

XII. Permits, Species Killed, Captured

The following chart provides information on Antarctic Conservation Act (P.L. 95-541) Permits issued during 1 July 2004 to 30 June 2005.

Permit #	Active Dates	Permit Activity	Location	Purpose
2005-001	13 Oct 04 – 31 Jan 2004	Entry into ASPA	ASPA 121 Cape Royds	Will conduct scuba diving in the near-shore habitat of Cape Royds to study the organic enrichment benthic community from the runoff of guano.
2005-002	05 Oct 04 – 31 Dec 2004	Take	McMurdo Station vicinity	Collect blood samples from Weddell seals to quantify the dynamics of lipid uptake and utilization in a naturally foraging mammalian carnivore.
2005-003	20 Aug 04 – 28 Feb 2005	Introduce into Antarctica	McMurdo Station	Use of rotifers and dried fish food to rear dragon fish larvae in order to follow their elaboration of blood antifreeze glycoproteins.
2005-004	22 Aug 04 – 28 Feb 2006	Entry into ASPA	ASPA 123 Barwick Valley; ASPA 124 Cape Crozier; ASPA 154 Cape Evans; ASPA 156 Cape Royds; and, ASPA 157 Discovery Hut	Entry into sites to take specific photographs to illustrate a geographically arranged gazetteer – a “field guide” to features in the McMurdo Sound vicinity. Project falls under the Artists and Writers Program.
2005-005	01 Sep 04 – 31 Aug 2008	Entry into ASPA	Antarctic Peninsula; ASPA 128 Western Shore of Admiralty Bay; and ASPA 149 Cape Shirreff.	Survey and census the sites as part of an ongoing Antarctic Site Inventory project.
2005-006				

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2005-007	16 Aug 04 – 28 Feb 2005	Introduce into Antarctica	Crary Laboratory, McMurdo Station	Cultures of <i>E. coli</i> and algal cultures will serve as food for larval forms cultured in the Crary laboratory.
2005-008	21 Nov 04 – 31 Jan 2005	Take; Entry into ASPA	ASPA 116 New College Valley; ASPA 122 Arrival Heights	As part of an ongoing environmental monitoring program, soil samples and permafrost measurements will be taken to study the temporal and spatial scales of various types of disturbance in and around McMurdo Station.
2005-009	01 Nov 04 – 31 Dec 2005	Introduce into Antarctica	Dry Valleys and McMurdo Station Lab	Genetically modified bacteria (fluorescent green protein –GFPs – marker genes inserted) will be used to determine if phytoflagellates are selectively feeding on different strains of bacteria. If so, their grazing may impact on the diversity of the bacterial communities of the Dry Valleys.
2005-010	01 Oct 04 – 28 Feb 2005	Entry into ASPA	ASPA 106 Cape Hallett	Routine maintenance and download of data from an automatic weather station. Collection of water, snow and soil samples is an extension of the McMurdo Dry Valleys Long-Term Ecological Research project (McM-LTER).
2005-011	01 Oct 04 – 30 Sep 2009	Entry into ASPA	ASPA 122 Arrival Heights	Operation of ELF/VLF receiver, riometers and magnetometer for studies of the magnetic field and ionosphere, high latitude neutral mesospheric and thermospheric dynamics and thermodynamics, UV monitoring, aerosols investigations and pollution surveys. Maintenance and repair of equipment and facilities.

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2005-012	01 Nov 04 – 31 Jan 2006	Entry into ASPA	ASPA 121 Cape Royds	Collect water from Pony Lake to study the biodiversity of dissolved organic materials.
2005-013	14 Dec 04 – 20 Apr 2007	Take; Import into the U.S.A.; Entry into ASPA	ASPA 149 Cape Shirreff	Weddell seals will be tagged, weighed, blood samples taken, and instruments attached to learn more of the foraging ecology of large predators.
2005-015	01 Apr 05 – 31 Jly 2005	Take; Entry into ASPA	ASPA 152 Western Bransfield Strait; ASPA 153 East Dallmann Bay	Capture of Antarctic fishes for studies of their physiology and biochemistry.
2005-016	01 Dec 04 – 28 Feb 2005	Take; Introduce into Antarctica	Onboard ship laboratory	Phytoplankton cultures will be used to study the feeding rates of Antarctic protistan grazers.

ASPA = Antarctic Specially Protected Area (formerly SPA's and SSSI's)