite emergency plan: Solvay employees, HSE, EA, health authority, local authority and emergency services.

There are no downstream drinking water abstractors within 1km of the site.

There are no mutual aid arrangements.

The types of incident possible are:

- "Casualty" caused by the sudden illness or injury of one or more persons other than in the events listed below
- "Spillage" caused by release of hazardous material.
- "Fire" either fire or explosion with or without casualties;
- "Toxic Gas" caused by a release of toxic gas which may require some degree of evacuation.


Specific sections of the emergency procedure include:

- Section 1 gives details of the General Site Emergency Procedure. This section describes general procedures brought into action when a site emergency incident occurs including measures such as:
  - raising alarms
  - roles of key personnel in emergency incidents
  - communications
  - external emergency services
  - site facilities

Depending on the nature of the emergency, some or all of the steps in the procedure will be invoked.

- Section 2 details the Toxic Gas Emergency Procedure. This procedure is designed for specific incidents involving a release of toxic gas e.g. a phosphine emission from the phosphine plant.
- Section 3 gives details for dealing with other specific emergencies including:
  - Phosphine Plant Fire Protection
  - Terrorist Contingency Plan
  - Bomb Threat
  - Microbiological Hazard
  - Loss of Containment Event
  - Oxygen Release



	EMERGENCY RESPONSE	November 2016
	Solvay Oldbury COMAH Safety Report	Page 13-76

- Section 4 describes the offsite emergency procedure. The objectives of this emergency procedure are to make maximum use of the combined resources of the Site and the outside services to:
  - effect the safe evacuation of personnel directly involved with the emergency.
  - effect the rescue and treatment of casualties.
  - safeguard other people both inside and outside the Site.
  - initially contain and then bring the incident under control.
  - provide for the needs of relatives of any casualties.
  - make available information for the news media.
  - secure the safe rehabilitation of affected areas.
  - preserve relevant records and equipment for identifying the cause and circumstances of the incident.

In addition, specific fire fighting procedures have been developed for different materials, as follows:

- phosphine;
- yellow phosphorus;
- highly water-reactive materials (e.g. phosphorus oxychloride and phosphorus trichloride);
- flammable liquids;
- oxygen;
- high tension electrical equipment; and
- heat transfer fluid systems.