FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Golder-Jacksonville
9428 Baymeadows Rd, Suite 400
Jacksonville,FL 32256

PO #: LTR-FCL-02
Client Project #: Liberty Tire-John King
Date Sampled: Jun 14, 2011
Jun 16, 2011; Invoice: 152043

Invoice

Description	Amount	Units	Extension
EPA8270-SIM-PAH	95.00	3	285.00
TOTAL			285.00

This invoice is due upon receipt.

VISA, MasterCard, and American Express cards will be accepted.

There will be a 1.5% service charge per month on all unpaid balances.

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Report Summary

Date Received: Jun 14, 2011 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
152043SO1	GSB-25C 0-0.5	EPA8270	CLS	Main Lab	Soil
		SM2540 B	PLB	Main Lab	
		XBNE	ACS	Main Lab	
152043SO2	GSB-26C 0-0.5	EPA8270	CLS	Main Lab	Soil
		SM2540 B	PLB	Main Lab	
152043SO3	GSB-26C 0.5-2	EPA8270	CLS	Main Lab	Soil
		SM2540 B	PLB	Main Lab	

Certificate of Results
Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

Jefferson S. Flowers, Ph.D.
President/Technical Director

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Jun 16, 2011; Invoice: 152043

Analysis Report

Lab #: 152043SO1 **Sampled:** 06/14/11 07:10 AM **Desc:** GSB-25C 0-0.5

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Base_Neutral_Extraction	30.0	g	1.00			10175975	XBNE		06/14/11
% Moisture	2.43	%Wt	1.00	0.000250	0.000500	10176020	SM2540 B		06/16/11
1-methyl-Naphthalene	10.1 I	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	090-12-0	06/15/11
2-methyl-Naphthalene	16.3	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	91-57-6	06/15/11
Acenaphthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	83-32-9	06/15/11
Acenaphthylene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	208-96-8	06/15/11
Anthracene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	120-12-7	06/15/11
Benzo(a)anthracene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	56-55-3	06/15/11
Benzo(a)pyrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	50-32-8	06/15/11
Benzo(b)fluoranthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	205-99-2	06/15/11
Benzo(g,h,i)perylene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	191-24-2	06/15/11
Benzo(k)fluoranthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	207-08-9	06/15/11
Chrysene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	218-01-9	06/15/11
Dibenz(a,h)anthracene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	53-70-3	06/15/11
Fluoranthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	206-44-0	06/15/11
Fluorene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	86-73-7	06/15/11
Indeno(1,2,3-cd)pyrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	193-39-5	06/15/11
Naphthalene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	91-20-3	06/15/11
Phenanthrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	85-01-8	06/15/11
Pyrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	129-00-0	06/15/11
Surr:2-Fluorobiphenyl (21-101%)	61.83%		1.00	0.0100	0.0200	10176032	EPA8270	321-60-8	06/15/11
Surr:Nitrobenzene-d5 (18-106%)	61.47%		1.00	0.0100	0.0200	10176032	EPA8270		06/15/11
Surr:Terphenyl-d14 (43-131%)	96.56%		1.00	0.0100	0.0200	10176032	EPA8270		06/15/11

Lab #: 152043SO2 **Sampled:** 06/14/11 07:20 AM **Desc:** GSB-26C 0-0.5

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
% Moisture	7.76	%Wt	1.00	0.000250	0.000500	10176020	SM2540 B		06/16/11

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Lab #: 152043SO2 **Sampled:** 06/14/11 07:20 AM **Desc:** GSB-26C 0-0.5

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1-methyl-Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	090-12-0	06/15/11
2-methyl-Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	91-57-6	06/15/11
Acenaphthene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	83-32-9	06/15/11
Acenaphthylene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	208-96-8	06/15/11
Anthracene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	120-12-7	06/15/11
Benzo(a)anthracene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	56-55-3	06/15/11
Benzo(a)pyrene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	50-32-8	06/15/11
Benzo(b)fluoranthene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	205-99-2	06/15/11
Benzo(g,h,i)perylene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	191-24-2	06/15/11
Benzo(k)fluoranthene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	207-08-9	06/15/11
Chrysene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	218-01-9	06/15/11
Dibenz(a,h)anthracene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	53-70-3	06/15/11
Fluoranthene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	206-44-0	06/15/11
Fluorene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	86-73-7	06/15/11
Indeno(1,2,3-cd)pyrene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	193-39-5	06/15/11
Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	91-20-3	06/15/11
Phenanthrene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	85-01-8	06/15/11
Pyrene	60.0 U	ug/Kg	10.0	60.0	120	10176032	EPA8270	129-00-0	06/15/11
Surr:2-Fluorobiphenyl (21-101%)	49.26%		10.0	0.100	0.200	10176032	EPA8270	321-60-8	06/15/11
Surr:Nitrobenzene-d5 (18-106%)	49.57%		10.0	0.100	0.200	10176032	EPA8270		06/15/11
Surr:Terphenyl-d14 (43-131%)	73.21%		10.0	0.100	0.200	10176032	EPA8270		06/15/11

Lab #: 152043SO3 **Sampled:** 06/14/11 07:20 AM **Desc:** GSB-26C 0.5-2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
% Moisture	9.84	%Wt	1.00	0.000250	0.000500	10176020	SM2540 B		06/16/11
1-methyl-Naphthalene	20.6	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	090-12-0	06/15/11
2-methyl-Naphthalene	27.7	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	91-57-6	06/15/11
Acenaphthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	83-32-9	06/15/11
Acenaphthylene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	208-96-8	06/15/11

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Lab #: 152043SO3 **Sampled:** 06/14/11 07:20 AM **Desc:** GSB-26C 0.5-2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Anthracene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	120-12-7	06/15/11
Benzo(a)anthracene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	56-55-3	06/15/11
Benzo(a)pyrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	50-32-8	06/15/11
Benzo(b)fluoranthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	205-99-2	06/15/11
Benzo(g,h,i)perylene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	191-24-2	06/15/11
Benzo(k)fluoranthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	207-08-9	06/15/11
Chrysene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	218-01-9	06/15/11
Dibenz(a,h)anthracene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	53-70-3	06/15/11
Fluoranthene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	206-44-0	06/15/11
Fluorene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	86-73-7	06/15/11
Indeno(1,2,3-cd)pyrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	193-39-5	06/15/11
Naphthalene	28.1	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	91-20-3	06/15/11
Phenanthrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	85-01-8	06/15/11
Pyrene	6.00 U	ug/Kg	1.00	6.00	12.0	10176032	EPA8270	129-00-0	06/15/11
Surr:2-Fluorobiphenyl (21-101%)	62.18%		1.00	0.0100	0.0200	10176032	EPA8270	321-60-8	06/15/11
Surr:Nitrobenzene-d5 (18-106%)	70.11%		1.00	0.0100	0.0200	10176032	EPA8270		06/15/11
Surr:Terphenyl-d14 (43-131%)	105.34%		1.00	0.0100	0.0200	10176032	EPA8270		06/15/11

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Quality Report

Quality Control Batch: 10176032 **Analyst:** CLS

Blank	**Result**	**Units**
Acenaphthene	6.00U	ug/Kg
Acenaphthylene	6.00U	ug/Kg
Anthracene	6.00U	ug/Kg
Benzo(a)anthracene	6.00U	ug/Kg
Benzo(a)pyrene	6.00U	ug/Kg
Benzo(b)fluoranthene	6.00U	ug/Kg
Benzo(g,h,i)perylene	6.00U	ug/Kg
Benzo(k)fluoranthene	6.00U	ug/Kg
Chrysene	6.00U	ug/Kg
Dibenz(a,h)anthracene	6.00U	ug/Kg
Fluoranthene	6.00U	ug/Kg
Fluorene	6.00U	ug/Kg
Indeno(1,2,3-cd)pyrene	6.00U	ug/Kg
Naphthalene	6.00U	ug/Kg
Phenanthrene	6.00U	ug/Kg
Pyrene	6.00U	ug/Kg
1-methyl-Naphthalene	6.00U	ug/Kg
2-methyl-Naphthalene	6.00U	ug/Kg
Surr:Nitrobenzene-d5	1250	ug/Kg
Surr:Terphenyl-d14	1570	ug/Kg
Surr:2-Fluorobiphenyl	1120	ug/Kg

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Acenaphthene	1240	ug/Kg	1670	74.26	70.00-130.00
Acenaphthylene	1140	ug/Kg	1670	68.64	70.00-130.00

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Quality Control Batch: 10176032 **Analyst:** CLS

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Anthracene	1230	ug/Kg	1670	73.97	70.00-130.00
Benzo(a)anthracene	1320	ug/Kg	1670	79.33	70.00-130.00
Benzo(a)pyrene	1210	ug/Kg	1670	72.75	70.00-130.00
Benzo(b)fluoranthene	1600	ug/Kg	1670	95.79	70.00-130.00
Benzo(g,h,i)perylene	1440	ug/Kg	1670	86.34	70.00-130.00
Benzo(k)fluoranthene	1250	ug/Kg	1670	74.76	70.00-130.00
Chrysene	1430	ug/Kg	1670	85.90	70.00-130.00
Dibenz(a,h)anthracene	1490	ug/Kg	1670	89.31	70.00-130.00
Fluoranthene	1410	ug/Kg	1670	84.83	70.00-130.00
Fluorene	1300	ug/Kg	1670	77.85	70.00-130.00
Indeno(1,2,3-cd)pyrene	1420	ug/Kg	1670	85.16	70.00-130.00
Naphthalene	1150	ug/Kg	1670	68.96	22.76-100.00
Phenanthrene	1510	ug/Kg	1670	90.32	70.00-130.00
Pyrene	1440	ug/Kg	1670	86.11	70.00-130.00
1-methyl-Naphthalene	967	ug/Kg	1670	58.03	27.35-113.22
2-methyl-Naphthalene	1130	ug/Kg	1670	67.93	19.08-101.21
Surr:Nitrobenzene-d5	1190	ug/Kg	1670	71.36	18.52-106.57
Surr:Terphenyl-d14	1430	ug/Kg	1670	86.06	43.67-131.78
Surr:2-Fluorobiphenyl	1300	ug/Kg	1670	78.06	21.82-101.51

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Acenaphthene	704	ug/Kg	1670	42.25	70.00-130.00	6.00U
Acenaphthylene	616	ug/Kg	1670	36.93	70.00-130.00	60.0U
Anthracene	1140	ug/Kg	1670	68.11	70.00-130.00	60.0U
Benzo(a)anthracene	1270	ug/Kg	1670	76.21	70.00-130.00	6.00U
Benzo(a)pyrene	1060	ug/Kg	1670	63.67	70.00-130.00	6.00U
Benzo(b)fluoranthene	1260	ug/Kg	1670	75.35	70.00-130.00	60.0U
Benzo(g,h,i)perylene	1360	ug/Kg	1670	81.76	70.00-130.00	6.00U
Benzo(k)fluoranthene	1230	ug/Kg	1670	74.01	70.00-130.00	6.00U

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Quality Control Batch: 10176032 **Analyst:** CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Chrysene	1420	ug/Kg	1670	85.06	70.00-130.00	6.00U
Dibenz(a,h)anthracene	1430	ug/Kg	1670	85.60	70.00-130.00	60.0U
Fluoranthene	1340	ug/Kg	1670	80.17	70.00-130.00	6.00U
Fluorene	902	ug/Kg	1670	54.13	70.00-130.00	60.0U
Indeno(1,2,3-cd)pyrene	1360	ug/Kg	1670	81.50	70.00-130.00	60.0U
Naphthalene	472	ug/Kg	1670	28.31	70.00-130.00	6.00U
Phenanthrene	1280	ug/Kg	1670	76.63	70.00-130.00	6.00U
Pyrene	1310	ug/Kg	1670	78.69	70.00-130.00	6.00U
1-methyl-Naphthalene	514	ug/Kg	1670	30.80	23.63-87.85	6.00U
2-methyl-Naphthalene	564	ug/Kg	1670	33.86	23.63-87.85	60.0U
Surr:Nitrobenzene-d5	502	ug/Kg	1670	30.10	70.00-130.00	
Surr:Terphenyl-d14	1300	ug/Kg	1670	78.22	70.00-130.00	
Surr:2-Fluorobiphenyl	594	ug/Kg	1670	35.61	70.00-130.00	

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Acenaphthene	702	ug/Kg	1670	42.12	70.00-130.00	6.00U	0.32	30.00
Acenaphthylene	606	ug/Kg	1670	36.32	70.00-130.00	60.0U	1.65	30.00
Anthracene	1090	ug/Kg	1670	65.58	70.00-130.00	60.0U	3.78	30.00
Benzo(a)anthracene	1190	ug/Kg	1670	71.54	70.00-130.00	6.00U	6.32	30.00
Benzo(a)pyrene	1060	ug/Kg	1670	63.29	70.00-130.00	6.00U	0.60	30.00
Benzo(b)fluoranthene	1400	ug/Kg	1670	83.98	70.00-130.00	60.0U	10.83	30.00
Benzo(g,h,i)perylene	1330	ug/Kg	1670	79.59	70.00-130.00	6.00U	2.69	30.00
Benzo(k)fluoranthene	1130	ug/Kg	1670	67.51	70.00-130.00	6.00U	9.17	30.00
Chrysene	1340	ug/Kg	1670	80.40	70.00-130.00	6.00U	5.64	30.00
Dibenz(a,h)anthracene	1440	ug/Kg	1670	86.68	70.00-130.00	60.0U	1.25	30.00
Fluoranthene	1300	ug/Kg	1670	78.14	70.00-130.00	6.00U	2.57	30.00
Fluorene	912	ug/Kg	1670	54.71	70.00-130.00	60.0U	1.07	30.00
Indeno(1,2,3-cd)pyrene	1360	ug/Kg	1670	81.68	70.00-130.00	60.0U	0.22	30.00
Naphthalene	444	ug/Kg	1670	26.62	70.00-130.00	6.00U	6.14	30.00

FLOWERS CHEMICAL LABORATORIES INC.

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P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Golder-Jacksonville
9428 Baymeadows Rd, Suite 400
Jacksonville,FL 32256

PO #: LTR-FCL-02
Client Project #: Liberty Tire-John King
Date Sampled: Jun 14, 2011
Jun 16, 2011; Invoice: 152043

Quality Control Batch: 10176032 **Analyst:** CLS

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Phenanthrene	1240	ug/Kg	1670	74.46	70.00-130.00	6.00U	2.88	30.00
Pyrene	1220	ug/Kg	1670	73.48	70.00-130.00	6.00U	6.85	30.00
1-methyl-Naphthalene	489	ug/Kg	1670	29.33	23.63-87.85	6.00U	4.90	30.00
2-methyl-Naphthalene	533	ug/Kg	1670	31.95	23.63-87.85	60.0U	5.79	30.00
Surr:Nitrobenzene-d5	475	ug/Kg	1670	28.51	70.00-130.00		5.43	30.00
Surr:Terphenyl-d14	1260	ug/Kg	1670	75.33	70.00-130.00		3.77	30.00
Surr:2-Fluorobiphenyl	581	ug/Kg	1670	34.88	70.00-130.00		2.07	30.00

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Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Additional Comments
Soil SIM control limits have not been calculated for each PAH compound, so values are compared to 70-130 QC limits. LCS recoveries are within current FCL control limits.
The sample selected for MS/MSD was not from this sample delivery group.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.