

**BEVERLEY URANIUM MINE  
SPILL INCIDENT SUMMARY AS REPORTED BY HEATHGATE RESOURCES**

<b>Date of Spill/s</b>	<b>Date Reported</b>	<b>Spill Notification Criteria*</b>	<b>Quantity</b>	<b>Description</b>	<b>Comments</b>
12.3.1998	28.8.1998	2	500L	Spill of extraction fluid (b) from split return line.	Incident reported at first formal Quarterly ISL Meeting
	21.5.1999	4	Trace	Moisture detected under storage pond	Not a spill incident. Atmospheric condensation build-up only. Reported at Quarterly ISL Meeting for information.
4.5.2000	26.5.2000	1	6000L	Spill of aquifer groundwater during bore well construction.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
9.2.2001	9.3.2001	1	1200L	Spill of groundwater due to joint failure at pipe in well-house.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
	1.6.2001	2	600L - 800L	Spill of extraction fluid from injection well due to joint leak.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Apr-Jun 01	31.8.2001	2	50L - 2000L	Injection fluid <sup>(a)</sup> spills due to butt joints & vent valve leaks. 11 minor spills in total.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
22.6.2001	22.6.2001	3	1500L - 2500L	Injection fluid spill due to blown gasket on inlet flange.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
6.7.2001	6.7.2001	3	5700L	Injection fluid spill as well-head tagged incorrectly.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
30.7.2001	30.7.2001	3	5800L	Injection fluid spill due to oxygen fitting failing on injection well.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Jul-Sep 01	7.12.2001	2	200L	Waste water from lab spilled due to sump pump failure.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.

4.9.2001	4.9.2001	3	5000L	Extraction fluid spill contained in bund & released to sump.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
13.11.2001	13.11.2001	3	5000L	Process fluid <sup>(c)</sup> spill contained in bund and returned to circuit.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
27.11.2001	27.11.2001	3	3500L	Process fluid spill contained in bund and returned to circuit.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Jul-Sep 01	7.12.2001	2	1900L	Spill of extraction fluid at the well house.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Jul-Sep 01	7.12.2001	2	Trace	Process fluid spill due to bund leak.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Jul-Sep 01	7.12.2001	2	1300L	Spill of injection fluid from well-head filter.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Jul-Sep 01	7.12.2001	2	400L	Spill of injection fluid from well-head filter.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Jul-Sep 01	7.12.2001	2	759L	Spill of extraction fluid from a poly weld failure.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
Jul-Sep 01	7.12.2001	2	600L	Spill of injection fluid from vent valve.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
	7.12.2001	2	600L	Spill of injection fluid from a filter skid.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
	7.12.2001	2	880L	Spill of injection fluid from loose bolt on an injection flange.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
	7.12.2001	4	1000L	Spill of pond fluid from an overhead pipe failure.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.

11.01.2002	21.3.2001	3	61000 L	Spill of extraction fluid due to burst ABS elbow in pump area.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
19.01.2002	21.3.2001	2	500 L	Spill of extraction fluid.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
3.02.2002	21.3.2001	2	200 L	Spill of extraction fluid.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
21.02.2002	21.3.2001	2	400 L	Spill of extraction fluid.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
7.03.2002	21.3.2001	2	900 L	Spill of extraction fluid.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
12.03.2002	21.3.2001	2	400 L	Spill of extraction fluid.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
16.3.2002	21.3.2002	4	20-50L	Spill of acid water that came into contact with hydrogen peroxide resulting in a small ignition.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
28.4.2002	13.6.2002	2	500L	Spill of extraction fluid during construction of a new pipeline in well field.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm..
1.5.2002	2.5.2002	3	6 600L	Spill of brine solution made up of evaporation pond fluid due to over-filling of tank.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
5.5.2002	13.6.2002	3	14,900L	Spill of injection fluid due to bore well-head joint failed.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
5.5.2002	13.6.2002	2	300L	Spill of injection fluid in the well field.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
12.5.2002	13.6.2002	2	590L	Spill of injection fluid in the well field.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.

Between 1.5.2002 and 12.6.2002	13.6.2002	2	50L - 400L	Six minor releases of injection fluid from vent valves in the well field.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
7.6.2002	13.6.2002	2	1 500L	Spill of injection fluid in the well field.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
13.6.2002	15.8.2002	2	1 750L	Plant brine mixing tank, salt solution/pond water Poor design of tank bund. <b>Action:</b> re-design brine mixing tank bund.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
27.6.2002	15.8.2002	2	570L	WHU-5 e709: Extraction solution Electro-fusion weld failure at pipe elbow. Poor quality elbow - one-off. <b>Action:</b> Investigated QA on EF joints. Returned to manufacturer	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
30.6.2002	15.8.2002	2	550L	1662 Wellfield 5: Injection solution. Wellhead broken when hit with airlifting rig whilst turning. <b>Action:</b> Strict adherence to having spotter to move rig at night	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
7.8.2002	15.8.2002	2	607L	Between plant ponds: Pressure indicator on pump fitting failed. <b>Action:</b> Replace and review fitting type.	Reported as per attached Spill Notification Criteria. No injury to personnel. No environmental harm.
30/8/02 - 1/11/02	28/11/02	2	300-1880	3 small spills of injection and extraction fluids.	No injury to personnel. No environmental harm.
2/12/02 - 23/1/03	20/2/03	2	200-1300	7 small spills of extraction and injection fluids	No injury to personnel and no environmental harm.

**SPILL NOTIFICATION CRITERIA\*  
FOR ISL URANIUM MINING OPERATIONS**

CLASS	DEFINITION	QUANTITY (litres)	REPORTING REQUIRED
1	Spills of raw Groundwater	>2,000, <10,000	Verbally at Quarterly ISL meeting
		>10,000	Written report to Chief Inspector of Mines within 24 hours
2	Spill of leach liquids in well-field outside bunded areas	>200, <2000	Verbal report to regulators at Quarterly Meeting
		>2000	Written report to Chief Inspector of Mines within 24 hours
3	Spill of leach liquids within plant bunds	bund volume exceeded or uncontrolled spill >2000 L	Written report to Chief Inspector of Mines within 24 hours
4	Reported by company for information only		None

**Footnote:**

- (a) Injection Fluid is generally less than 20 parts per million (0.002%) uranium.
- (b) Extraction fluid is generally between 50 - 200ppm (0.005 - 0.020%) uranium.
- (c) Process Fluid is generally between 15, 000 and 20, 000ppm (2%) uranium.