

**Table 1.** Selected characteristics of sites for sampling simulated rainfall runoff from parking lots, Austin, Texas, 2003.

[--, not applicable]

Type of site	USGS site ID	Site name	Type of surface	Date sealant applied
Test plot	301725097415201	MON	coal-tar-emulsion-sealed	August 5–6, 2003
Test plot	301724097415101	TAR	coal-tar-emulsion-sealed	August 5–6, 2003
Test plot	301726097415301	PAV	asphalt-emulsion-sealed	August 5–6, 2003
Test plot	301724097415201	ASP	unsealed asphalt	--
Synoptic/parking lot in use	301431097465201	CNR	coal-tar-emulsion-sealed	July 2003
Synoptic/parking lot in use	301705097434001	LBJ	coal-tar-emulsion-sealed	July 2003
Synoptic/parking lot in use	301622097415801	OSL	coal-tar-emulsion-sealed	July 1999
Synoptic/parking lot in use	302337097402601	TCQ	coal-tar-emulsion-sealed	March 2003
Synoptic/parking lot in use	301533097431201	UNF	coal-tar-emulsion-sealed	November 2000
Synoptic/parking lot in use	301726097441801	UTN	coal-tar-emulsion-sealed	July 2003
Synoptic/parking lot in use	302640097481601	SSE	asphalt-emulsion-sealed	June 2003
Synoptic/parking lot in use	301651097434901	SOC	asphalt-emulsion-sealed	July 2003
Synoptic/parking lot in use	302724097475701	WWB	asphalt-emulsion-sealed	June 2003
Synoptic/parking lot in use	302700097443101	LAC	unsealed concrete	--
Synoptic/parking lot in use	302153097442301	LOW	unsealed concrete	--
Synoptic/parking lot in use	302003097450301	NWR	unsealed asphalt	--
Synoptic/parking lot in use	301557097462701	ZLK	unsealed asphalt	--

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003.

[All concentrations in micrograms per kilogram, rounded to two significant figures.  $\Sigma\text{PAH}_{\text{part}}$ , total particulate polycyclic aromatic hydrocarbons (for complete definition see text); E, estimated; d, dilution; n, result less than calculated reporting level; Q, quality-control data issues; v, analyte detected in associated laboratory blank; <, less than; --, not reported, not analyzed, or not applicable; CRM, certified reference material; I, interference from sample matrix; na, not available; nim, not in matrix; X, times. Note: Data analyzed by custom method and therefore not available in USGS National Water Information System database.]

Site name	Type of surface	Sampling date	Sample type	Batch	$\Sigma\text{PAH}_{\text{part}}^1$	Phenol	Phenol, remarks	<i>p</i> -cresol	<i>p</i> -cresol, remarks
Test plots									
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	1,700,000	E3,000	d,n,Q,v	E1,700	d,n,Q
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	1,200,000	E7,100	d,n,Q,v	E2,000	d,n,Q
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	96,000	E13,000	d,n,Q,v	E2,200	d,n,Q
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	410,000	E1,300	d,n,Q,v	E690	d,n,Q
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	530,000	<8,500	d,n,Q,v	<8,500	d,n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	4,000,000	<25,000	d,n,Q,v	<25,000	d,n
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	40,000	5,200	v	E650	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	25,000	E690	d,n,Q,v	E410	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	460,000	<3,500	d,n,Q,v	<3,500	d,n,Q,v
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	140,000	<3,500	d,n,Q,v	<3,500	d,n,Q,v
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	28,000	E2,800	d,n,Q,v	<4,000	d,n,Q,v
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	14,000	<5,000	d,n,Q,v	<5,000	d,n,Q,v
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	83,000,000	E20,000	d,n,v	38,000	v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	11,000,000	E7,300	d,n,v	<12,000	d,n,v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	110,000	7,300	v	E1,400	d,n,v
Parking lots in use									
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	2,000,000	<6,800	d,n,Q,v	<6,800	d,n
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	260,000	E2,600	d,n,Q,v	<6,800	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	240,000	<5,500	d,n,Q,v	<5,500	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	830,000	<4,000	d,n,Q,v	<4,000	d,n
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	75,000	<2,500	d,n,Q,v	<2,500	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	69,000	<2,000	d,n,Q,v	<2,000	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	64,000	<4,500	d,n,Q,v	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	9,000,000	E19,000	d,Q,v	<17,000	d,n,Q
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	2,000,000	E4,600	d,Q,v	<4,500	d,n,Q
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	770,000	E14,000	d,Q,v	<12,000	d,n,Q
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	1,300,000	E2,200	d,n,Q,v	E1,400	d,n,Q,v
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	520,000	<4,000	d,n,Q,v	<4,000	d,n,Q,v
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	7,500,000	E2,900	d,n,Q,v	E2,600	d,n,Q,v
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	4,300,000	E2,000	d,n,Q,v	E1,500	d,n,Q,v
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	7,200	<2,000	d,n,Q,v	E2,700	d,n,Q,v

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	$\Sigma$ PAH <sub>part</sub> <sup>1</sup>	Phenol	Phenol, remarks	<i>p</i> -cresol	<i>p</i> -cresol, remarks
Parking lots in use—Continued									
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	25,000,000	<25,000	d,n,Q,v	E10,000	d,n
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	340,000	<12,000	d,n,Q,v	<12,000	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	2,000,000	<25,000	d,n,Q,v	<25,000	d,n
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	7,100	E270	d,n,Q,v	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	15,000,000	E9,300	d,Q,v	<8,500	d,n,Q
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	11,000,000	E13,000	d,Q,v	<12,000	d,n,Q
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	9,400,000	E13,000	d,Q,v	<12,000	d,n,Q
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	9,900,000	E12,000	d,Q,v	<12,000	d,n,Q
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	17,000,000	E13,000	d,Q,v	<12,000	d,n,Q
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	20,000	<8,500	d,n,Q,v	<8,500	d,n,Q
Quality-control samples									
Spike, percent recovery				8022R03238	--	E28	--	E43	--
Blank				8022R03238	--	E5.6	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--	--
Spike, percent recovery				8022R03245	--	E31	--	55	--
Spike, percent recovery				8022R03245	--	E33	--	60	--
Spike, percent recovery				8022R03245	--	E50	--	80	--
Blank				8022R03245	--	E5.0	--	E43	--
Blank				8022R03245	--	E.97	--	<5.0	--
Blank				8022R03245	--	E1.2	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--	--
Spike, percent recovery				8022R03276	--	E14	--	E38	--
Blank				8022R03276	--	E4.9	--	E24	--
Spike, percent recovery				8022R03281	--	E6.4	--	E58	--
Blank				8022R03281	--	E9.5	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Naphthalene	Naphthalene, remarks	C1-128 Isomers, methylated naphthalenes <sup>3</sup>	C1-128 Isomers, methylated naphthalenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	12,000	--	E7,200	n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E6,400	d,n	E2,600	n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E2,300	d,n	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E5,800	d,n	<8,500	d,n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E24,000	d,n	<30,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	E570	d,n	<1,500	d,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E2,800	d,n,Q,v	<3,500	d,n
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n,Q,v	<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n,Q,v	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n,Q,v	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	4,400,000	v	E1,800,000	I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	64,000	v	E32,000	I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	E1,200	d,n,v	<2,500	d,n
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	18,000	--	E7,500	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E4,800	d,n	<6,800	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E4,200	d,n	<5,500	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	4,500	--	E3,600	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,500	d,n	<2,500	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,100	d,n	<2,000	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	E2,900	d,n	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	E14,000	d,n	E19,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	6,700	--	<4,500	d,n
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<12,000	d,n	<12,000	d,n
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E6,500	d,n,Q,v	<3,500	d,n
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E1,700	d,n,Q,v	<4,000	d,n
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E13,000	d,n,Q,v	E5,200	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E9,000	d,n,Q,v	E3,600	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n,v	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Naphthalene	Naphthalene, remarks	C1-128 Isomers, methylated naphthalenes <sup>3</sup>	C1-128 Isomers, methylated naphthalenes, remarks
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	320,000	--	E160,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E6,000	d,n	<12,000	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E17,000	d,n	<25,000	d,n
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<600	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	31,000	--	E89,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	22,000	--	<12,000	d,n
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	22,000	--	<12,000	d,n
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	17,000	--	<12,000	d,n
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	23,000	--	<12,000	d,n
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	67	--	--	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	28 (0–117)	--	--	--
Spike, percent recovery				8022R03245	66	--	--	--
Spike, percent recovery				8022R03245	70	--	--	--
Spike, percent recovery				8022R03245	72	--	--	--
Blank				8022R03245	E4.6	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	39 (23–105)	--	--	--
Spike, percent recovery				8022R03276	E50	--	--	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	73	--	--	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	2-Ethyl-naphthalene	2-Ethyl-naphthalene, remarks	2,6-Dimethyl-naphthalene	2,6-Dimethyl-naphthalene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E2,000	d,n	E2,300	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<10,000	d,n	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<6,700	d,n	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<8,500	d,n	<8,500	d,n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<25,000	d,n	<25,000	d,n
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,000	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n,v
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n,v
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n,v
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n,v
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	120,000	--	160,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E7,400	d,n	E10,000	d,n
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<2,500	d,n	<2,500	d,n
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<6,800	d,n	E5,300	d,n
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<6,800	d,n	<6,800	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<5,500	d,n	<5,500	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<4,000	d,n	<4,000	d,n
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,500	d,n	<2,500	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,000	d,n	<2,000	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<4,500	d,n	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<17,000	d,n,v	<17,000	d,n
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<4,500	d,n,v	<4,500	d,n
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<12,000	d,n,v	<12,000	d,n
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E1,300	d,n	<3,500	d,n,v
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n,v
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E2,000	d,n	<5,000	d,n,v
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E1,400	d,n	<3,500	d,n,v
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n,v

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	2-Ethyl-naphthalene	2-Ethyl-naphthalene, remarks	2,6-Dimethyl-naphthalene	2,6-Dimethyl-naphthalene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	E23,000	d,n	38,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<12,000	d,n	<12,000	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<25,000	d,n	<25,000	d,n
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E5,700	d,n,v	12,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	73	--	74	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	74	--	75	--
Spike, percent recovery				8022R03245	77	--	77	--
Spike, percent recovery				8022R03245	72	--	72	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	51	--	53	--
Blank				8022R03276	<5.0	--	E2.2	--
Spike, percent recovery				8022R03281	72	--	74	--
Blank				8022R03281	E1.4	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	1,6-Dimethyl-naphthalene	1,6-Dimethyl-naphthalene, remarks	C2-128 Isomers, C2-alkyated naphthalenes <sup>3</sup>	C2-128 Isomers, C2-alkyated naphthalenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E3,200	d,n	E5,800	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E3,400	d,n	E4,100	n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<6,700	d,n	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<8,500	d,n	<8,500	n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<25,000	d,n	<30,000	n,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,500	n,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,000	n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	120,000	v	E920,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E11,000	d,n,v	E36,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<2,500	d,n,v	<2,500	d,n
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	E6,400	d,n	E8,300	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<6,800	d,n	<6,800	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<5,500	d,n	<5,500	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<4,000	d,n	<4,000	d,n
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,500	d,n	<2,500	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,000	d,n	<2,000	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<4,500	d,n	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<17,000	d,n,v	<17,000	d,n
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<4,500	d,n,v	<4,500	d,n
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<12,000	d,n,v	<12,000	d,n
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.



**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	1,6-Dimethyl-naphthalene	1,6-Dimethyl-naphthalene, remarks	C2-128 Isomers, C2-alkyated naphthalenes <sup>3</sup>	C2-128 Isomers, C2-alkyated naphthalenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	36,000	--	E150,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<12,000	d,n	<12,000	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<25,000	d,n	<25,000	d,n
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	10,000	v	E53,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n,v	<12,000	d,n
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	72	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	75	--	na	--
Spike, percent recovery				8022R03245	78	--	na	--
Spike, percent recovery				8022R03245	73	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	E4.5	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	55	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	76	--	na	--
Blank				8022R03281	E1.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Acenaphthylene	Acenaphthylene, remarks	1,2-Dimethylnaphthalene	1,2-Dimethylnaphthalene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E3,800	d,n,Q	<9,000	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E5,000	d,n,Q	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n,Q	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E2,900	d,n,Q	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<8,500	d,n	<8,500	d,n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	36,000	--	<25,000	d,n
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	E490	d,n	<1,000	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E1,500	d,n	<3,500	d,n
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E1,200	d,n	<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	48,000	--	57,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	19,000	--	11,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	E1,000	d,n	<2,500	d,n
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	12,000	--	<6,800	d,n
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	7,500	--	<6,800	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	6,400	--	<5,500	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	4,900	--	<4,000	d,n
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	2,500	--	<2,500	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E2,000	d,n	<2,000	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	E4,200	d,n	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	36,000	v	<17,000	d,n
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	E4,300	d,n,v	<4,500	d,n
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	E7,600	d,n,v	<12,000	d,n
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	3,800	--	<3,500	d,n
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E2,800	d,n	<4,000	d,n
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	8,900	--	<5,000	d,n
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	5,600	--	<3,500	d,n
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Acenaphthylene	Acenaphthylene, remarks	1,2-Dimethylnaphthalene	1,2-Dimethylnaphthalene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	75,000	--	27,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<12,000	d,n	<12,000	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<25,000	d,n	<25,000	d,n
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	52,000	v	<8,500	d,n
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	15,000	v	<12,000	d,n
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	18,000	v	<12,000	d,n
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	26,000	v	<12,000	d,n
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	18,000	v	<12,000	d,n
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	E56	--	74	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	E19 (28–105)	--	--	--
Spike, percent recovery				8022R03245	62	--	76	--
Spike, percent recovery				8022R03245	66	--	77	--
Spike, percent recovery				8022R03245	66	--	73	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	27 (26–105)	--	--	--
Spike, percent recovery				8022R03276	58	--	58	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	73	--	78	--
Blank				8022R03281	E2.7	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Acenaphthene	Acenaphthene, remarks	C3-128 Isomers, C3-alkylated naphthalenes <sup>3</sup>	C3-128 Isomers, C3-alkylated naphthalenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	14,000	--	<9,000	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E5,400	d,n	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E2,000	d,n	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E6,300	d,n,v	<8,500	d,n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	31,000	v	<34,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,000	d,n,v	<1,000	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n,v	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	2,700,000	v	E520,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	14,000	v	E69,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	E1,200	d,n,v	<2,500	d,n
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	15,000	v	E8,900	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<6,800	d,n,v	<6,800	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<5,500	d,n,v	<5,500	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E3,000	d,n,v	<4,000	d,n
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,600	d,n,v	<2,500	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,300	d,n,v	<2,000	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<4,500	d,n,v	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	31,000	--	<21,000	d,n
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	E2,100	d,n	<4,500	d,n
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<12,000	d,n	<12,000	d,n
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E1,300	d,n	<3,500	d,n
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E3,300	d,n	<6,000	d,n
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E2,400	d,n	<3,500	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Acenaphthene	Acenaphthene, remarks	C3-128 Isomers, C3-alkylated naphthalenes <sup>3</sup>	C3-128 Isomers, C3-alkylated naphthalenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	420,000	v	E210,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E9,200	d,n,v	<12,000	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E19,000	d,n,v	<25,000	d,n
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n,v	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	150,000	--	E72,000	
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E7,600	d,n	<12,000	d,n
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E11,000	d,n	<12,000	d,n
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E5,700	d,n	<12,000	d,n
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E8,000	d,n	<12,000	d,n
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	72	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	44 (36–113)	--	--	--
Spike, percent recovery				8022R03245	74	--	na	--
Spike, percent recovery				8022R03245	72	--	na	--
Spike, percent recovery				8022R03245	74	--	na	--
Blank				8022R03245	E3.6	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	49 (36–105)	--	--	--
Spike, percent recovery				8022R03276	62	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	84	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	2,3,6-Trimethyl-naphthalene	2,3,6-Trimethyl-naphthalene, remarks	9H-Fluorene	9H-Fluorene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<9,000	d,n	19,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<10,000	d,n	E7,800	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<6,700	d,n	E2,000	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<8,500	d,n	E5,600	d,n,v
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<25,000	d,n	33,000	v
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,000	d,n	E600	d,n,v
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	E480	d,n,v
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	E2,200	d,n,v
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	E1,600	d,n,v
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	E1,500	d,n,v
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n,v
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	40,000	--	2,800,000	v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E11,000	d,n	210,000	v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<2,500	d,n	E2,300	d,n,v
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<6,800	d,n	15,000	v
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<6,800	d,n	E3,800	d,n,v
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<5,500	d,n	E3,300	d,n,v
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<4,000	d,n	E2,900	d,n,v
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,500	d,n	E1,300	d,n,v
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,000	d,n	E1,000	d,n,v
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<4,500	d,n	E2,200	d,n,v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<17,000	d,n	32,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<3,500	d,n	4,600	v
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<12,000	d,n	E7,900	d,n,v
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<3,500	d,n	3,600	v
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<4,000	d,n	E2,200	d,n,v
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<5,000	d,n	8,500	v
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<3,500	d,n	5,600	v
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n,v

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	2,3,6-Trimethyl-naphthalene	2,3,6-Trimethyl-naphthalene, remarks	9H-Fluorene	9H-Fluorene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	32,000	--	420,000	v
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<12,000	d,n	E7,700	d,n,v
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<25,000	d,n	E16,000	d,n,v
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	E280	d,n,v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E4,700	d,n	120,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<12,000	d,n	16,000	v
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n	25,000	v
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n	15,000	v
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<12,000	d,n	20,000	v
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n,v
Quality-control samples								
Spike, percent recovery				8022R03238	78	--	77	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	80	--	78	--
Spike, percent recovery				8022R03245	81	--	77	--
Spike, percent recovery				8022R03245	76	--	79	--
Blank				8022R03245	<5.0	--	E3.1	--
Blank				8022R03245	<5.0	--	E3.0	--
Blank				8022R03245	<5.0	--	E3.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	55 (41–106)	--
Spike, percent recovery				8022R03276	60	--	69	--
Blank				8022R03276	<5.0	--	E2.6	--
Spike, percent recovery				8022R03281	84	--	89	--
Blank				8022R03281	<5.0	--	E3.2	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C4-128 Isomers, C4-alkylated naphthalenes <sup>3</sup>	C4-128 Isomers, C4-alkylated naphthalenes, remarks	1-Methyl-9H-fluorene	1-Methyl-9H-fluorene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<15,000	d,I	<9,000	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<10,000	d,n	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<6,700	d,n	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<200,000	d,I	<8,500	d,n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<800,000	d,I	<25,000	d,n
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<22,000	d,I	<1,000	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<18,000	d,I	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<61,000	d,I	<3,500	d,n,v
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<58,000	d,I	<3,500	d,n,v
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<66,000	d,I	<4,000	d,n,v
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<46,000	d,I	<5,000	d,n,v
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<6,500,000	d,I	88,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<950,000	d,I	15,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<52,000	d,I	<2,500	d,n
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<220,000	d,I	E4,300	d,n
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<160,000	d,I	<6,800	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<130,000	d,I	<5,500	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<92,000	d,I	<4,000	d,n
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<53,000	d,I	<2,500	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<40,000	d,I	<2,000	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<90,000	d,I	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<340,000	d,I	E9,900	d,n
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<91,000	d,I	<4,500	d,n
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<230,000	d,I	<12,000	d,n
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<65,000	d,I	E1,400	d,n,v
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<69,000	d,I	<4,000	d,n,v
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<120,000	d,I	E2,500	d,n,v
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<81,000	d,I	<3,500	d,n,v
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<34,000	d,I	<2,000	d,n,v

Footnote at end of table.



**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C4-128 Isomers, C4-alkylated naphthalenes <sup>3</sup>	C4-128 Isomers, C4-alkylated naphthalenes, remarks	1-Methyl-9H-fluorene	1-Methyl-9H-fluorene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	<1,800,000	d,I	37,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<320,000	d,I	<12,000	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<590,000	d,I	<25,000	d,n
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<9,500	d,I	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<280,000	d,I	9,800	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<260,000	d,I	E7,700	d,n
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<420,000	d,I	E9,400	d,n
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<260,000	d,I	E7,600	d,n
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<310,000	d,I	E9,200	d,n
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<15,000	d,I	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	78	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	79	--
Spike, percent recovery				8022R03245	na	--	77	--
Spike, percent recovery				8022R03245	na	--	80	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	76	--
Blank				8022R03276	<5.0	--	E2.3	--
Spike, percent recovery				8022R03281	na	--	96	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Phenanthrene	Phenanthrene, remarks	Anthracene	Anthracene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	310,000	v	E50,000	d,Q,v
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	150,000	v	E29,000	d,Q,v
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E13,000	d,n,v	E5,000	d,n,Q,v
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	32,000	v	E6,400	d,n,Q,v
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	66,000	v	10,000	v
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	470,000	v	78,000	v
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	5,300	v	1,000	v
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	2,200	v	E560	d,n,v
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	66,000	--	4,400	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	12,000	--	E2,400	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	E2,800	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E1,400	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	19,000,000	v	4,700,000	v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	2,200,000	v	540,000	v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	20,000	v	3,500	v
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	290,000	v	21,000	v
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	28,000	v	E5,300	d,n,v
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	24,000	v	E4,600	d,n,v
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	35,000	v	7,100	v
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	5,800	v	E1,500	d,n,v
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	5,500	v	E1,300	d,n,v
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	6,600	v	E2,100	d,n,v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	960,000	v	75,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	69,000	v	14,000	v
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	88,000	v	E12,000	d,n,v
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	94,000	v	12,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	21,000	v	4,800	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	310,000	v	34,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	180,000	v	20,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	E720	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Phenanthrene	Phenanthrene, remarks	Anthracene	Anthracene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	4,500,000	v	430,000	v
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	42,000	v	<12,000	d,n,v
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	120,000	v	E23,000	d,n,v
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	970	v	E230	d,n,v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	2,900,000	v	120,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	460,000	v	74,000	v
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	850,000	v	140,000	v
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	390,000	v	72,000	v
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,500,000	v	100,000	v
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	<8,500	d,n,v
Quality-control samples								
Spike, percent recovery				8022R03238	73	--	E71	--
Blank				8022R03238	E1.8	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	61 (45–124)	--	E32 (38–105)	--
Spike, percent recovery				8022R03245	83	--	76	--
Spike, percent recovery				8022R03245	82	--	77	--
Spike, percent recovery				8022R03245	78	--	73	--
Blank				8022R03245	E5.6	--	E1.5	--
Blank				8022R03245	E5.0	--	<5.0	--
Blank				8022R03245	E4.1	--	E2.5	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	61 (40–114)	--	30 (31–105)	--
Spike, percent recovery				8022R03276	77	--	76	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	93	--	90	--
Blank				8022R03281	E3.1	--	E2.7	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C5-128 Isomers, C5-alkylated naphthalenes <sup>3</sup>	C5-128 Isomers, C5-alkylated naphthalenes, remarks	2-Methyl-anthracene	2-Methyl-anthracene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<45,000	d,I	E7,200	d,n,Q,v
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<35,000	d,I	E5,700	d,n,Q,v
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n,Q,v
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<15,000	d,I	E2,900	d,n,Q,v
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<19,000	d,I	<8,500	d,n,v
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<120,000	d,I	40,000	v
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,500	d,I	<1,000	d,n,v
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	E520	d,n,v
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	E1,900	d,n,v
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	E1,800	d,n,v
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n,v
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n,v
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<1,800,000	d,I	330,000	v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<350,000	d,I	41,000	v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<3,500	d,I	E1,500	d,n,v
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<55,000	d,I	8,300	v
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<13,000	d,I	<6,800	d,n,v
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<15,000	d,I	<11,000	d,n,v
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<93,000	d,I	4,600	v
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<3,800	d,I	E2,500	d,n,v
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<3,100	d,I	E1,900	d,n,v
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<5,500	d,I	<4,500	d,n,v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<200,000	d,I	17,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<40,000	d,I	E4,200	d,n,v
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<25,000	d,I	E7,900	d,n,v
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<9,500	d,I	E2,800	d,n,v
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<12,000	d,I	E2,300	d,n,v
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<170,000	d,I	7,200	v
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<88,000	d,I	4,300	v
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n,v

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C5-128 Isomers, C5-alkylated naphthalenes <sup>3</sup>	C5-128 Isomers, C5-alkylated naphthalenes, remarks	2-Methyl-anthracene	2-Methyl-anthracene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	<670,000	d,I	61,000	v
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<18,000	d,I	<12,000	d,n,v
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<68,000	d,I	28,000	v
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<500	d,n,v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<360,000	d,I	17,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<230,000	d,I	19,000	v
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<230,000	d,I	24,000	v
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<200,000	d,I	17,000	v
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<440,000	d,I	25,000	v
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n,v
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	69	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	73	--
Spike, percent recovery				8022R03245	na	--	74	--
Spike, percent recovery				8022R03245	na	--	72	--
Blank				8022R03245	<5.0	--	E3.0	--
Blank				8022R03245	<5.0	--	E6.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	72	--
Blank				8022R03276	<5.0	--	E3.2	--
Spike, percent recovery				8022R03281	na	--	88	--
Blank				8022R03281	<5.0	--	E3.7	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	4-5-Methylene-phenanthrene	4-5-Methylene-phenanthrene, remarks	C1-178 Isomers, methylated phenanthrene/anthracenes <sup>3</sup>	C1-178 Isomers, methylated phenanthrene/anthracenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	29,000	v	E46,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	17,000	v	E32,000	--
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E6,300	d,n,v	E8,800	n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E6,700	d,n,v	E11,000	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	10,000	v	E18,000	--
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	67,000	v	E120,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,000	d,n,v	E1,600	--
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n,v	E1,000	--
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E2,500	d,n	E9,900	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	E4,400	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	1,900,000	v	E2,700,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	240,000	v	E420,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	E1,300	d,n,v	E5,000	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	23,000	v	E53,000	d,n
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E5,700	d,n,v	E12,000	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E4,800	d,n,v	E9,800	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	6,200	v	E16,000	d,n
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E2,100	d,n,v	E3,800	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,700	d,n,v	E3,200	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	E3,100	d,n,v	E5,400	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	61,000	v	E210,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	1,200	v	E28,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	E8,300	d,n,v	E30,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	9,500	--	E28,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E2,500	d,n	E10,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	50,000	--	E120,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	25,000	--	E64,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	4-5-Methylene-phenanthrene	4-5-Methylene-phenanthrene, remarks	C1-178 Isomers, methylated phenanthrene/anthracenes <sup>3</sup>	C1-178 Isomers, methylated phenanthrene/anthracenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	440,000	v	E810,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E11,000	d,n,v	E21,000	--
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	29,000	v	E62,000	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n,v	E500	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	150,000	v	E470,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	100,000	v	E190,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	130,000	v	E260,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	81,000	v	E200,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	210,000	v	E460,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	84	--	na	--
Blank				8022R03238	E3.6	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	83	--	na	--
Spike, percent recovery				8022R03245	79	--	na	--
Spike, percent recovery				8022R03245	78	--	na	--
Blank				8022R03245	E3.4	--	<5.0	--
Blank				8022R03245	E3.8	--	<5.0	--
Blank				8022R03245	E4.1	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	82	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	98	--	na	--
Blank				8022R03281	E1.8	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	1-Methyl-phenanthrene	1-Methyl-phenanthrene, remarks	C2-178 Isomers, C2-alkylated phenanthrene/anthracenes <sup>3</sup>	C2-178 Isomers, C2-alkylated phenanthrene/anthracenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	9,200	--	E16,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E7,600	d,n,v	E21,000	--
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n,v	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E3,400	d,n,v	E8,600	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E5,300	d,n,v	E13,000	--
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	28,000	v	E89,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,000	d,n,Q,v	E1,400	--
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n,v	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E1,700	d,n,v	E4,400	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n,v	E3,700	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n,v	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n,v	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	390,000	v	E680,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	63,000	v	E220,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<2,500	d,n,v	E4,300	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	11,000	v	E35,000	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E3,800	d,n,v	E10,000	--
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E3,300	d,n,v	E8,900	--
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	4,200	v	E14,000	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,300	d,n,v	E3,500	--
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,100	d,n,v	E2,700	--
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	E2,000	d,n,v	E5,200	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	45,000	--	E95,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	7,100	--	E18,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	E6,700	d,n	E20,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	5,300	v	E23,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E2,400	d,n,v	E9,200	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	32,000	v	E67,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	17,000	v	E35,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n,v	<2,000	d,n

Footnote at end of table.



**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	1-Methyl-phenanthrene	1-Methyl-phenanthrene, remarks	C2-178 Isomers, C2-alkylated phenanthrene/anthracenes <sup>3</sup>	C2-178 Isomers, C2-alkylated phenanthrene/anthracenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	140,000	v	E440,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E7,000	d,n,v	E19,000	--
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E18,000	d,n,v	E57,000	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n,v	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	90,000	--	E160,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	46,000	--	E100,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	50,000	--	E180,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	45,000	--	E170,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	96,000	--	E190,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	81	--	na	--
Blank				8022R03238	E3.6	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	80	--	na	--
Spike, percent recovery				8022R03245	76	--	na	--
Spike, percent recovery				8022R03245	76	--	na	--
Blank				8022R03245	E2.4	--	<5.0	--
Blank				8022R03245	E2.7	--	<5.0	--
Blank				8022R03245	E2.7	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	80	--	na	--
Blank				8022R03276	E.90	--	<5.0	--
Spike, percent recovery				8022R03281	98	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Fluoranthene	Fluoranthene, remarks	Pyrene	Pyrene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	510,000	v	340,000	v
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	320,000	v	240,000	v
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	23,000	v	E17,000	d,n,v
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	110,000	v	85,000	v
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	160,000	v	110,000	v
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	1,100,000	v	870,000	v
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	11,000	v	7,000	v
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	6,100	v	4,800	v
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	160,000	v	97,000	v
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	38,000	v	29,000	v
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	6,000	v	4,600	v
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E3,000	d,n,v	E2,600	d,n,v
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	18,000,000	v	13,000,000	v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	2,800,000	v	2,200,000	v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	28,000	v	21,000	v
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	580,000	v	460,000	v
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	75,000	v	41,000	v
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	67,000	v	39,000	v
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	270,000	v	180,000	v
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	18,000	v	15,000	v
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	17,000	v	14,000	v
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	14,000	v	12,000	v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	2,700,000	v	2,000,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	520,000	v	420,000	v
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	260,000	v	160,000	v
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	360,000	v	280,000	v
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	140,000	v	100,000	v
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	2,200,000	v	1,800,000	v
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	1,300,000	v	1,000,000	v
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	E1,700	d,n,v	E1,600	d,n,v

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Fluoranthene	Fluoranthene, remarks	Pyrene	Pyrene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	6,700,000	v	5,300,000	v
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	91,000	v	73,000	v
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	580,000	v	440,000	v
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	1,500	v	1,300	v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	4,500,000	v	3,200,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	3,000,000	v	2,400,000	v
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	2,600,000	v	2,000,000	v
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	2,600,000	v	2,100,000	v
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	5,700,000	v	4,400,000	v
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	E5,400	d,n,v	E4,900	d,n,v
Quality-control samples								
Spike, percent recovery				8022R03238	85	--	86	--
Blank				8022R03238	E3.9	--	E4.1	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	64 (43–125)	--	62 (32–139)	--
Spike, percent recovery				8022R03245	85	--	87	--
Spike, percent recovery				8022R03245	82	--	82	--
Spike, percent recovery				8022R03245	81	--	82	--
Blank				8022R03245	E6.3	--	E4.6	--
Blank				8022R03245	E6.2	--	E5.5	--
Blank				8022R03245	E5.0	--	E4.7	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	62 (37–115)	--	65 (46–112)	--
Spike, percent recovery				8022R03276	82	--	82	--
Blank				8022R03276	E3.5	--	E3.4	--
Spike, percent recovery				8022R03281	100	--	100	--
Blank				8022R03281	E5.6	--	E5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C3-178 Isomers, C3-alkylated phenanthrene/anthracenes <sup>3</sup>	C3-178 Isomers, C3-alkylated phenanthrene/anthracenes, remarks	C4-178 Isomers, C4-alkylated phenanthrene/anthracenes <sup>3</sup>	C4-178 Isomers, C4-alkylated phenanthrene/anthracenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<9,000	d,n	<9,000	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<20,000	d,I	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<8,000	d,I	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<12,000	d,I	<9,500	d,I
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<82,000	d,I	<46,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,500	d,I	<1,000	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<250,000	d,I	<55,000	d,I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<150,000	d,I	<48,000	d,I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<4,000	d,I	<2,500	d,n
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<24,000	d,I	<12,000	d,I
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<9,500	d,I	<8,000	d,I
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<9,000	d,I	<7,000	d,I
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<12,000	d,I	<6,000	d,I
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<3,200	d,I	<2,700	d,I
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,500	d,I	<2,100	d,I
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<5,500	d,I	<5,000	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<40,000	d,I	<17,000	d,n
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<10,000	d,I	<5,000	d,I
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<18,000	d,I	<12,000	d,n
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<15,000	d,I	<7,500	d,I
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<6,500	d,I	<3,500	d,I
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<27,000	d,I	<18,000	d,I
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<16,000	d,I	<5,500	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C3-178 Isomers, C3-alkylated phenanthrene/anthracenes <sup>3</sup>	C3-178 Isomers, C3-alkylated phenanthrene/anthracenes, remarks	C4-178 Isomers, C4-alkylated phenanthrene/anthracenes <sup>3</sup>	C4-178 Isomers, C4-alkylated phenanthrene/anthracenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	<260,000	d,I	<81,000	d,I
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<18,000	d,I	<16,000	d,I
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<54,000	d,I	<36,000	d,I
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<60,000	d,I	<12,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<42,000	d,I	<17,000	d,I
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<110,000	d,I	<43,000	d,I
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<120,000	d,I	<30,000	d,I
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<67,000	d,I	<17,000	d,I
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	1-Methylpyrene	1-Methylpyrene, remarks	C1-202 Isomers, methylated fluoranthene/pyrenes <sup>3</sup>	C1-202 Isomers, methylated fluoranthene/pyrenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E8,300	d,n,v	E120,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E9,600	d,n,v	E99,000	--
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n,v	E11,000	n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E5,100	d,n,v	E40,000	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E8,000	d,n,v	E39,000	--
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	44,000	v	E340,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	E540	d,n,v	E2,300	--
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	E460	d,n,v	E2,100	--
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E2,100	d,n	E21,000	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E1,900	d,n	E12,000	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E970	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	260,000	v	E4,200,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	69,000	v	E940,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	E1,600	d,n,v	E7,400	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	15,000	v	E140,000	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E5,600	d,n,v	E16,000	--
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E5,000	d,n,v	E15,000	--
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	6,200	v	E59,000	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E2,100	d,n,v	E6,500	--
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E1,600	d,n,v	E5,500	--
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	E3,200	d,n,v	E6,000	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	44,000	v	E320,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	13,000	v	E120,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	E11,000	d,n,v	E40,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	7,300	--	E95,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	4,300	--	E37,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	44,000	--	E540,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	22,000	--	E260,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	1-Methylpyrene	1-Methylpyrene, remarks	C1-202 Isomers, methylated fluoranthene/pyrenes <sup>3</sup>	C1-202 Isomers, methylated fluoranthene/pyrenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	160,000	v	E1,900,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E11,000	d,n,v	E28,000	--
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	29,000	v	E170,000	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n,v	E610	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	58,000	v	E490,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	71,000	v	E690,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	64,000	v	E700,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	75,000	v	E660,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	97,000	v	E920,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	86	--	na	--
Blank				8022R03238	E4.7	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	83	--	na	--
Spike, percent recovery				8022R03245	77	--	na	--
Spike, percent recovery				8022R03245	83	--	na	--
Blank				8022R03245	E2.4	--	<5.0	--
Blank				8022R03245	E4.4	--	<5.0	--
Blank				8022R03245	E4.2	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	82	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	98	--	na	--
Blank				8022R03281	E4.3	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C2-202 Isomers, C2-alkylated fluoranthene/pyrenes <sup>3</sup>	C2-202 Isomers, C2-alkylated fluoranthene/pyrenes, remarks	C5-178 Isomers, C5-alkylated phenanthrene/anthracenes <sup>3</sup>	C5-178 Isomers, C5-alkylated phenanthrene/anthracenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E89,000	--	<15,000	d,I
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E74,000	--	<25,000	d,I
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E14,000	n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E20,000	--	<9,500	d,I
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E37,000	--	<12,000	d,I
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E220,000	--	<88,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<5,000	d,I	<2,000	d,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<2,000	d,I	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<45,000	d,I	<4,500	d,I
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<10,000	d,I	<4,000	d,I
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E1,100,000	--	<350,000	d,I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E310,000	--	<150,000	d,I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<7,500	d,I	<8,000	d,I
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	E150,000	--	<32,000	d,I
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E34,000	--	<16,000	d,I
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E29,000	--	<14,000	d,I
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E93,000	--	<25,000	d,I
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E7,000	--	<3,900	d,I
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E6,300	--	<3,100	d,I
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	E7,200	--	<6,500	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<750,000	d,I	<200,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<210,000	d,I	<24,000	d,I
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<69,000	d,I	<26,000	d,I
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E130,000	--	<30,000	d,I
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<67,000	d,I	<13,000	d,I
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E710,000	--	<68,000	d,I
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E400,000	--	<38,000	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.



**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C2-202 Isomers, C2-alkylated fluoranthene/pyrenes <sup>3</sup>	C2-202 Isomers, C2-alkylated fluoranthene/pyrenes, remarks	C5-178 Isomers, C5-alkylated phenanthrene/anthracenes <sup>3</sup>	C5-178 Isomers, C5-alkylated phenanthrene/anthracenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	E1,100,000	--	<260,000	d,I
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E30,000	--	<22,000	d,I
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E180,000	--	<80,000	d,I
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<600	d,I	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E980,000	--	<81,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E840,000	--	<100,000	d,I
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E420,000	--	<130,000	d,I
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E900,000	--	<160,000	d,I
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<1,200,000	d,I	<100,000	d,I
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benz(a)-anthracene	Benz(a)-anthracene, remarks	Chrysene	Chrysene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	110,000	v	190,000	v
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	100,000	v	180,000	v
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E9,200	d,n,v	E17,000	d,n,v
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	44,000	v	60,000	v
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	39,000	v	70,000	v
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	350,000	v	570,000	v
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	1,900	v	6,000	v
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	2,800	v	3,700	v
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	16,000	v	80,000	v
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	14,000	v	25,000	v
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	E2,900	d,n,v	E3,800	d,n,v
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E2,200	d,n,v	E1,900	d,n,v
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	5,000,000	v	5,200,000	v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	940,000	v	1,100,000	v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	10,000	v	13,000	v
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	110,000	v	310,000	v
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	15,000	v	50,000	v
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	15,000	v	47,000	v
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	48,000	v	190,000	v
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	6,800	v	9,800	v
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	5,900	v	9,300	v
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	7,200	v	6,800	v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	590,000	v	1,500,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	180,000	v	460,000	v
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	42,000	v	120,000	v
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	86,000	v	280,000	v
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	42,000	v	120,000	v
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	690,000	v	1,300,000	v
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	360,000	v	800,000	v
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n,v	E990	d,n,v

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benz(a)-anthracene	Benz(a)-anthracene, remarks	Chrysene	Chrysene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	1,700,000	v	2,800,000	v
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	28,000	v	41,000	v
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	170,000	v	380,000	v
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	820	v	870	v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	930,000	v	1,900,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	1,200,000	v	1,900,000	v
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	980,000	v	1,400,000	v
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,200,000	v	1,900,000	v
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,400,000	v	2,400,000	v
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	<8,500	d,n,v
Quality-control samples								
Spike, percent recovery				8022R03238	76	--	78	--
Blank				8022R03238	E4.8	--	E4.2	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	62 (42–126)	--
Spike, percent recovery				8022R03245	68	--	70	--
Spike, percent recovery				8022R03245	68	--	68	--
Spike, percent recovery				8022R03245	73	--	62	--
Blank				8022R03245	E6.2	--	E4.0	--
Blank				8022R03245	E7.6	--	E1.2	--
Blank				8022R03245	E7.0	--	E.57	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	57 (43–116)	--	65 (47–119)	--
Spike, percent recovery				8022R03276	73	--	74	--
Blank				8022R03276	E4.9	--	E2.1	--
Spike, percent recovery				8022R03281	90	--	94	--
Blank				8022R03281	E5.7	--	E3.5	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C3-202 Isomers, C3-alkylated fluoranthene/pyrenes <sup>3</sup>	C3-202 Isomers, C3-alkylated fluoranthene/pyrenes, remarks	C1-228 Isomers, methylated benzo(a)-anthracene/chrysenes <sup>3</sup>	C1-228 Isomers, methylated benzo(a)-anthracene/chrysenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<9,000	d,n	E46,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<10,000	d,n	E54,000	--
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	E8,900	n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<6,700	d,n	E25,000	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<10,000	d,I	E25,000	--
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<41,000	d,I	E210,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,000	d,n	<2,000	d,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	<2,000	d,I
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	E12,000	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<3,500	d,n	E8,800	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<140,000	d,I	E1,900,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<30,000	d,I	E430,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<2,500	d,n	E6,500	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<12,000	d,I	E85,000	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<8,000	d,I	E18,000	--
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<7,000	d,I	E17,000	--
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E8,000	--	E45,000	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,500	d,n	E6,100	--
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<2,000	d,n	E5,100	--
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<4,500	d,n	E6,900	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<34,000	d,I	E250,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<9,000	d,I	E85,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<14,000	d,I	E32,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<7,000	d,I	E70,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<4,500	d,I	E37,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<29,000	d,I	E370,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<16,000	d,I	E190,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C3-202 Isomers, C3-alkylated fluoranthene/pyrenes <sup>3</sup>	C3-202 Isomers, C3-alkylated fluoranthene/pyrenes, remarks	C1-228 Isomers, methylated benzo(a)-anthracene/chrysenes <sup>3</sup>	C1-228 Isomers, methylated benzo(a)-anthracene/chrysenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	E75,000	--	E980,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<13,000	d,I	E26,000	--
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<32,000	d,I	E140,000	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<700	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<30,000	d,I	E330,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<33,000	d,I	E450,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<26,000	d,I	E400,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<30,000	d,I	E530,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<46,000	d,I	E460,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C4-202 Isomers, C4-alkylated fluoranthene/pyrenes <sup>3</sup>	C4-202 Isomers, C4-alkylated fluoranthene/pyrenes, remarks	C5-202 Isomers, C5-alkylated fluoranthene/pyrenes <sup>3</sup>	C5-202 Isomers, C5-alkylated fluoranthene/pyrenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<35,000	d,I	<9,000	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<30,000	d,I	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<9,000	d,I	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<22,000	d,I	<8,500	d,I
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<120,000	d,I	<42,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<2,000	d,I	<1,000	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<22,000	d,I	<3,500	d,n
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<5,000	d,I	<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<450,000	d,I	<150,000	d,I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<150,000	d,I	<45,000	d,I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<5,000	d,I	<4,500	d,I
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<77,000	d,I	<16,000	d,I
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<20,000	d,I	<10,000	d,I
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<16,000	d,I	<8,500	d,I
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<42,000	d,I	<10,000	d,I
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<4,500	d,I	<3,000	d,I
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<3,800	d,I	<2,100	d,I
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<6,000	d,I	<5,000	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<240,000	d,I	<39,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<83,000	d,I	<12,000	d,I
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<30,000	d,I	<17,000	d,I
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<54,000	d,I	<14,000	d,I
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<30,000	d,I	<7,000	d,I
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<270,000	d,I	<30,000	d,I
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<140,000	d,I	<18,000	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C4-202 Isomers, C4-alkylated fluoranthene/pyrenes <sup>3</sup>	C4-202 Isomers, C4-alkylated fluoranthene/pyrenes, remarks	C5-202 Isomers, C5-alkylated fluoranthene/pyrenes <sup>3</sup>	C5-202 Isomers, C5-alkylated fluoranthene/pyrenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	<450,000	d,I	<100,000	d,I
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<22,000	d,I	<16,000	d,I
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<95,000	d,I	<46,000	d,I
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<270,000	d,I	<25,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<300,000	d,I	<44,000	d,I
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<190,000	d,I	<53,000	d,I
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<310,000	d,I	<52,000	d,I
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<350,000	d,I	<46,000	d,I
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C2-228 Isomers, C2-alkylated benzo(a)-anthracene/chrysenes <sup>3</sup>	C2-228 Isomers, C2-alkylated benzo(a)-anthracene/chrysenes, remarks	Benzo(b)-fluoranthene	Benzo(b)-fluoranthene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<20,000	d,I	160,000	v
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E24,000	--	180,000	v
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	E14,000	d,n,v
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E12,000	--	61,000	v
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<16,000	d,I	87,000	v
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E120,000	--	560,000	v
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<1,500	d,I	5,600	v
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<1,000	d,n	4,200	v
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<6,500	d,I	59,000	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<5,500	d,I	21,000	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	7,600	--
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	E3,700	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<550,000	d,I	4,800,000	v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E200,000	--	1,000,000	v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	E5,900	--	12,000	v
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<46,000	d,n	370,000	v
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<16,000	d,I	66,000	v
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<14,000	d,I	76,000	v
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E25,000	d,I	220,000	v
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E4,600	--	12,000	v
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<3,800	d,I	13,000	v
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<7,500	d,I	12,000	v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<95,000	d,I	1,400,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<34,000	d,I	450,000	v
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<23,000	d,I	100,000	v
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E36,000	--	250,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E19,000	--	100,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<140,000	d,I	980,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<72,000	d,I	690,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	2,400	--

Footnote at end of table.



**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C2-228 Isomers, C2-alkylated benzo(a)-anthracene/chrysenes <sup>3</sup>	C2-228 Isomers, C2-alkylated benzo(a)-anthracene/chrysenes, remarks	Benzo(b)-fluoranthene	Benzo(b)-fluoranthene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	E460,000	--	2,300,000	v
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<24,000	d,I	48,000	v
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E87,000	--	440,000	v
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<600	d,I	1,200	v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<120,000	d,I	1,600,000	v
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<170,000	d,I	1,600,000	v
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E220,000	d,I	1,300,000	v
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<270,000	d,I	1,700,000	v
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<160,000	d,I	1,800,000	v
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n,v
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	82	--
Blank				8022R03238	<5.0	--	E4.5	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	75 (37–128)	--
Spike, percent recovery				8022R03245	na	--	62	--
Spike, percent recovery				8022R03245	na	--	73	--
Spike, percent recovery				8022R03245	na	--	100	--
Blank				8022R03245	<5.0	--	E6.0	--
Blank				8022R03245	<5.0	--	E4.8	--
Blank				8022R03245	<5.0	--	E4.2	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	72 (38–123)	--
Spike, percent recovery				8022R03276	na	--	69	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	90	--
Blank				8022R03281	<5.0	--	E7.4	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benzo(k)-fluoranthene	Benzo(k)-fluoranthene, remarks	Benzo(e)-pyrene	Benzo(e)-pyrene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	110,000	--	95,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	110,000	--	100,000	--
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E6,900	d,n	E10,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	45,000	--	42,000	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	48,000	v	46,000	--
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	410,000	v	370,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	4,500	v	4,100	--
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	3,600	v	3,000	--
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	39,000	--	38,000	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	16,000	--	15,000	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	6,300	--	5,600	--
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E3,300	d,n	E2,600	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	4,400,000	v	3,000,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	730,000	v	690,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	9,800	v	8,900	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	170,000	v	200,000	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	29,000	v	40,000	--
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	20,000	v	37,000	--
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	99,000	v	100,000	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	7,900	v	9,100	--
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	7,000	v	8,400	--
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	5,800	v	9,200	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	830,000	v	820,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	260,000	v	280,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	68,000	v	66,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	150,000	--	160,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	71,000	--	72,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	880,000	--	740,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	550,000	--	480,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	2,300	--	E1,600	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benzo(k)-fluoranthene	Benzo(k)-fluoranthene, remarks	Benzo(e)-pyrene	Benzo(e)-pyrene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	1,400,000	v	1,700,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	30,000	v	37,000	--
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	270,000	v	250,000	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	1,100	v	820	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	1,300,000	v	1,100,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	1,500,000	v	1,200,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	700,000	v	800,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	890,000	v	1,200,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,600,000	v	1,300,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n,v	E6,300	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	79	--	nim	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	76	--	nim	--
Spike, percent recovery				8022R03245	66	--	nim	--
Spike, percent recovery				8022R03245	65	--	nim	--
Blank				8022R03245	E2.1	--	E4.1	--
Blank				8022R03245	E1.4	--	<5.0	--
Blank				8022R03245	E1.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	69 (41–132)	--	--	--
Spike, percent recovery				8022R03276	65	--	nim	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	82	--	nim	--
Blank				8022R03281	E6.3	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benzo(a)-pyrene	Benzo(a)-pyrene, remarks	Perylene	Perylene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	100,000	--	26,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	100,000	--	30,000	--
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E12,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	53,000	--	16,000	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	41,000	--	E8,100	d,n
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	400,000	--	100,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	3,800	--	E680	d,n
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	3,500	--	E920	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	28,000	--	4,400	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	17,000	--	4,400	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	6,200	--	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E3,400	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	4,600,000	--	1,500,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	920,000	--	280,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	11,000	--	3,100	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	170,000	--	33,000	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	21,000	--	E2,500	d,n
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	22,000	--	E3,700	d,n
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	68,000	--	17,000	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	7,600	--	E1,300	d,n
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	7,300	--	E1,300	d,n
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	7,000	--	<4,500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	790,000	v	200,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	250,000	v	75,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	55,000	v	15,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	140,000	--	31,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	63,000	--	17,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	830,000	--	230,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	490,000	--	120,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	2,200	--	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benzo(a)-pyrene	Benzo(a)-pyrene, remarks	Perylene	Perylene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	2,000,000	--	520,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	30,000	--	E4,100	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	220,000	--	56,000	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	1,100	--	E220	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	1,200,000	v	280,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	1,400,000	v	440,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,200,000	v	300,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,300,000	v	370,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,500,000	v	350,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	9,700	v	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	66	--	nim	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	44 (39–104)	--	--	--
Spike, percent recovery				8022R03245	54	--	nim	--
Spike, percent recovery				8022R03245	55	--	nim	--
Spike, percent recovery				8022R03245	62	--	nim	--
Blank				8022R03245	E7.3	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	31 (33–105)	--	--	--
Spike, percent recovery				8022R03276	67	--	nim	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	82	--	nim	--
Blank				8022R03281	E6.9	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C1-252 Isomers, C1-methylated benzopyrene/ perylenes <sup>3</sup>	C1-252 Isomers, C1-methylated benzopyrene/ perylenes, remarks	C3-228 Isomers, C3-benzo(a)-anthracene/ chrysenes <sup>3</sup>	C3-228 Isomers, C3-benzo(a)-anthracene/ chrysenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E48,000	--	<10,000	d,I
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E58,000	--	<15,000	d,I
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<20,000	d,I	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E30,000	--	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<28,000	d,I	<14,000	d,I
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<230,000	d,I	E55,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<4,500	d,I	<1,500	d,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<4,000	d,I	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<16,000	d,I	<7,500	d,I
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E13,000		<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<9,000	d,I	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,200	d,I	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E2,000,000	--	<150,000	d,I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E460,000	--	<35,000	d,I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<13,000	d,I	<3,000	d,I
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	E85,000	--	<20,000	d,I
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<22,000	d,I	<12,000	d,I
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<20,000	d,I	<10,000	d,I
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E44,000	--	E10,000	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<7,200	d,I	<3,500	d,I
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<6,100	d,I	<2,600	d,I
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<9,000	d,I	<6,000	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	E340,000	--	<40,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	E120,000	--	<12,000	d,I
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<52,000	d,I	<14,000	d,I
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E79,000	--	<14,000	d,I
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E41,000	--	<7,500	d,I
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E340,000	--	<42,000	d,I
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E180,000	--	<26,000	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<4,000	d,I	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C1-252 Isomers, C1-methylated benzopyrene/ perylenes <sup>3</sup>	C1-252 Isomers, C1-methylated benzopyrene/ perylenes, remarks	C3-228 Isomers, C3-benzo(a)-anthracene/ chrysenes <sup>3</sup>	C3-228 Isomers, C3-benzo(a)-anthracene/ chrysenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	E930,000	--	<84,000	d,I
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<32,000	d,I	<17,000	d,I
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<140,000	d,n	<48,000	d,I
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<2,000	d,I	<500	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E410,000	--	<41,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E560,000	--	<46,000	d,I
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E520,000	--	<31,000	d,I
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E640,000	--	<44,000	d,I
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E510,000	--	<43,000	d,I
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<17,000	d,I	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C2-252 Isomers, C2-alkylated benzopyrene/ perylenes <sup>3</sup>	C2-252 isomers, C2-alkylated benzopyrene/ perylenes, remarks	C4-228 isomers, C4-benzo(a)-anthracene/ chrysenes <sup>3</sup>	C4-228 isomers, C4-benzo(a)-anthracene/ chrysenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<30,000	d,I	<9,000	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<35,000	d,I	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<20,000	d,I	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<22,000	d,I	<16,000	d,I
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<170,000	d,I	<95,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<4,000	d,I	<2,000	d,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<3,000	d,I	<1,500	d,I
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<22,000	d,I	<7,500	d,I
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<9,000	d,I	<5,000	d,I
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<7,000	d,I	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<980,000	d,I	<620,000	d,I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<300,000	d,I	<150,000	d,I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<10,000	d,I	<5,000	d,I
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	E94,000	--	<38,000	d,I
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<15,000	d,I	<12,000	d,I
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<20,000	d,I	<14,000	d,I
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E48,000	--	<22,000	d,I
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<6,500	d,I	<4,200	d,I
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<5,800	d,I	<3,400	d,I
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<10,000	d,I	<6,500	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<480,000	d,I	<130,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<150,000	d,I	<40,000	d,I
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<52,000	d,I	<22,000	d,I
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<82,000	d,I	<32,000	d,I
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<49,000	d,I	<18,000	d,I
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<370,000	d,I	<130,000	d,I
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<21,000	d,I	<72,000	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<3,000	d,I	<2,000	d,n

Footnote at end of table.



**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C2-252 Isomers, C2-alkylated benzopyrene/ perylenes <sup>3</sup>	C2-252 isomers, C2-alkylated benzopyrene/ perylenes, remarks	C4-228 isomers, C4-benzo(a)-anthracene/ chrysenes <sup>3</sup>	C4-228 isomers, C4-benzo(a)-anthracene/ chrysenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	<760,000	d,I	<320,000	d,I
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<25,000	d,I	<22,000	d,I
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<140,000	d,I	<76,000	d,I
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<1,500	d,I	<600	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<560,000	d,I	<150,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<610,000	d,I	<180,000	d,I
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<420,000	d,I	<140,000	d,I
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<770,000	d,I	<210,000	d,I
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<610,000	d,I	<160,000	d,I
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<12,000	d,I	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benzo-( <i>g,h,i</i> )-perylene	Benzo-( <i>g,h,i</i> )-perylene, remarks	Indeno-(1,2,3- <i>c,d</i> )-pyrene	Indeno-(1,2,3- <i>c,d</i> )-pyrene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	76,000	--	90,000	--
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	86,000	--	100,000	--
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E9,100	d,n	E8,400	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	42,000	--	48,000	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	40,000	--	E53,000	d,Q,v
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	340,000	--	E280,000	d,Q,v
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	5,600	--	4,900	--
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	3,500	--	3,400	--
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	33,000	--	35,000	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	16,000	--	16,000	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	7,900	--	6,400	--
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E3,000	d,n	E2,400	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	3,300,000	--	E4,800,000	d,Q,v
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	660,000	--	E980,000	d,Q,v
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	11,000	--	11,000	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	180,000	--	E260,000	d,Q,v
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	38,000	--	E45,000	d,Q,v
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	34,000	--	E37,000	d,Q,v
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	86,000	--	E92,000	d,Q,v
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	8,300	--	E8,600	d,Q,v
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	8,500	--	E6,300	d,Q,v
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	9,800	--	E12,000	d,Q,v
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	830,000	--	960,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	290,000	--	320,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	76,000	--	76,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	160,000	--	170,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	72,000	--	77,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	850,000	--	880,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	520,000	--	530,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	2,100	--	E1,600	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Benzo-(g,h,i)-perylene	Benzo-(g,h,i)-perylene, remarks	Indeno-(1,2,3-c,d)-pyrene	Indeno-(1,2,3-c,d)-pyrene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	1,700,000	--	E2,500,000	d,Q,v
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	31,000	--	E46,000	d,Q,v
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	240,000	--	E240,000	d,Q,v
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	980	--	860	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	1,000,000	--	1,200,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	1,200,000	--	1,200,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	820,000	--	940,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,100,000	--	1,200,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	1,200,000	--	1,300,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	73	--	80	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	63	--	E70	--
Spike, percent recovery				8022R03245	60	--	63	--
Spike, percent recovery				8022R03245	76	--	110	--
Blank				8022R03245	<5.0	--	E8.1	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	78	--	81	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	92	--	96	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Dibenzo-(a,h)-anthracene	Dibenzo-(a,h)-anthracene, remarks	C3-252 Isomers, C3-alkylated benzopyrene/ perylenes <sup>3</sup>	C3-252 Isomers, C3-alkylated benzopyrene/ perylenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	18,000	--	<15,000	d,I
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	21,000	--	<15,000	d,I
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	11,000	--	<8,500	d,I
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	14,000	--	<14,000	d,I
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	82,000	--	<80,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	1,600	--	<3,000	d,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	1,300	--	<2,500	d,I
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	6,000	--	<5,500	d,I
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	4,800	--	<5,000	d,I
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<4,000	d,n	<5,000	d,I
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	280,000	--	<300,000	d,I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	64,000	--	<150,000	d,I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<2,500	d,n	<9,500	d,I
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	32,000	--	<41,000	d,I
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	10,000	--	<18,000	d,I
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	9,800	--	<14,000	d,I
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	19,000	--	<21,000	d,I
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	3,600	--	<5,000	d,I
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	2,800	--	<4,000	d,I
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<4,500	d,n	<7,500	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	170,000	--	<160,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	56,000	--	<48,000	d,I
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	23,000	--	<32,000	d,I
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	28,000	--	<30,000	d,I
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	15,000	--	<21,000	d,I
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	220,000	--	<87,000	d,I
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	88,000	--	<52,000	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,000	d,n	<3,000	d,I

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Dibenzo-(a,h)-anthracene	Dibenzo-(a,h)-anthracene, remarks	C3-252 Isomers, C3-alkylated benzopyrene/ perylenes <sup>3</sup>	C3-252 Isomers, C3-alkylated benzopyrene/ perylenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	350,000	--	<280,000	d,I
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	18,000	--	<21,000	d,I
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	70,000	--	<78,000	d,I
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<500	d,n	<2,000	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	270,000	--	<150,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	260,000	--	<180,000	d,I
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	200,000	--	<160,000	d,I
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	280,000	--	<260,000	d,I
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	240,000	--	<160,000	d,I
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<8,500	d,n	<12,000	d,I
Quality-control samples								
Spike, percent recovery				8022R03238	72	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	62	--	na	--
Spike, percent recovery				8022R03245	60	--	na	--
Spike, percent recovery				8022R03245	67	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	78	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	94	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C4-252 Isomers, C4-alkylated benzopyrene/ perylenes <sup>3</sup>	C4-252 Isomers, C4-alkylated benzopyrene/ perylenes, remarks	C5-228 Isomers, C5-benzo(a)-anthracene/ chrysenes <sup>3</sup>	C5-228 Isomers, C5-benzo(a)-anthracene/ chrysenes, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<15,000	d,I	<9,000	d,n
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<11,000	d,I	<10,000	d,n
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	<19,000	d,n
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<6,700	d,n	<6,700	d,n
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<12,000	d,I	<12,000	d,I
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<58,000	d,I	<54,000	d,I
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<2,500	d,I	<1,500	d,I
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<2,500	d,I	<1,000	d,n
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<8,500	d,I	<3,500	d,n
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<5,000	d,I	<3,500	d,n
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<6,000	d,I	<4,000	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	<5,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<300,000	d,I	<150,000	d,I
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<65,000	d,I	<45,000	d,I
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<6,500	d,I	<4,500	d,I
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<26,000	d,I	<16,000	d,I
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<12,000	d,I	<12,000	d,I
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<10,000	d,I	<11,000	d,I
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<14,000	d,I	<13,000	d,I
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<4,000	d,I	<4,000	d,I
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<3,200	d,I	<3,700	d,I
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<6,000	d,I	<6,500	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<140,000	d,I	<46,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<46,000	d,I	<14,000	d,I
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<30,000	d,I	<23,000	d,I
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<19,000	d,I	<12,000	d,I
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<11,000	d,I	<7,000	d,I
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<77,000	d,I	<26,000	d,I
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<38,000	d,I	<16,000	d,I
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<2,500	d,I	<2,000	d,n

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C4-252 Isomers, C4-alkylated benzopyrene/ perylenes <sup>3</sup>	C4-252 Isomers, C4-alkylated benzopyrene/ perylenes, remarks	C5-228 Isomers, C5-benzo(a)-anthracene/ chrysenes <sup>3</sup>	C5-228 Isomers, C5-benzo(a)-anthracene/ chrysenes, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	<180,000	--	<110,000	d,I
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<16,000	d,I	<21,000	d,I
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<52,000	d,I	<62,000	d,I
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<1,500	d,I	<600	d,I
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<170,000	d,I	<41,000	d,I
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<180,000	d,I	<52,000	d,I
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<93,000	d,I	<59,000	d,I
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<220,000	d,I	<79,000	d,I
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<150,000	d,I	<48,000	d,I
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<13,000	d,I	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	na	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Spike, percent recovery				8022R03245	na	--	na	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	na	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	na	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C5-252 Isomers, C5-alkylated benzopyrene/ perylenes <sup>3</sup>	C5-252 Isomers, C5-alkylated benzopyrene/ perylenes, remarks	Coronene	Coronene, remarks
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<30,000	d,I	E20,000	d,I
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	<30,000	d,I	E25,000	d,I
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	<19,000	d,n	E7,300	d,n,I
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	<20,000	d,I	E13,000	d,I
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<15,000	d,I	12,000	--
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	<110,000	d,I	94,000	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	<6,000	d,I	2,200	--
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	<4,500	d,I	1,400	--
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<12,000	d,I	9,700	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	<7,500	d,I	5,000	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	<6,000	d,I	E3,900	d,n
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	<5,000	d,n	E2,000	d,n
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<1,200,000	d,I	1,000,000	--
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	<250,000	d,I	170,000	--
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	<11,000	d,I	3,700	--
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	<47,000	d,I	52,000	--
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<15,000	d,I	15,000	--
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<12,000	d,I	12,000	--
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	<26,000	d,I	24,000	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	<4,500	d,I	3,200	--
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	<4,200	d,I	3,400	--
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	<5,500	d,I	E4,400	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<550,000	d,I	200,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	<190,000	d,I	72,000	--
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	<62,000	d,I	28,000	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<48,000	d,I	39,000	--
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<26,000	d,I	18,000	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<260,000	d,I	210,000	--
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	<150,000	d,I	110,000	--
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	<3,000	d,I	E1,500	d,n

Footnote at end of table.



**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	C5-252 Isomers, C5-alkylated benzopyrene/ perylenes <sup>3</sup>	C5-252 Isomers, C5-alkylated benzopyrene/ perylenes, remarks	Coronene	Coronene, remarks
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	<500,000	d,I	490,000	--
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<16,000	d,I	E9,200	d,n
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	<90,000	d,I	72,000	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	<2,000	d,I	E470	d,n
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<680,000	d,I	240,000	--
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	<870,000	d,I	320,000	--
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<540,000	d,I	180,000	--
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<740,000	d,I	260,000	--
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	<750,000	d,I	290,000	--
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	<12,000	d,I	<8,500	d,n
Quality-control samples								
Spike, percent recovery				8022R03238	na	--	nim	--
Blank				8022R03238	<5.0	--	<5.0	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--	--
Spike, percent recovery				8022R03245	na	--	nim	--
Spike, percent recovery				8022R03245	na	--	nim	--
Spike, percent recovery				8022R03245	na	--	nim	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
Blank				8022R03245	<5.0	--	<5.0	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--	--
Spike, percent recovery				8022R03276	na	--	nim	--
Blank				8022R03276	<5.0	--	<5.0	--
Spike, percent recovery				8022R03281	na	--	nim	--
Blank				8022R03281	<5.0	--	<5.0	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Surrogates			Sample mass (grams)
					Nitro-benzene-d5, percent recovery	2-Fluoro-biphenyl, percent recovery	Terphenyl-d14, percent recovery	
Test plots								
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E75	E80	E93	0.57
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	E72	E84	E94	.49
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	E59	E86	E98	.26
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	E64	E79	E110	.75
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E56	E62	E110	.30
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	E69	E71	E93	.08
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	E48	E64	E64	.24
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	E36	E64	E85	.27
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E75	E84	E100	.77
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	E66	E80	E110	.68
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	E78	E94	E100	.79
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	E77	E84	E99	1.0
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E62	E62	E60	.10
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	E74	E76	E100	.20
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	E25	E26	E36	.10
Parking lots in use								
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	E65	E76	E98	.38
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E65	E80	E110	.38
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E66	E84	E100	.45
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	E70	E85	E120	.67
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	E29	E72	E110	1.1
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	E54	E69	E100	1.5
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	E61	E73	E77	.64
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	E65	E83	E120	.15
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	E71	E81	E120	.56
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	E75	E83	E110	.20
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E110	E88	E100	.77
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E68	E82	E100	.67
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E94	E90	E120	.49
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	E84	E99	E120	.69
ZLK	Unsealed asphalt	9/30/2003	Washoff	8022R03276	E59	E79	E95	1.4

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Surrogates			Sample mass (grams)
					Nitro-benzene-d5, percent recovery	2-Fluoro-biphenyl, percent recovery	Terphenyl-d14, percent recovery	
Parking lots in use—Continued								
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	E77	E84	E110	0.10
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E98	E77	E100	.20
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	E72	E74	E99	.10
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	E58	E65	E87	.50
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E70	E85	E120	.30
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	E70	E84	E130	.20
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E82	E83	E110	.20
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E62	E81	E120	.20
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	E76	E91	E120	.20
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	E80	E84	E110	.30
Quality-control samples								
Spike, percent recovery				8022R03238	69	69	82	25
Blank				8022R03238	88	110	130	25
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	37	39	50	1.0
Spike, percent recovery				8022R03245	64	66	74	25
Spike, percent recovery				8022R03245	60	71	70	25
Spike, percent recovery				8022R03245	76	68	81	25
Blank				8022R03245	49	68	79	25
Blank				8022R03245	E46	E68	E77	25
Blank				8022R03245	71	69	82	25
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	53	56	78	1.0
Spike, percent recovery				8022R03276	50	51	76	25
Blank				8022R03276	45	50	88	25
Spike, percent recovery				8022R03281	50	51	76	25
Blank				8022R03281	52	67	90	25
Footnote at end of table.								

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Reporting level	Final volume (equivalents) (milliliters)	Additional dilutions
<b>Test plots</b>							
MON	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	9,000	10	10 X
TAR	Coal-tar-emulsion sealed	8/21/2003	Washoff	8022R03238	10,300	10	100 X
PAV	Asphalt-emulsion sealed	8/21/2003	Washoff	8022R03238	19,300	10	--
ASP	Unsealed asphalt	8/21/2003	Washoff	8022R03238	6,700	10	--
MON	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	8,500	10	--
TAR	Coal-tar-emulsion sealed	9/9/2003	Washoff	8022R03245	25,000	10	--
PAV	Asphalt-emulsion sealed	9/9/2003	Washoff	8022R03245	1,000	1	--
ASP	Unsealed asphalt	9/9/2003	Washoff	8022R03245	1,000	1	--
MON	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	3,500	10	--
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	Washoff	8022R03276	3,500	10	--
PAV	Asphalt-emulsion sealed	9/26/2003	Washoff	8022R03276	4,000	10	--
ASP	Unsealed asphalt	9/26/2003	Washoff	8022R03276	5,000	10	--
MON	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	25,000	10	10 X
TAR	Coal-tar-emulsion sealed	8/12/2003	Scraping	8022R03245	12,500	10	10 X
PAV	Asphalt-emulsion sealed	8/12/2003	Scraping	8022R03245	2,500	1	--
<b>Parking lots in use</b>							
TCQ	Coal-tar-emulsion sealed	9/7/2003	Washoff	8022R03245	6,750	10	10 X
SSE	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	6,750	10	--
SSE duplicate	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	5,500	10	--
WWB	Asphalt-emulsion sealed	9/7/2003	Washoff	8022R03245	4,000	10	--
LAC	Unsealed concrete	9/8/2003	Washoff	8022R03245	2,500	10	--
LOW	Unsealed concrete	9/8/2003	Washoff	8022R03245	2,000	10	--
NWR	Unsealed asphalt	9/8/2003	Washoff	8022R03245	4,500	10	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	17,000	10	10 X
UTN	Coal-tar-emulsion sealed	9/28/2003	Washoff	8022R03281	4,500	10	10 X
SOC	Asphalt-emulsion sealed	9/28/2003	Washoff	8022R03281	12,500	10	--
CNR	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	3,500	10	10 X
OSL	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	4,000	10	--
UNF	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	5,000	10	10 X
UNF duplicate	Coal-tar-emulsion sealed	9/30/2003	Washoff	8022R03276	3,500	10	10 X
ZLK	Asphalt-emulsion sealed	9/30/2003	Washoff	8022R03276	2,000	10	--

Footnote at end of table.

**Table 2.** Particulate-phase concentrations of polycyclic aromatic hydrocarbons in washoff and scrapings samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Sample type	Batch	Reporting level	Final volume (equivalents) (milliliters)	Additional dilutions
Parking lots in use—Continued							
TCQ	Coal-tar-emulsion sealed	9/14/2003	Scraping	8022R03245	25,000	10	10 X
SSE	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	12,500	10	--
WWB	Asphalt-emulsion sealed	9/14/2003	Scraping	8022R03245	25,000	10	--
NWR	Unsealed asphalt	9/14/2003	Scraping	8022R03245	500	1	--
LBJ	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	8,500	10	10 X
UTN	Coal-tar-emulsion sealed	9/28/2003	Scraping	8022R03281	12,500	10	10 X
CNR	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	12,500	10	10 X
OSL	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	12,500	10	10 X
UNF	Coal-tar-emulsion sealed	10/6/2003	Scraping	8022R03281	12,500	10	10 X
ZLK	Unsealed asphalt	10/6/2003	Scraping	8022R03281	8,500	10	--
Quality-control samples							
Spike, percent recovery				8022R03238	--	--	--
Blank				8022R03238	--	--	--
CRM 362, percent recovery; acceptable range in parenthesis				8022R03238	--	--	--
Spike, percent recovery				8022R03245	--	--	--
Spike, percent recovery				8022R03245	--	--	--
Spike, percent recovery				8022R03245	--	--	--
Blank				8022R03245	--	--	--
Blank				8022R03245	--	--	--
Blank				8022R03245	--	--	--
CRM D035, percent recovery; acceptable range in parenthesis				8022R03245	--	--	--
Spike, percent recovery				8022R03276	--	--	--
Blank				8022R03276	--	--	--
Spike, percent recovery				8022R03281	--	--	--
Blank				8022R03281	--	--	--

<sup>1</sup>Unrounded values summed then rounded to two significant figures.

<sup>2</sup>TAR sample for 9/26/2003 washed off with real, not simulated, rainfall.

<sup>3</sup>Constituent with highly variable quality-control data.

**Table 3.** Dissolved-phase concentrations of polycyclic aromatic hydrocarbons in washoff samples from parking lots, Austin, Texas, 2003.

[All concentrations in micrograms per liter rounded to two significant figures.  $\Sigma\text{PAH}_{\text{diss}}$ , total dissolved polycyclic hydrocarbons (for complete definition see text); E, estimated (result less than calculated reporting level); <, less than; --, not analyzed or not reported.]

Site name	Type of surface	Sampling date	Batch number	$\Sigma\text{PAH}_{\text{diss}}^1$	Acenaphthylene	Acenaphthene	Anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)-pyrene
Test plots										
MON	Coal-tar-emulsion sealed	8/12/2003	200322701	21	E0.56	E0.39	E1.4	<1.9	<1.7	<1.3
MON	Coal-tar-emulsion sealed	8/21/2003	200324101	14	E.17	E.36	E1.0	<1.9	<1.7	<1.3
MON	Coal-tar-emulsion sealed	9/26/2003	200327503	6.9	E.03	E.05	E.29	<1.9	<1.7	<1.3
TAR	Coal-tar-emulsion sealed	8/12/2003	200322701	11	E.39	E.31	E1.5	<1.9	<1.7	<1.3
TAR	Coal-tar-emulsion sealed	8/21/2003	200324101	7.3	E.35	<1.8	E.77	<1.9	<1.7	<1.3
TAR <sup>2</sup>	Coal-tar-emulsion sealed	9/26/2003	200327503	3.8	E.14	E.06	E.56	<1.9	<1.7	<1.3
PAV	Asphalt-emulsion sealed	8/12/2003	200322701	1.3	<2.4	<1.8	<2.0	<1.9	<1.7	<1.3
PAV	Asphalt-emulsion sealed	8/21/2003	200324101	1.2	<2.4	<1.8	E.23	<1.9	<1.7	<1.3
PAV	Asphalt-emulsion sealed	9/26/2003	200327503	.64	<2.4	<1.8	E.09	<1.9	<1.7	<1.3
ASP	Unsealed asphalt	8/12/2003	200322701	.16	<2.4	<1.8	<2.0	<1.9	<1.7	<1.3
ASP	Unsealed asphalt	8/21/2003	200324101	.34	<2.4	<1.8	<2.0	<1.9	<1.7	<1.3
ASP	Unsealed asphalt	9/26/2003	200327503	.17	<2.4	<1.8	<2.0	<1.9	<1.7	<1.3
Parking lots in use										
CNR	Coal-tar-emulsion sealed	9/30/2003	200327503	12	E.15	E.04	E.85	<1.9	<1.7	<1.3
LBJ	Coal-tar-emulsion sealed	9/28/2003	200328701	5.4	<2.4	E.03	E.29	E.06	<1.7	<1.3
OSL	Coal-tar-emulsion sealed	9/30/2003	200327503	2.3	E.05	<1.8	E.16	<1.9	<1.7	<1.3
UNF	Coal-tar-emulsion sealed	9/30/2003	200327503	16	<2.4	<1.8	E.79	<1.9	<1.7	<1.3
UTN	Coal-tar-emulsion sealed	9/28/2003	200328701	7.1	<2.4	<1.8	E.53	E.30	<1.7	<1.3
SOC	Asphalt-emulsion sealed	9/28/2003	200328701	5.1	<2.4	<1.8	E.42	E.09	<1.7	<1.3
ZLK	Unsealed asphalt	9/30/2003	200327503	.24	<2.4	<1.8	<2.0	<1.9	<1.7	<1.3
Quality-control samples										
Equipment blank		9/26/2003	200327503	.06	<2.4	<1.8	<2.0	<1.9	<1.7	<1.3
Spike, percent recovery			200322701	--	90	94	100	100	100	100
Blank			200322701	0	<1.8	<1.9	<2.0	<2.0	<1.4	<1.0
Spike, percent recovery			200324101	--	94	98	98	110	110	98
Blank			200324101	0	<1.8	<1.9	<2.0	<2.0	<1.4	<1.0
Spike, percent recovery			200327503	--	85	91	89	96	97	92
Blank			200327503	.02	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Spike, percent recovery			200328701	--	51	50	48	54	54	49
Blank			200328701	.009	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0

Footnote at end of table.

**Table 3.** Dissolved-phase concentrations of polycyclic aromatic hydrocarbons in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Batch number	Chrysene	Fluoranthene	9H-Fluorene	Indenopyrene	Nitrobenzene	Phenanthrene	Pyrene
Test plots										
MON	Coal-tar-emulsion sealed	8/12/2003	200322701	<2.7	4.1	E.94	<3.0	<2.0	11	E2.1
MON	Coal-tar-emulsion sealed	8/21/2003	200324101	<2.7	2.6	E.61	<3.0	<2.0	7.3	E1.1
MON	Coal-tar-emulsion sealed	9/26/2003	200327503	E.25	2.9	E.13	<3.0	<2.0	E1.9	E1.3
TAR	Coal-tar-emulsion sealed	8/12/2003	200322701	<2.7	E1.0	E.78	<3.0	<2.0	5.5	E.67
TAR	Coal-tar-emulsion sealed	8/21/2003	200324101	<2.7	E1.2	E.37	<3.0	<2.0	2.8	E.49
TAR	Coal-tar-emulsion sealed	9/26/2003	200327503	E.05	E1.2	E.14	<3.0	<2.0	E1.0	E.56
PAV	Asphalt-emulsion sealed	8/12/2003	200322701	<2.7	E.31	<2.0	<3.0	<2.0	E.87	E.12
PAV	Asphalt-emulsion sealed	8/21/2003	200324101	<2.7	E.30	<2.0	<3.0	<2.0	E.52	E.13
PAV	Asphalt-emulsion sealed	9/26/2003	200327503	<2.7	E.18	<2.0	<3.0	<2.0	E.18	E.08
ASP	Unsealed asphalt	8/12/2003	200322701	<2.7	<2.4	<2.0	<3.0	<2.0	E.08	<2.2
ASP	Unsealed asphalt	8/21/2003	200324101	<2.7	E.05	<2.0	<3.0	<2.0	E.14	E.03
ASP	Unsealed asphalt	9/26/2003	200327503	<2.7	E.05	<2.0	<3.0	<2.0	E.05	E.02
Parking lots in use										
CNR	Coal-tar-emulsion sealed	9/30/2003	200327503	<2.7	4.2	E.24	<3.0	<2.0	4.6	2.2
LBJ	Coal-tar-emulsion sealed	9/28/2003	200328701	E.12	E2.0	E.09	<3.0	<2.0	E1.8	E.92
OSL	Coal-tar-emulsion sealed	9/30/2003	200327503	E.04	E1.1	E.04	<3.0	<2.0	E.47	E.35
UNF	Coal-tar-emulsion sealed	9/30/2003	200327503	<2.7	8.7	E.10	<3.0	<2.0	3.6	2.3
UTN	Coal-tar-emulsion sealed	9/28/2003	200328701	E.41	2.9	E.01	<3.0	<2.0	E1.1	E2.1
SOC	Asphalt-emulsion sealed	9/28/2003	200328701	E.09	E1.7	<2.0	<3.0	<2.0	E1.8	E.97
ZLK	Unsealed asphalt	9/30/2003	200327503	<2.7	E.09	<2.0	<3.0	<2.0	E.05	E.04
Quality-control samples										
Equipment blank		9/26/2003	200327503	<2.7	E 0.03	<2.0	<3.0	<2.0	E 0.02	E 0.01
Spike, percent recovery			200322701	110	99	100	72	99	100	99
Blank			200322701	<3.0	<2.0	<2.0	<3.0	<1.4	<2.3	<2.0
Spike, percent recovery			200324101	100	97	100	61	99	100	97
Blank			200324101	<3.0	<2.0	<2.0	<3.0	<1.4	<2.3	<2.0
Spike, percent recovery			200327503	96	92	94	87	92	95	91
Blank			200327503	<3.0	E.003	E.004	<3.0	<2.0	E.007	E.002
Spike, percent recovery			200328701	50	50	52	35	59	49	49
Blank			200328701	<3.0	<2.0	<2.0	<3.0	<2.0	E.003	<2.0

Footnote at end of table.

**Table 3.** Dissolved-phase concentrations of polycyclic aromatic hydrocarbons in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Batch number	Benzo-( <i>g,h,i</i> )-perylene	Benz( <i>a</i> )-anthracene	Dibenzo-( <i>a,h</i> )-anthracene	Naphthalene	Surrogates		Sample volume (milliliters)
								Terphenyl-d14 (percent recovery)	2-Fluorobiphenyl (percent recovery)	
Test plots										
MON	Coal-tar-emulsion sealed	8/12/2003	200322701	<2.8	<2.4	<3.4	E1.1	26	85	927
MON	Coal-tar-emulsion sealed	8/21/2003	200324101	<2.8	<2.4	<3.4	E1.2	36	67	848
MON	Coal-tar-emulsion sealed	9/26/2003	200327503	<2.8	<2.4	<3.4	E.10	36	82	832
TAR	Coal-tar-emulsion sealed	8/12/2003	200322701	<2.8	<2.4	<3.4	E1.1	32	90	820
TAR	Coal-tar-emulsion sealed	8/21/2003	200324101	<2.8	<2.4	<3.4	E1.3	38	80	849
TAR	Coal-tar-emulsion sealed	9/26/2003	200327503	<2.8	<2.4	<3.4	E.13	20	83	846
PAV	Asphalt-emulsion sealed	8/12/2003	200322701	<2.8	<2.4	<3.4	<1.8	43	100	863
PAV	Asphalt-emulsion sealed	8/21/2003	200324101	<2.8	<2.4	<3.4	<1.8	38	82	865
PAV	Asphalt-emulsion sealed	9/26/2003	200327503	<2.8	<2.4	<3.4	E.12	28	82	871
ASP	Unsealed asphalt	8/12/2003	200322701	<2.8	<2.4	<3.4	E.08	13	83	840
ASP	Unsealed asphalt	8/21/2003	200324101	<2.8	<2.4	<3.4	E.11	17	76	858
ASP	Unsealed asphalt	9/26/2003	200327503	<2.8	<2.4	<3.4	E.05	18	78	887
Parking lots in use										
CNR	Coal-tar-emulsion sealed	9/30/2003	200327503	<2.8	<2.4	<3.4	E.08	20	82	816
LBJ	Coal-tar-emulsion sealed	9/28/2003	200328701	<2.8	<2.4	<3.4	E.08	34	76	860
OSL	Coal-tar-emulsion sealed	9/30/2003	200327503	<2.8	<2.4	<3.4	E.09	25	87	820
UNF	Coal-tar-emulsion sealed	9/30/2003	200327503	<2.8	<2.4	<3.4	E.17	32	75	841
UTN	Coal-tar-emulsion sealed	9/28/2003	200328701	<2.8	<2.4	<3.4	E.10	69	71	820
SOC	Asphalt-emulsion sealed	9/28/2003	200328701	<2.8	<2.4	<3.4	E.07	46	70	855
ZLK	Unsealed asphalt	9/30/2003	200327503	<2.8	<2.4	<3.4	E.06	24	85	830
Quality-control samples										
Equipment blank		9/26/2003	200327503	<2.8	<2.4	<3.4	<1.8	39	89	840
Spike, percent recovery			200322701	76	100	82	73	57	92	1,000
Blank			200322701	<1.6	<2.0	<1.1	<1.6	54	94	1,000
Spike, percent recovery			200324101	59	100	65	87	68	89	1,000
Blank			200324101	<1.6	<2.0	<1.1	<1.6	62	89	1,000
Spike, percent recovery			200327503	86	90	87	81	43	86	1,000
Blank			200327503	<3.0	<2.0	<3.0	E.007	40	90	1,000
Spike, percent recovery			200328701	33	49	36	48	42	54	1,000
Blank			200328701	<3.0	<2.0	<3.0	E.006	60	88	1,000

<sup>1</sup> Unrounded values summed then rounded to two significant figures.<sup>2</sup> TAR sample for 9/26/2003 washed off with real, not simulated, rainfall.



**Table 4.** Particulate-phase concentrations of major and trace elements in washoff samples from parking lots, Austin, Texas, 2003.

[All concentrations in milligrams per kilogram. --, not analyzed or not reported; Isa, insufficient sediment mass for analysis; <, less than. All values rounded to three significant figures.]

Site name	Type of surface	Sampling date	Batch number	Aluminum	Calcium	Iron	Potassium	Magnesium	Sodium	Phosphorus	Titanium
<b>Test plots</b>											
MON	Coal-tar emulsion-sealed	8/21/2003	4790	45,000	156,000	20,200	7,320	5,070	990	417	2,230
TAR	Coal-tar emulsion-sealed	8/21/2003	4790	16,400	23,000	8,720	3,600	8,760	1,310	1,740	1,130
PAV	Asphalt-emulsion-sealed	8/21/2003	4790	20,000	110,000	12,500	6,710	51,100	2,510	1,520	1,700
ASP	Unsealed asphalt	8/21/2003	4790	14,800	29,200	7,840	3,470	10,500	1,180	1,830	1,080
MON	Coal-tar emulsion-sealed	9/9/2003	4788	23,900	39,500	9,400	4,430	13,700	1,450	1,400	1,500
TAR	Coal-tar emulsion-sealed	9/9/2003	4788	22,900	26,700	9,300	3,960	8,300	1,360	1,400	1,500
PAV	Asphalt-emulsion-sealed	9/9/2003	4791	80,300	5,870	11,500	3,980	2,930	727	1,170	6,010
ASP	Unsealed asphalt	9/9/2003	--	Isa	Isa	Isa	Isa	Isa	Isa	Isa	Isa
MON	Coal-tar emulsion-sealed	9/26/2003	4811	79,900	21,800	12,000	4,520	9,440	907	1,300	5,100
TAR <sup>1</sup>	Coal-tar emulsion-sealed	9/26/2003	4811	122,000	5,360	13,000	3,840	2,790	532	1,200	10,000
PAV	Asphalt-emulsion-sealed	9/26/2003	4811	19,700	50,600	4,300	4,570	23,800	1,250	750	1,100
ASP	Unsealed asphalt	9/26/2003	4811	12,600	102,000	5,200	6,340	42,200	1,930	620	680
<b>Parking lots in use</b>											
TCQ	Coal-tar emulsion-sealed	9/7/2003	4791	24,500	73,300	12,600	6,710	10,800	2,660	840	2,500
SSE	Asphalt-emulsion-sealed	9/7/2003	4791	26,800	13,400	6,040	2,330	4,030	610	358	2,590
WWB	Asphalt-emulsion-sealed	9/7/2003	4791	23,600	11,600	4,940	1,700	2,570	325	183	2,180
WWB replicate	Asphalt-emulsion-sealed	9/7/2003	4791	21,700	9,130	4,210	1,950	1,890	417	148	1,880
WWB replicate	Asphalt-emulsion-sealed	9/7/2003	4791	23,400	11,500	4,890	1,670	2,470	312	175	2,150
LAC	Unsealed concrete	9/8/2003	4791	18,000	147,000	14,200	6,080	15,300	3,500	709	1,890
LOW	Unsealed concrete	9/8/2003	4791	18,200	123,000	14,200	5,670	10,900	2,080	1,010	2,350
NWR	Unsealed asphalt	9/8/2003	4791	11,000	172,000	7,470	3,310	18,800	1,320	809	1,140
LBJ	Coal-tar emulsion-sealed	9/28/2003	4811	25,000	66,000	13,000	4,400	7,980	1,390	970	2,400
UTN	Coal-tar emulsion-sealed	9/28/2003	4811	27,000	86,300	12,000	4,560	7,770	1,510	990	2,500
SOC	Asphalt-emulsion-sealed	9/28/2003	4811	35,700	41,600	12,000	4,860	6,140	1,480	990	3,100
SOC replicate	Asphalt-emulsion-sealed	9/28/2003	4811	35,500	41,000	12,000	4,920	5,910	1,400	980	2,800
SOC replicate	Asphalt-emulsion-sealed	9/28/2003	4811	34,100	39,800	12,000	4,740	5,890	1,440	930	3,000
CNR	Coal-tar emulsion-sealed	9/30/2003	4811	27,000	32,800	9,300	3,710	6,950	1,020	1,200	2,400
OSL	Coal-tar emulsion-sealed	9/30/2003	4811	8,670	11,400	2,800	1,480	1,620	585	210	810
UNF	Coal-tar emulsion-sealed	9/30/2003	4811	23,400	54,600	11,000	4,100	5,540	1,480	1,400	2,000
ZLK	Unsealed asphalt	9/30/2003	4811	15,600	187,000	8,000	6,160	16,600	2,620	660	1,100
ZLK duplicate	Unsealed asphalt	9/30/2003	4811	15,200	192,000	8,200	6,010	16,200	2,690	600	1,100
<b>Quality-control samples</b>											
MAG-1 found			4788, 4790, 4791	88,200	10,200	48,700	30,800	19,300	30,200	777	3,830
MAG-1 true <sup>2</sup>			--	86,700	9,790	47,600	29,500	18,100	28,400	711	4,500
Relative percent difference			4788, 4790, 4791	1.8	4.1	2.3	4.3	6.5	6.1	8.9	16.1
NIST 2704 found			4788, 4790, 4791	62,200	25,800	40,700	20,200	13,100	5,960	1,060	2,830
NIST 2704 true <sup>2</sup>			--	61,100	26,000	41,100	20,000	12,000	5,470	1,000	4,580
Relative percent difference			4788, 4790, 4791	1.8	.8	1.0	1.0	8.8	8.6	5.8	47.2
SCO-1 found			4788, 4790, 4791	72,200	19,100	35,100	22,600	17,600	7,260	975	3,060
SCO-1 true <sup>2</sup>			--	72,400	18,700	35,900	23,000	16,400	6,670	899	3,760
Relative percent difference			4788, 4790, 4791	.2	2.1	2.3	1.8	7.1	8.5	8.1	20.5

Footnote at end of table.

**Table 4.** Particulate-phase concentrations of major and trace elements in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Batch number	Aluminum	Calcium	Iron	Potassium	Magnesium	Sodium	Phosphorus	Titanium
Quality-control samples—Continued											
GSD-8 found			4788, 4790, 4791	41,200	1,510	15,200	24,400	1,620	3,370	126	3,220
GSD-8 true <sup>2</sup>			--	40,800	1,790	15,400	23,500	1,510	3,490	130	3,660
Relative percent difference			4788, 4790, 4791	1.0	17.0	1.2	3.8	7.0	3.5	3.1	12.8
MAG-1 found			4788, 4790, 4791	86,200	9,760	47,000	30,100	19,400	30,300	768	3,610
MAG-1 true <sup>2</sup>			--	86,700	9,790	47,600	29,500	18,100	28,400	711	4,500
Relative percent difference			4788, 4790, 4791	.5	.3	1.3	2.0	7.0	6.5	7.7	21.9
NIST 2704 found			4788, 4790, 4791	61,600	25,400	39,900	19,900	12,800	5,780	1,050	2,820
NIST 2704 true <sup>2</sup>			--	61,100	26,000	41,100	20,000	12,000	5,470	1,000	4,580
Relative percent difference			4788, 4790, 4791	.8	2.3	3.0	.5	6.5	5.5	4.9	47.6
SCO-1 found			4788, 4790, 4791	68,700	18,100	33,600	21,700	16,400	6,690	933	2,890
SCO-1 true <sup>2</sup>			--	72,400	18,700	35,900	23,000	16,400	6,670	899	3,760
Relative percent difference			4788, 4790, 4791	5.2	3.3	6.6	5.8	0	.3	3.7	26.2
GSD-8 found			4788, 4790, 4791	40,200	1,480	14,600	23,200	1,420	3,020	116	3,040
GSD-8 true <sup>2</sup>			--	40,800	1,790	15,400	23,500	1,510	3,490	130	3,660
Relative percent difference			4788, 4790, 4791	1.5	19.0	5.2	1.3	6.1	14.4	11.4	18.5
MAG-1 found			4811	83,200	9,650	48,000	30,300	19,000	29,000	730	4,300
MAG-1 true <sup>2</sup>			--	86,700	9,790	47,600	29,500	18,100	28,400	711	4,500
Relative percent difference			4811	4.1	1.4	.8	2.7	4.9	2.1	2.6	4.5
NIST 2704 found			4811	62,700	26,100	41,000	20,000	12,700	5,820	1,000	3,200
NIST 2704 true <sup>2</sup>			--	61,100	26,000	41,100	20,000	12,000	5,470	1,000	4,580
Relative percent difference			4811	2.6	.4	.2	0	5.7	6.2	0	35.5
SCO-1 found			4811	71,900	19,000	36,000	22,200	17,000	6,870	930	3,800
SCO-1 true <sup>2</sup>			--	72,400	18,700	35,900	23,000	16,400	6,670	899	3,760
Relative percent difference			4811	.7	1.6	.3	3.5	3.6	3.0	3.4	1.1
GSD-8 found			4811	43,200	1,500	16,000	24,900	1,480	3,220	130	4,000
GSD-8 true <sup>2</sup>			--	40,800	1,790	15,400	23,500	1,510	3,490	130	3,660
Relative percent difference			4811	5.7	17.6	4.0	5.8	2.0	8.0	0	8.9
MAG-1 found			4811	83,300	9,510	47,000	29,900	18,900	28,600	740	4,200
MAG-1 true <sup>2</sup>			--	86,700	9,790	47,600	29,500	18,100	28,400	711	4,500
Relative percent difference			4811	4.0	2.9	1.3	1.3	4.4	.7	4.0	6.9
NIST 2704 found			4811	61,800	25,400	40,000	19,800	12,400	5,680	1,000	3,100
NIST 2704 true <sup>2</sup>			--	61,100	26,000	41,100	20,000	12,000	5,470	1,000	4,580
Relative percent difference			4811	1.2	2.3	2.7	1.0	3.3	3.8	0	38.5
SCO-1 found			4811	71,500	18,400	35,000	22,400	17,500	7,080	950	3,700
SCO-1 true <sup>2</sup>			--	72,400	18,700	35,900	23,000	16,400	6,670	899	3,760
Relative percent difference			4811	1.2	1.6	2.5	2.6	6.5	6.0	5.5	1.6
GSD-8 found			4811	40,100	1,420	14,000	23,400	1,460	3,190	130	3,700
GSD-8 true <sup>2</sup>			--	40,800	1,790	15,400	23,500	1,510	3,490	130	3,660
Relative percent difference			4811	1.7	23.1	9.4	.4	3.4	9.0	0	1.1

Footnote at end of table.

**Table 4.** Particulate-phase concentrations of major and trace elements in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Batch number	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury	
Test plots												
MON	Coal-tar emulsion-sealed	8/21/2003	4790	6.5	187	1.4	3.5	6.2	91.6	34.8	0.08	
TAR	Coal-tar emulsion-sealed	8/21/2003	4790	3.4	154	.5	5.2	2.6	46.0	61.4	Isa	
PAV	Asphalt-emulsion-sealed	8/21/2003	4790	4.7	255	.6	2.0	4.4	79.1	147	Isa	
ASP	Unsealed asphalt	8/21/2003	4790	3.3	145	.6	1.2	2.8	36.4	46.5	.04	
MON	Coal-tar emulsion-sealed	9/9/2003	4788	4.3	157	.6	.9	3.1	53.2	52.2	Isa	
TAR	Coal-tar emulsion-sealed	9/9/2003	4788	4.4	195	.6	.6	3.0	49.6	49.0	Isa	
PAV	Asphalt-emulsion-sealed	9/9/2003	4791	3.2	189	.8	.2	2.5	73.9	28.5	.08	
ASP	Unsealed asphalt	9/9/2003	--	Isa	Isa	Isa	Isa	Isa	Isa	Isa	Isa	
MON	Coal-tar emulsion-sealed	9/26/2003	4811	3.4	176	.9	1.5	4.2	121	57.9	Isa	
TAR	Coal-tar emulsion-sealed	9/26/2003	4811	3.0	164	1.2	.2	2.7	128	25.3	.10	
PAV	Asphalt-emulsion-sealed	9/26/2003	4811	1.0	117	.5	.6	2.0	36.3	29.7	.13	
ASP	Unsealed asphalt	9/26/2003	4811	2.0	162	.4	.9	2.0	85.3	33.5	Isa	
Parking lots in use												
TCQ	Coal-tar emulsion-sealed	9/7/2003	4791	5.4	264	.7	1.9	4.1	92.8	69.0	.08	
SSE	Asphalt-emulsion-sealed	9/7/2003	4791	2.1	131	.4	.5	2.8	51.1	23.8	.05	
WWB	Asphalt-emulsion-sealed	9/7/2003	4791	2.0	160	.4	.4	1.5	31.8	34.6	.02	
WWB replicate	Asphalt-emulsion-sealed	9/7/2003	4791	1.5	127	.3	.4	1.0	26.6	19.1	--	
WWB replicate	Asphalt-emulsion-sealed	9/7/2003	4791	1.6	160	.3	.4	1.5	31.4	33.8	--	
LAC	Unsealed concrete	9/8/2003	4791	3.2	536	.7	.8	6.0	164	124	.24	
LOW	Unsealed concrete	9/8/2003	4791	5.1	246	.6	.7	11.9	385	78.8	.05	
NWR	Unsealed asphalt	9/8/2003	4791	2.9	152	.3	.6	2.8	38.4	48.3	.03	
LBJ	Coal-tar emulsion-sealed	9/28/2003	4811	4.0	439	.7	2.1	6.0	90.5	143	.18	
UTN	Coal-tar emulsion-sealed	9/28/2003	4811	3.7	257	.6	1.9	5.3	78.1	71.9	.26	
SOC	Asphalt-emulsion-sealed	9/28/2003	4811	3.0	268	.7	.9	3.7	68.8	76.2	.09	
SOC replicate	Asphalt-emulsion-sealed	9/28/2003	4811	2.0	274	.7	.9	3.8	62.7	79.9	--	
SOC replicate	Asphalt-emulsion-sealed	9/28/2003	4811	2.0	269	.7	.9	3.7	65.9	74.0	--	
CNR	Coal-tar emulsion-sealed	9/30/2003	4811	3.4	199	.5	1.8	4.2	45.1	46.0	.09	
OSL	Coal-tar emulsion-sealed	9/30/2003	4811	1.0	59.8	.2	.3	1.1	40.4	24.5	.05	
UNF	Coal-tar emulsion-sealed	9/30/2003	4811	4.6	174	.5	1.2	9.1	108	65.6	.07	
ZLK	Unsealed asphalt	9/30/2003	4811	4.6	184	.6	.4	2.7	24.8	26.9	.05	
ZLK replicate	Unsealed asphalt	9/30/2003	4811	29.0	178	.5	.4	2.7	77.9	29.8	.04	
Quality-control samples												
MAG-1 found			4788, 4790, 4791	6.2	498	3.2	.2	21.8	88.5	29.8	--	
MAG-1 true <sup>2</sup>			--	9.2	479	3.2	.2	20.4	97.0	30.0	--	
Relative percent difference			4788, 4790, 4791	38.2	3.9	1.2	2.4	6.6	9.2	.7	--	
NIST 2704 found			4788, 4790, 4791	19.3	422	2.0	3.7	13.6	119	98.0	--	
NIST 2704 true <sup>2</sup>			--	23.4	414	--	3.4	14.0	135	98.6	--	
Relative percent difference			4788, 4790, 4791	19.2	1.9	--	6.5	2.9	12.6	.6	--	
SCO-1 found			4788, 4790, 4791	9.1	586	1.9	.2	10.9	58.4	28.6	--	
SCO-1 true <sup>2</sup>			--	12.4	570	1.8	.1	10.5	68.0	28.7	--	
Relative percent difference			4788, 4790, 4791	31.0	2.8	3.2	14.6	3.7	15.2	.3	--	
Footnote at end of table.												

**Table 4.** Particulate-phase concentrations of major and trace elements in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Batch number	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Mercury
Quality-control samples—Continued											
GSD-8 found			4788, 4790, 4791	<0.1	452	1.9	0.1	3.3	6.3	5.1	--
GSD-8 true <sup>2</sup>			--	2.4	480	2.0	.1	3.6	7.6	4.1	--
Relative percent difference			4788, 4790, 4791	--	6.0	4.6	45.5	9.6	19.2	22.3	--
MAG-1 found			4788, 4790, 4791	10.4	485	3.1	.2	21.3	86.8	29.5	--
MAG-1 true <sup>2</sup>			--	9.2	479	3.2	.2	20.4	97.0	30.0	--
Relative percent difference			4788, 4790, 4791	12.2	1.2	3.5	3.5	4.3	11.1	1.7	--
NIST 2704 found			4788, 4790, 4791	23.3	413	1.9	3.6	13.4	118	96.3	--
NIST 2704 true <sup>2</sup>			--	23.4	414	--	3.4	14.0	135	98.6	--
Relative percent difference			4788, 4790, 4791	.4	.2	--	4.0	4.4	13.4	2.4	--
SCO-1 found			4788, 4790, 4791	12.4	572	1.8	.2	10.5	54.8	27.0	--
SCO-1 true <sup>2</sup>			--	12.4	570	1.8	.1	10.5	68.0	28.7	--
Relative percent difference			4788, 4790, 4791	0	.4	5.0	6.9	0	21.5	6.1	--
GSD-8 found			4788, 4790, 4791	2.5	445	1.8	0	3.1	6.0	5.0	--
GSD-8 true <sup>2</sup>			--	2.4	480	2.0	.1	3.6	7.6	4.1	--
Relative percent difference			4788, 4790, 4791	4.5	7.6	7.8	84.2	14.9	24.0	20.6	--
MAG-1 found			4811	9.2	498	3.2	.2	22.0	110	29.0	--
MAG-1 true <sup>2</sup>			--	9.2	479	3.2	.2	20.4	97.0	30.0	--
Relative percent difference			4811	0	3.9	0	8.5	7.5	12.6	3.4	--
NIST 2704 found			4811	22.0	424	2.0	3.5	13.8	142	100	--
NIST 2704 true <sup>2</sup>			--	23.4	414	--	3.4	14.0	135	98.6	--
Relative percent difference			4811	6.2	2.4	--	1.4	1.4	5.1	1.4	--
SCO-1 found			4811	12.0	588	1.9	.2	11.1	72.8	27.8	--
SCO-1 true <sup>2</sup>			--	12.4	570	1.8	.1	10.5	68.0	28.7	--
Relative percent difference			4811	3.3	3.1	3.2	6.9	5.6	6.8	3.2	--
GSD-8 found			4811	2.0	451	2.0	0	3.4	6.1	5.0	--
GSD-8 true <sup>2</sup>			--	2.4	480	2.0	.1	3.6	7.6	4.1	--
Relative percent difference			4811	18.2	6.2	0	91.9	5.7	21.9	19.8	--
MAG-1 found			4811	8.9	495	3.2	.2	22.0	112	29.1	--
MAG-1 true <sup>2</sup>			--	9.2	479	3.2	.2	20.4	97.0	30.0	--
Relative percent difference			4811	3.3	3.3	0	8.5	7.5	14.4	3.0	--
NIST 2704 found			4811	21.0	412	2.0	3.4	13.6	139	98.6	--
NIST 2704 true <sup>2</sup>			--	23.4	414	--	3.4	14.0	135	98.6	--
Relative percent difference			4811	10.8	.5	--	1.5	2.9	2.9	0	--
SCO-1 found			4811	12.0	571	2.0	.2	11.0	71.6	28.3	--
SCO-1 true <sup>2</sup>			--	12.4	570	1.8	.1	10.5	68.0	28.7	--
Relative percent difference			4811	3.3	.2	8.3	6.9	4.7	5.2	1.4	--
GSD-8 found			4811	3.0	420	2.0	.1	3.3	4.9	5.0	--
GSD-8 true <sup>2</sup>			--	2.4	480	2.0	.1	3.6	7.6	4.1	--
Relative percent difference			4811	22.2	13.3	0	47.3	8.7	43.2	19.8	--

Footnote at end of table.

**Table 4.** Particulate-phase concentrations of major and trace elements in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Batch number	Lithium	Manganese	Nickel	Lead	Scandium	Strontium	Vanadium	Zinc
Test plots											
MON	Coal-tar emulsion-sealed	8/21/2003	4790	30.5	238	26.7	85.6	7.4	200	64.9	214
TAR	Coal-tar emulsion-sealed	8/21/2003	4790	8.0	88.9	21.1	89.8	2.8	60.2	25.0	218
PAV	Asphalt-emulsion-sealed	8/21/2003	4790	10.0	221	32.5	220	3.2	171	32.8	625
ASP	Unsealed asphalt	8/21/2003	4790	7.6	104	15.6	98.9	2.7	54.8	23.9	349
MON	Coal-tar emulsion-sealed	9/9/2003	4788	12.5	137	13.0	114	3.3	60.7	32.9	356
TAR	Coal-tar emulsion-sealed	9/9/2003	4788	13.4	127	13.9	82.8	3.5	67.5	34.2	309
PAV	Asphalt-emulsion-sealed	9/9/2003	4791	33.9	52.9	16.1	44.7	11.8	65.7	92.7	96.3
ASP	Unsealed asphalt	9/9/2003	--	Isa	Isa	Isa	Isa	Isa	Isa	Isa	Isa
MON	Coal-tar emulsion-sealed	9/26/2003	4811	33.0	112	21.1	228	8.8	74.9	84.2	653
TAR	Coal-tar emulsion-sealed	9/26/2003	4811	50.8	40.2	17.5	96.9	14.5	82.3	140	313
PAV	Asphalt-emulsion-sealed	9/26/2003	4811	7.4	111	10.9	78.3	2.2	47.9	23.5	237
ASP	Unsealed asphalt	9/26/2003	4811	4.4	111	8.8	246	1.7	71.0	18.7	1,880
Parking lots in use											
TCQ	Coal-tar emulsion-sealed	9/7/2003	4791	13.7	206	20.9	268	4.0	99.2	35.0	1,200
SSE	Asphalt-emulsion-sealed	9/7/2003	4791	14.1	64.9	15.7	119	3.5	39.7	53.8	477
WWB	Asphalt-emulsion-sealed	9/7/2003	4791	12.0	36.8	12.6	35.4	3.0	29.5	39.4	306
WWB replicate	Asphalt-emulsion-sealed	9/7/2003	4791	11.1	28.9	10.6	27.1	2.7	27.6	36.4	241
WWB replicate	Asphalt-emulsion-sealed	9/7/2003	4791	11.6	37.0	12.5	34.8	3.0	29.5	38.9	302
LAC	Unsealed concrete	9/8/2003	4791	8.7	252	55.3	321	2.8	272	27.5	1,420
LOW	Unsealed concrete	9/8/2003	4791	11.3	400	35.1	577	3.3	143	35.2	1,770
NWR	Unsealed asphalt	9/8/2003	4791	6.9	151	26.4	75.9	2.1	86.8	49.3	1,070
LBJ	Coal-tar emulsion-sealed	9/28/2003	4811	12.4	188	22.4	223	4.0	95.9	37.5	2,570
UTN	Coal-tar emulsion-sealed	9/28/2003	4811	12.1	166	17.6	174	4.2	112	41.2	2,000
SOC	Asphalt-emulsion-sealed	9/28/2003	4811	15.8	132	22.9	115	5.1	83.1	59.8	1,180
SOC replicate	Asphalt-emulsion-sealed	9/28/2003	4811	15.8	129	22.0	116	4.8	85.5	58.9	1,190
SOC replicate	Asphalt-emulsion-sealed	9/28/2003	4811	15.6	129	22.4	116	4.8	84.0	58.0	1,170
CNR	Coal-tar emulsion-sealed	9/30/2003	4811	12.7	123	15.3	74.1	3.8	75.6	41.0	1,470
OSL	Coal-tar emulsion-sealed	9/30/2003	4811	3.7	43.7	4.3	135	1.1	19.1	10.5	173
UNF	Coal-tar emulsion-sealed	9/30/2003	4811	10.1	153	49.2	74.3	3.2	63.1	30.4	518
ZLK	Unsealed asphalt	9/30/2003	4811	6.8	213	7.7	37.2	2.6	123	24.2	345
ZLK replicate	Unsealed asphalt	9/30/2003	4811	6.4	221	12.6	34.6	2.6	127	22.7	317
Quality-control samples											
MAG-1 found			4788, 4790, 4791	78.8	745	48.3	26.7	18.4	142	146	141
MAG-1 true <sup>2</sup>			--	79.0	760	53.0	24.0	17.2	146	140	130
Relative percent difference			4788, 4790, 4791	.3	2.0	9.3	10.7	6.7	2.8	4.2	8.1
NIST 2704 found			4788, 4790, 4791	46.3	574	41.7	162	12.3	128	94.9	453
NIST 2704 true <sup>2</sup>			--	47.5	555	44.1	161	12.0	130	95.0	438
Relative percent difference			4788, 4790, 4791	2.6	3.4	5.6	.6	2.5	1.6	.1	3.4
SCO-1 found			4788, 4790, 4791	43.8	374	24.5	30.3	11.9	162	133	108
SCO-1 true <sup>2</sup>			--	45.0	410	27.0	31.0	10.8	174	131	103
Relative percent difference			4788, 4790, 4791	2.7	9.2	9.7	2.3	9.7	7.1	1.5	4.7
Footnote at end of table.											

**Table 4.** Particulate-phase concentrations of major and trace elements in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Type of surface	Sampling date	Batch number	Lithium	Manganese	Nickel	Lead	Scandium	Strontium	Vanadium	Zinc
Quality-control samples—Continued											
GSD-8 found			4788, 4790, 4791	12.6	326	1.5	21.2	5.2	46.7	23.1	49.8
GSD-8 true <sup>2</sup>			--	13.2	310	2.7	21.0	5.7	52.0	26.0	43.0
Relative percent difference			4788, 4790, 4791	4.7	5.0	55.3	.9	8.2	10.7	11.8	14.7
MAG-1 found			4788, 4790, 4791	75.0	715	47.2	25.9	18.1	136	141	137
MAG-1 true <sup>2</sup>			--	79.0	760	53.0	24.0	17.2	146	140	130
Relative percent difference			4788, 4790, 4791	5.2	6.1	11.6	7.6	5.1	7.1	.7	5.2
NIST 2704 found			4788, 4790, 4791	44.8	553	41.0	159	12.1	126	92.2	445
NIST 2704 true <sup>2</sup>			--	47.5	555	44.1	161	12.0	130	95.0	438
Relative percent difference			4788, 4790, 4791	5.9	.4	7.3	1.2	.8	3.1	3.0	1.6
SCO-1 found			4788, 4790, 4791	40.7	357	24.0	29.5	11.4	159	124	102
SCO-1 true <sup>2</sup>			--	45.0	410	27.0	31.0	10.8	174	131	103
Relative percent difference			4788, 4790, 4791	10.0	13.8	11.8	5.0	5.4	9.0	5.5	1.0
GSD-8 found			4788, 4790, 4791	11.9	309	1.5	20.7	5.0	44.4	21.8	48.2
GSD-8 true <sup>2</sup>			--	13.2	310	2.7	21.0	5.7	52.0	26.0	43.0
Relative percent difference			4788, 4790, 4791	10.4	.3	58.4	1.4	12.9	15.8	17.6	11.4
MAG-1 found			4811	76.7	734	49.5	21.2	18.9	138	146	134
MAG-1 true <sup>2</sup>			--	79.0	760	53.0	24.0	17.2	146	140	130
Relative percent difference			4811	3.0	3.5	6.8	12.4	9.4	5.6	4.2	3.0
NIST 2704 found			4811	44.3	577	42.6	159	12.6	131	94.1	438
NIST 2704 true <sup>2</sup>			--	47.5	555	44.1	161	12.0	130	95.0	438
Relative percent difference			4811	7.0	3.9	3.5	1.2	4.9	.8	1.0	0
SCO-1 found			4811	42.5	384	25.1	29.4	12.7	167	135	103
SCO-1 true <sup>2</sup>			--	45.0	410	27.0	31.0	10.8	174	131	103
Relative percent difference			4811	5.7	6.5	7.3	5.3	16.2	4.1	3.0	0
GSD-8 found			4811	12.1	340	1.5	20.6	5.6	47.2	24.2	46.1
GSD-8 true <sup>2</sup>			--	13.2	310	2.7	21.0	5.7	52.0	26.0	43.0
Relative percent difference			4811	8.7	9.2	57.1	1.9	1.8	9.7	7.2	7.0
MAG-1 found			4811	73.8	715	48.9	22.6	18.3	134	145	131
MAG-1 true <sup>2</sup>			--	79.0	760	53.0	24.0	17.2	146	140	130
Relative percent difference			4811	6.8	6.1	8.0	6.0	6.2	8.6	3.5	.8
NIST 2704 found			4811	42.7	554	41.4	148	12.2	123	93.1	422
NIST 2704 true <sup>2</sup>			--	47.5	555	44.1	161	12.0	130	95.0	438
Relative percent difference			4811	10.6	.2	6.3	8.4	1.7	5.5	2.0	3.7
SCO-1 found			4811	41.3	358	25.8	27.0	12.3	154	131	100
SCO-1 true <sup>2</sup>			--	45.0	410	27.0	31.0	10.8	174	131	103
Relative percent difference			4811	8.6	13.5	4.5	13.8	13.0	12.2	0	3.0
GSD-8 found			4811	11.3	293	1.4	18.3	5.1	41.5	22.4	42.4
GSD-8 true <sup>2</sup>			--	13.2	310	2.7	21.0	5.7	52.0	26.0	43.0
Relative percent difference			4811	15.5	5.6	63.4	13.7	11.1	22.5	14.9	1.4

<sup>1</sup> TAR sample for 9/26/2003 washed off with real, not simulated, rainfall.<sup>2</sup> Potts and others, 1992.

**Table 5.** Suspended sediment concentrations in washoff samples from parking lots, Austin, Texas, 2003.

[mg/L, milligrams per liter; mm, micrometers; L, liters; --, not applicable]

Site name	Sampling date	Sample <sup>1</sup>	Suspended sediment concentration (mg/L)	Percent greater than 63 $\mu$ m	Percent less than 63 $\mu$ m	Volume sample represents <sup>2</sup> (L)	Approach for calculating mean concentration	Mean suspended sediment concentration (mg/L)
MON	8/12/2003	1	13	59.8	40.2	--	No sediment chemistry	13
MON	8/21/2003	1	38	12.8	87.2	--	Single sample	--
TAR	8/21/2003	1	31	33.8	66.2	--	Single sample	--
PAV	8/21/2003	1	40	16.9	83.1	--	Mean of two samples	41
		2	42	16.5	83.5	--		
ASP	8/21/2003	1	48	18.5	81.5	--	Single sample	--
MON	9/9/2003	1	17	29.8	70.2	--	Mean of two samples	16
		2	14	6.3	93.8	--		
TAR	9/9/2003	1	25	42.4	57.6	--	Mean of two samples	22
		2	19	12.1	87.9	--		
PAV	9/9/2003	1	48	4.8	95.2	--	Mean of two samples	56
		2	64	20.7	79.3	--		
ASP	9/9/2003	1	54	39.0	61.0	--	Single sample	--
MON	9/26/2003	1	7	0	100.0	--	Mean of two samples	8
		2	8	0	100.0	--		
TAR <sup>3</sup>	9/26/2003	1	16	17.6	82.4	--	<sup>4</sup> Sample 3 used	16
		2	5	28.0	72.0	--		
		3	16	52.5	47.5	--		
PAV	9/26/2003	1	42	9.8	90.2	50	Volume-weighted mean	36
		2	22	7.8	92.2	22		
ASP	9/26/2003	1	28	62.7	37.3	--	Single sample	--
TCQ	9/7/2003	1	92	48.7	51.3	24	Mean of two samples	67
		2	54	28.3	71.7	46		
SSE	9/7/2003	1	121	41.4	58.6	--	Mean of two samples	180
		2	238	64.9	35.1	--		
WWB	9/7/2003	1	137	40.1	59.9	--	Mean of two samples	197
		2	256	57.0	43.0	--		
LAC	9/8/2003	1	157	42.2	57.8	--	Mean of two samples	129
		2	101	32.5	67.5	--		
LOW	9/8/2003	1	113	30.4	69.6	--	Mean of two samples	109
		2	104	26.5	73.5	--		

**Table 5.** Suspended sediment concentrations in washoff samples from parking lots, Austin, Texas, 2003—Continued.

Site name	Sampling date	Sample <sup>1</sup>	Suspended sediment concentration (mg/L)	Percent greater than 63 $\mu$ m	Percent less than 63 $\mu$ m	Volume sample represents <sup>2</sup> (L)	Approach for calculating mean concentration	Mean suspended sediment concentration (mg/L)
NWR	9/8/2003	1	323	51.9	48.1	--	<sup>5</sup> Sample 1 used	323
		2	1,004	80.1	19.9	--		
LBJ	9/28/2003	1	142	36.0	64.0	45	Volume-weighted mean	122
		2	86	40.3	59.7	25		
UTN	9/28/2003	1	782	60.5	39.5	50	Volume-weighted mean	594
		2	218	57.3	42.7	25		
SOC	9/28/2003	1	1,047	70.2	29.8	45	Volume-weighted mean	732
		2	164	46.3	53.7	25		
CNR	9/30/2003	1	62	30.8	69.2	50	Volume-weighted mean	53
		2	25	22.6	77.5	16		
OSL	9/30/2003	1	148	56.5	43.5	--	Single sample	--
UNF	9/30/2003	1	160	63.3	36.7	47	Volume-weighted mean	125
		2	50	35.2	64.8	22		
ZLK	9/30/2003	1	377	22.9	77.1	45	Volume-weighted mean	358
		2	249	26.0	74.0	8		

<sup>1</sup> Order of sample collection from churn during filtration.

<sup>2</sup> Some samples collected beginning 9/26/2003 from a known volume of total sample thus allowing calculation of volume-weighted mean concentration.

<sup>3</sup> TAR sample for 9/26/2003 washed off with real, not simulated, rainfall.

<sup>4</sup> Sample 3 represents composite of all water processed.

<sup>5</sup> Sample 2 deemed unrepresentative because of high sand content.