23 773 5998
800 733 5998
3 773 6537

T An lyt l L b at A In
24 Bl ck C k Ro d
M k g MI 49444 2673
f @t c l b m
www t l bs c m

US EPA RECORDS CENTER REGION 5
451042

RECEIVED
MAY 20 2004
REMEDIATION & REDEVELOPMENT DIV.
SEMI DISTRICT OFFICE

TRACE

the A n f c mpl n

May 18 2004

Ray Spaulding
MDEQ RRD
38980 7 Mile Road
Livonia MI 48152

RE TRACE ID EE036
MDEQ Site 82001589/ Carter Color Coat

Dear Mr Spaulding

Enclosed are the analytical results which represent the completed report for the above project All analyses were completed at Trace Analytical Laboratories Inc

The samples were received on May 4 2004 in good condition correctly labeled and properly preserved Any problems encountered during sample receipt are addressed in the enclosed Sample Log In Checklist

The analytical data associated with this project have been reviewed for accuracy precision and completeness Methods used for analyses are indicated on analytical reports Every practical effort was made to meet the quality control requirements of each analytical method and the reporting limit specifications of the project

Any problems encountered during the handling and/or analyses of the samples have been addressed in the Statement of Data Qualifications Section If you have any questions or require further information please do not hesitate to contact me

Sincerely

Ray V Buhl

Ray V Buhl
Laboratory Manager

Enclosures

c Jeff Lippert
MacTec
46850 Magellan Drive
Suite 190
Novi Michigan 48377

ph 3 773 5998
80 733 5998
3 773 6537

T a A alyt l L b t s l
224 Bl k C ek Ro d
M k g MI 49444 673
fo@t e labs c m
www t l bs m

TRACE

th s c f c mpl n

RE TRACE ID EE036
MDEQ Site 82001589/ Carter Color Coat

CROSS REFERENCE TABLE

MDEQ ID	TRACE ID
F2 CS2	EE036 01
SW MU4 CS1	EE036 02
SW MU2 CS2	EE036 03
F1 CS2	EE036 04
F1 CS3	EE036 05
SW MU6 CS1	EE036 06
SW MU6 CS2	EE036 07
SW MU5 CS2	EE036 08

ph ne 23 773 5998
ll f 8 733 5998
x 23 773 6537

T An lyt l L b t s In
2 4 Bl ck C k R d
M k g MI 49444 673
f @t l b c m
www t l bs m

TRACE

the s f mpl a

RE TRACE ID EE036
MDEQ Site 82001589/ Carter Color Coat

ANALYTICAL RESULTS
STATEMENT OF DATA QUALIFICATIONS

TRACE ID	EE036 01 EE036 04 EE036 05	Sample ID	F2 CS2 F1 CS2 F1 CS3
Parameter	Surrogates	Method	SW846 8270C

Qualifier ***Explanation***
A dilution of 1 10 or greater was required on this sample

Qualification/Narrative
Consequently surrogate recoveries are not available

TRACE ID	EE036 02 EE036 03 EE036 06 EE036 07 EE036 08	Sample ID	SW MU4 CS1 SW MU2 CS2 SW MU6 CS1 SW MU6 CS2 SW MU5 CS2
Parameter	Acid Surrogates and Acid Compounds With	Method	SW846 8270C

Qualifier ***Explanation***
The surrogate recovery was out of control low when compared to the control limits due to the sample matrix Low or no recoveries for acid compounds are typical for concrete matrices

Qualification/Narrative
Results for acid compounds must be considered estimated

ph ne 3 773 5998
t ll f 80 733 5998
fax 23 773 6537

T An lyt l L b t l
224 Bl k Cr k R ad
M sk g MI 49444 673
f @t lab c m
www t e labs m

TRACE

the sc n e f mpl

RE TRACE ID EE036
MDEQ Site 82001589/ Carter Color Coat

QUALITY CONTROL RESULTS
STATEMENT OF DATA QUALIFICATIONS

Quality control data which did not meet specifications but had no impact on actual sample data are narrated on the individual quality control reports

---

The QA/QC results associated with the analysis of these samples have been reviewed by Mr Ray V Buhl To the best knowledge of the signer the QA/QC data are complete and accurate The review was completed May 18 2004

TRACE ANALYTICAL LABORATORIES Inc

Ray V Buhl

Ray V Buhl
Laboratory Manager

Chain of Custody Form(s)
Sample Log-in Checklist(s)

TRACE

Assurance Accuracy Accountability

phone 231 773 5998
toll free 800 733 5998
fax 231 773 6537

Trace Analytical Laboratories Inc
2241 Black Creek Road
Muskegon MI 49444 2673
www trace labs com

CHAIN-OF-CUSTODY RECORD AND WORK AUTHORIZATION

TRACE ID NO EE036

Page ____ of ____

Report Results To

Client Name: MDEQ – Livonia Office
Contact Person: Ray Spaulding
Mailing Address:
City State Zip Code:
Phone: 734-953-1474 Fax:
Email Address: spauldie@michigan.gov
Project Name: Carter Color Coat PO # Trace Quote #
Project #: 82001589 Sampled by:

For Use by TRACE Personnel Only

Logged By: Checked By:
Received on ice: Yes No Cooler Temp (C): 8°
Preservative Checked: Yes No
Volatiles Preserved: HCl MeOH En Core No Low Level

Sample Identification / Requests for Analytical Services

Regulatory Requirements: MERA TMDLs ☐ RCRA ☐ NPDES ☐ USACE ☐ Special ☐

Turnaround Requirements: Standard (2 wk) ☐ 5 Day ☐ 2 4 Day (RUSH) ☐ 24 Hour (RUSH) ☐ Requires prior approval

Matrix Key: S = Soil, W = Water, SE = Sediment, OI = Oil, SO = Solid Waste, WI Wipes, L – Liquid Waste, A = Air, D = Drinking Water

ANALYSIS REQUESTED

SAMPLE NO	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBER OF CONTAINERS	BNA-8270	REMARKS	Possible Health Hazard
01	4/28/04			F2 CS2	SO	1	X		
02				SW MU4 CS1	SO	1	X		
03				SW MU2 CS2	SO	1	X		
04				F1 CS2	SO	1	X		
05				F1 CS3	SO	1	X		
06				SW MU6 CS1	SO	1	X		
07				SW MU6 CS2	SO	1	X		
08				SW MU5 CS2	SO	1	X		

Please Sign

Item #	RELEASED BY	RECEIVED BY	DATE	TIME
	1) Ray Bub	Bob Baker	5/4/04	12:47
	2) Bob Baker	[illegible]	5/4/04	2 50

Item #	RELEASED BY	RECEIVED BY	DATE	TIME
	3)			
	4)			

In executing this agreement the client acknowledges acceptance of the terms of the agreement as listed on the reverse side

SAMPLE LOG IN CHECKLIST

Date 5-4-04 | Client Name MDEQ - LIVONIA | # of Coolers

HPN # | Project Name CARTER COLOR COAT | Cooler #s

Project # EF036 | Logged in by [signature] | Cooler #s

Cooler Receipt

Cooler/samples delivered by: Trace courier [✓] | Hand delivered [ ] | Commercial cour [ ]

Name of delivery person

Name of courier service

Did cooler come with a bill of lading? No [✓] | Yes [ ]

Way Bill or Tracking #

COC Seals present and intact on cooler? No [✓] | Yes [ ]

Custody seals signed by

Client COC number

Type of packing in cooler

Coolant and Temperature

Type of Coolant Used

	Yes	No
Slurry w/ crushed ice	[ ]	[ ]
Multiple bags of ice around samples?	[✓]	[ ]
Packs/ Blue Ice	[ ]	[ ]
No Coolant Present		[ ]

Cooler Temperature

Correction Factor _____ C

Date 5-4-04 Time 2:50

Temperature Blank _____ C

Range of 3 samples 3 - 4 - 5 C

Melt Water _____ C

Ice still present upon receipt [✓] Yes [ ] No

General

	Yes	No	NA
COC taped to inside of cooler lid?		✓	
All bottles arrived unbroken with labels in good condition?	✓		
Each sample is in a sealed plastic bag?		✓	
Labels filled out completely?	✓		
All bottle labels agree with Chain of Custody (COC)?	✓		
Sufficient sample to run tests requested?	✓		
pH checked and samples at correct pH?			✓
Correct preservative added to samples?			✓
DRO/GRO samples received and appropriate check in form completed?			✓
Air bubbles absent from VOAs?		✓	✓
COC filled out properly and signed by client?	✓		
[illegible] TRACE sample custody?	✓		
Was project manager called and samples discussed?			

Contact _____ Date _____

Notes

DEQ

ENVIRONMENTAL LABORATORY ANALYSIS REQUEST SHEET

LAB ORDER # 40500003

MATRIX=SEDIMENT/SOIL/SOLIDS

SITE CODE NUMBER	SITE NAME	Circle (appropriate: CMI STD NPDES Superfund
82001589	Carter Color Coat	

DIVISION	DISTRICT/OFFICE	MDEQ PROJECT MANAGER	E-MAIL ADDRESS	PHONE	ACCEPT HT CODES? YES / NO
RRD	SE MI	Ray Spaulding	spauldc@m	734-953-1474	

PRIMARY CONTACT PERSON	PHONE	AY	INDEX	PCA
Jeff Lippert	248-926-4006 3081		48014	30770

OVERFLOW LAB (Required for RRD & CMI samples)

1ST CHOICE Trace 2ND CHOICE

PROJECT 454859 PH 00

E-MAIL ADDRESSES TO SEND ADDITIONAL REPORTS TO: jalippert@mactec.com

COLLECTED BY Jeff Lippert

****** SAFETY INFORMATION REQUIRED ******

SEE BACK OF FORM

LAB USE ONLY		SAMPLE DESCRIPTION	SAMPLE COLLECTED DATE MM/DD/YY	TIME MILITARY	COMMENTS
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]
2	AA	F2 CS2	↓	955	PNA sent to Trace
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]
4	AA	SWMU4 CS1	↓	1035	PNA sent to Trace
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]
6	AA	SWMU2 CS2	↓	1135	PNA sent to Trace
[redacted]		[redacted]	[redacted]	[redacted]	[redacted]
8	AA	F1 CS2	↓	1500	PNA sent to Trace
9	AA	F1 CS3	↓	1530	PNA sent to Trace
10	AA	SWMU6 CS1	↓	1555	PNA sent to Trace

ORGANIC

VOA VOLATILES (MeOH/8260)
- VOC Full List 1 2 3 4 5 6 7 8 9 10
- BTEX/MTBE only 1 2 3 4 5 6 7 8 9 10

OS PESTICIDES/PCBS (8081/8082)
- Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10
- Pesticides only 1 2 3 4 5 6 7 8 9 10
- [redacted]

BNA BASE NEUTRAL & ACIDS (8270)
- BNAs ~~1 2 3 4 5 6~~ 7 8 9 10
- PNAs only 1 2 3 4 5 6 7 8 9 10
- BNs only 1 2 3 4 5 6 7 8 9 10

TO Trace PH 5/3/04

ORGANIC SPECIAL REQUESTS

Library Search (Qualitative)
- Volatiles 1 2 3 4 5 6 7 8 9 10
- Semivolatiles 1 2 3 4 5 6 7 8 9 10
- FingerPrint 1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS
- COD 1 2 3 4 5 6 7 8 9 10
- KJEL N Tot P 1 2 3 4 5 6 7 8 9 10
- Phenolics 1 2 3 4 5 6 7 8 9 10
- Total CN 1 2 3 4 5 6 7 8 9 10
- % Total Solids 1 2 3 4 5 6 7 8 9 10
- 1 2 3 4 5 6 7 8 9 10
- 1 2 3 4 5 6 7 8 9 10

INORGANIC

MS
- [redacted] (As, Ba, Cd, Cr Cu, Pb, Hg, S Ag, Zn)
- Fe Co Li Mn 1 2 3 4 5 6 7 8 9 10
- Al Be Mo T V 1 2 3 4 5 6 7 8 9 10
- Sr Strontium 1 2 3 4 5 6 7 8 9 10
- N Nickel 1 2 3 4 5 6 7 8 9 10
- Tl Thallium 1 2 3 4 5 6 7 8 9 10
- Ca Mg Na K 1 2 3 4 5 6 7 8 9 10
- % Total Solids 1 2 3 4 5 6 7 8 9 10
- 1 2 3 4 5 6 7 8 9 10
- 1 2 3 4 5 6 7 8 9 10
- 1 2 3 4 5 6 7 8 9 10

MeOH Preservative Tracking Number FL

Chain-of Custody	RELEASED BY / ORGANIZATION	RECEIVED BY / ORGANIZATION	DATE	TIME
	Print Name & Organization: Jennifer West MACTEC	Print Name & Organization:		
	Signature: Jennifer West	Signature:		
	Print Name & Organization: Dropped / FedEx	Print Name & Organization: Ross Quillan	5/3/04	1450
	Signature:	Signature:		
	Print Name & Organization:	Print Name & Organization:		
	Signature:	Signature:		

MDEQ ES&S DIV LAB SEC Fax 517-335-9600 May 3 2004 15 05 P 02

DEQ

ENVIRONMENTAL LABORATORY ANALYSIS REQUEST SHEET

LAB ORDER # 40500003

MATRIX–SEDIMENT/SOIL/SOLIDS

SITE CODE NUMBER	SITE NAME	Circle if appropriate CMI STD NPDES Superfund
82001529	Carter Color Coat	

DIVISION	DISTRICT/OFFICE	MDEQ PROJECT MANAGER	E-MAIL ADDRESS	PHONE	ACCEPT HT CODES? YES / NO
PRD	SE MI	Ray Spaulding	spauldie@mi.gov	734-953-1474	

PRIMARY CONTACT PERSON	PHONE	AY	INDEX	PCA
Jeff Lippert	248-926-3021 4008			

OVERFLOW LAB (Required for RRD & CMI samples)

1ST CHOICE	2ND CHOICE	PROJECT	PH

E-MAIL ADDRESSES TO SEND ADDITIONAL REPORTS TO: jalippert@mactec.com

COLLECTED BY: Jeff Lippert

****** SAFETY INFORMATION REQUIRED ******

SEE BACK OF FORM

LAB USE ONLY		SAMPLE DESCRIPTION	SAMPLE COLLECTED DATE MM/DD/YY	TIME MILITARY	COMMENTS
1	AA	SW MU6 ~~SW MU6~~ CS2	4/28/04	1610	PNA Sent to Trace
~~2~~	~~AA~~	~~SW MU6 CS1~~	~~↓~~	~~1620~~	~~[illegible]~~
3	AA	SW MU5 CS2	↓	1630	PNA Sent to Trace
4	AA	~~SW MU5 CS3~~	~~↓~~	~~1640~~	
5	AA				
6	AA				
7	AA				
8	AA				
9	AA				
10	AA				

ORGANIC

VOA VOLATILES *(MeOH/8260)

VOC Full List	1 2 3 4 5 6 7 8 9 10
BTEX/MTBE only	1 2 3 4 5 6 7 8 9 10

OS PESTICIDES/PCBS (8081/8082)

Pesticides & PCBs	1 2 3 4 5 6 7 8 9 10
Pesticides only	1 2 3 4 5 6 7 8 9 10

[redacted]

BNA BASE NEUTRAL & ACIDS (8270)

BNAs	1 2 3 4 5 6 7 8 9 10
PNAs only	1 2 3 4 5 6 7 8 9 10
BNs only	1 2 3 4 5 6 7 8 9 10

To Trace 5/3/04 RD

ORGANIC SPECIAL REQUESTS

Library Search (Qualitative)	
Volatiles	1 2 3 4 5 6 7 8 9 10
Semivolatiles	1 2 3 4 5 6 7 8 9 10
FingerPrint	1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS

COD	1 2 3 4 5 6 7 8 9 10
KJEL N Tot. P	1 2 3 4 5 6 7 8 9 10
Phenolics	1 2 3 4 5 6 7 8 9 10
Total CN	1 2 3 4 5 6 7 8 9 10
% Total Solids	1 2 3 4 5 6 7 8 9 10
_____	1 2 3 4 5 6 7 8 9 10
_____	1 2 3 4 5 6 7 8 9 10

INORGANIC

MS

[redacted]

(As Ba Cd Cr Cu Pb Hg Se Ag Zn)

Fe Co Li Mn	1 2 3 4 5 6 7 8 9 10
Al Be Mo Ti V	1 2 3 4 5 6 7 8 9 10
Sr Strontium	1 2 3 4 5 6 7 8 9 10
Ni Nickel	1 2 3 4 5 6 7 8 9 10
Tl Thallium	1 2 3 4 5 6 7 8 9 10
Ca Mg Na K	1 2 3 4 5 6 7 8 9 10
% Total Solids	1 2 3 4 5 6 7 8 9 10
_____	1 2 3 4 5 6 7 8 9 10
_____	1 2 3 4 5 6 7 8 9 10
_____	1 2 3 4 5 6 7 8 9 10

MeOH Preservative Tracking Number FL

Chain of Custody

	RELEASED BY / ORGANIZATION	RECEIVED BY / ORGANIZATION	DATE	TIME
Print Name & Organization	Jennifer Went MACTEC			
Signature	Jennifer Went			
Print Name & Organization	Dropped/Fed Ex	Ross Dufthan	5/3/04	1450
Signature				
Print Name & Organization				
Signature				

See Safety Section *Back of Form, page 2

Revised May 2003

Sample Results

ph ne 231 773 5998
t ll f 80 733 5998
fax 3 773 6537

T a An lyt l L b at es In
224 Bl k C k R d
M k g MI 49444 673
nf @t l b m
www t ac l b m

TRACE

tl sc f mpl

Mr Ray Spaulding
MDEQ RRD
Project #82001589/Carter Color Coat

Trace ID EE036 01
Sample ID F2 CS2
Batch ID BNA050501S
% Moisture 7 98

Method SW846 8270C
Matrix WAS
DL Multiplier 109
Sample Date 04/28/04
Sample Received 05/04/04
Extraction Date 05/05/04
Analysis Date 05/10/04
Report Date 05/19/04

Semi Volatile Organic Analytes	RESULTS mg/kg	REPORTING LIMIT mg/kg
N Nitrosodimethylamine	U	19
bis(2 Chloroethyl)ether	U	3 6
2 Chlorophenol	U	19
Phenol	U	19
1 3 Dichlorobenzene	U	19
1 4 Dichlorobenzene	U	19
1 2 Dichlorobenzene	U	19
bis(2 Chloroisopropyl)ether	U	19
2 Methylphenol	U	19
3/4 Methylphenol	U	19
N Nitroso di n propylamine	U	19
Hexachloroethane	U	19
Nitrobenzene	U	3 6
Isophorone	U	19
2 Nitrophenol	U	19
2 4 Dimethylphenol	U	19
bis(2 Chloroethoxy)methane	U	19
1 2 4 Trichlorobenzene	U	19
2 4 Dichlorophenol	U	19
Naphthalene	U	19
Hexachloro 1 3 butadiene	U	19
4 Chloro 3 methylphenol	U	19
2 Methylnaphthalene	U	19
Hexachlorocyclopentadiene	U	19
2 4 6 Trichlorophenol	U	3 6
2 4 5 Trichlorophenol	U	19
2 Chloronaphthalene	U	19
2 Nitroaniline	U	19
Dimethylphthalate	U	19
Acenaphthylene	U	19
2 6 Dinitrotoluene	U	19
3 Nitroaniline	U	19
Acenaphthene	U	19
Dibenzofuran	U	19
2 4 Dinitrotoluene	U	19
4 Nitrophenol	U	73
2 4 Dinitrophenol	U	73

NOTE Soil res lts are based on dry weight Key # Rerun U Compound not detected J Est mated alue B Analyte p esent n blank E Exceeded the range of cal brat o X Quantified from a p io s run See nar ative

ph 31 773 5998
t ll f 80 733 5998
f x 3 773 6537

T a An lyt l L b at A l
24 Bl k C ek R ad
M skeg MI 49444 673
f @tra l b m
www t ac l b om

TRACE

tl f pl

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	109
		Sample Date	04/28/04
Trace ID	EE036 01	**Sample Received**	05/04/04
Sample ID	F2 CS2	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/10/04
% Moisture	7 98	**Report Date**	05/19/04

Semi-Volatile Organic Analytes	**RESULTS mg/kg**	**REPORTING LIMIT mg/kg**
Diethylphthalate	U	19
Fluorene	U	19
4 Chlorophenyl phenylether	U	19
4 Nitroaniline	U	19
4 6 Dinitro 2 methylphenol	U	19
N Nitrosodiphenylamine	U	19
Azobenzene	U	19
4 Bromophenyl phenylether	U	19
Hexachlorobenzene	U	19
Pentachlorophenol	U	19
Phenanthrene	130	19
Anthracene	26	19
Carbazole	23	19
Di n butylphthalate	U	19
Fluoranthene	300	19
Pyrene	230	19
Butylbenzylphthalate	U	19
Benzo(a)anthracene	120	3 6
Chrysene	140	19
bis(2 Ethylhexyl)phthalate	U	19
Di n-octylphthalate	U	19
Benzo(b)fluoranthene	160	3 6
Benzo(k)fluoranthene	68	19
Benzo(a)pyrene	94	3 6
Indeno(1 2 3 cd)pyrene	36	3 6
Dibenz(a h)anthracene	11	3 6
Benzo(g h i)perylene	26	19

Surrogates	**RECOVERY %**	**CONTROL LIMITS %**	
2 Fluorophenol	*	44	84
Phenol-d5	*	38	88
Nitrobenzene d5	*	42	102
2 Fluorobiphenyl	*	35	102
2 4 6 Tribromophenol	*	37	109
p Terphenyl d14	*	43	119

NOTE So l esults a e based o dry weight Key # R run U Compo nd ot detected J Estimated value B Analyte p ese t n blank E Exceeded the range of cal b ation X Quantified from a pre ious run See narrative

ph 3 773 5998 T a Analyt l Lab at In
ll f 8 733 5998 224 Bl k C k R d
f x 3 773 6537 M sk g n MI 49444 2673
f @t l b m
www t l bs m

TRACE

tl s f mpl n

Mr Ray Spaulding
MDEQ RRD
Project #82001589/Carter Color Coat

Trace ID EE036 02
Sample ID SW MU4 CS1
Batch ID BNA050501S
% Moisture 3 52

Method SW846 8270C
Matrix WAS
DL Multiplier 2 1
Sample Date 04/28/04
Sample Received 05/04/04
Extraction Date 05/05/04
Analysis Date 05/07/04
Report Date 05/19/04

Semi Volatile Organic Analytes	RESULTS mg/kg		REPORTING LIMIT mg/kg
N Nitrosodimethylamine	U		0 36
bis(2 Chloroethyl)ether	U		0 069
2-Chlorophenol	U	*	0 36
Phenol	U	*	0 36
1 3 Dichlorobenzene	U		0 36
1 4 Dichlorobenzene	U		0 36
1 2 Dichlorobenzene	U		0 36
bis(2 Chloroisopropyl)ether	U		0 36
2 Methylphenol	U	*	0 36
3/4 Methylphenol	U	*	0 36
N Nitroso di n propylamine	U		0 36
Hexachloroethane	U		0 36
Nitrobenzene	U		0 069
Isophorone	U		0 36
2 Nitrophenol	U	*	0 36
2 4 Dimethylphenol	U	*	0 36
bis(2-Chloroethoxy)methane	U		0 36
1 2 4 Trichlorobenzene	U		0 36
2 4 Dichlorophenol	U	*	0 36
Naphthalene	U		0 36
Hexachloro 1 3 butadiene	U		0 36
4 Chloro 3 methylphenol	U	*	0 36
2 Methylnaphthalene	U		0 36
Hexachlorocyclopentadiene	U		0 36
2 4 6 Trichlorophenol	U	*	0 33
2 4 5 Trichlorophenol	U	*	0 36
2 Chloronaphthalene	U		0 36
2 Nitroaniline	U		0 36
Dimethylphthalate	U		0 36
Acenaphthylene	U		0 36
2 6 Dinitrotoluene	U		0 36
3 Nitroaniline	U		0 36
Acenaphthene	U		0 36
Dibenzofuran	U		0 36
2 4 Dinitrotoluene	U		0 36
4 Nitrophenol	U	*	1 7
2 4 Dinitrophenol	U	*	1 7

NOTE Sol esults a e based on dry we ght Key # Rerun U Compo d t detected J Estimated alue B An lyte p esent n blank E Exceeded the range of cal br t on X Quantif ed from a prev o s run See na rativ

ph 3 773 5998 T A lyt l L b t s In
toll f 8 733 5998 224 Bl k C k R d
f x 3 773 6537 M sk g MI 49444 673
fo@t a l b om
www t ac l b m

TRACE

the f mpl e

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	2 1
		Sample Date	04/28/04
Trace ID	EE036 02	**Sample Received**	05/04/04
Sample ID	SW MU4 CS1	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/07/04
% Moisture	3 52	**Report Date**	05/19/04

Semi Volatile Organic Analytes	**RESULTS mg/kg**		**REPORTING LIMIT mg/kg**
Diethylphthalate	U		0 36
Fluorene	U		0 36
4 Chlorophenyl phenylether	U		0 36
4 Nitroaniline	U		0 36
4 6 Dinitro 2 methylphenol	U	*	0 36
N Nitrosodiphenylamine	U		0 36
Azobenzene	U		0 36
4 Bromophenyl phenylether	U		0 36
Hexachlorobenzene	U		0 36
Pentachlorophenol	U	*	0 36
Phenanthrene	0 39		0 36
Anthracene	U		0 36
Carbazole	U		0 36
Di n butylphthalate	U		0 36
Fluoranthene	U		0 36
Pyrene	U		0 36
Butylbenzylphthalate	U		0 36
Benzo(a)anthracene	U		0 069
Chrysene	U		0 36
bis(2 Ethylhexyl)phthalate	U		0 36
Di n octylphthalate	U		0 36
Benzo(b)fluoranthene	U		0 069
Benzo(k)fluoranthene	U		0 36
Benzo(a)pyrene	U		0 069
Indeno(1 2 3 cd)pyrene	U		0 069
Dibenz(a h)anthracene	U		0 069
Benzo(g h i)perylene	U		0 36
Surrogates	**RECOVERY %**		**CONTROL LIMITS %**
2 Fluorophenol		*	44 84
Phenol-d5		*	38 88
Nitrobenzene d5	54		42 102
2 Fluorobiphenyl	61		35 102
2 4 6 Tribromophenol		*	37 109
p Terphenyl d14	73		43 119

NOTE So l es lts are bas d n dry we ght Key # Rerun U Compo nd not detected J Estimat d val e B Analyte p ese t n blank E Exceeded the range of cal b at o X Q antrfed from a pre o s run See nar at ve

pl on 3 773 5998
ll f 8 733 5998
f x 3 773 6537

T a A alyt l Lab t s l
224 Bl k C k Ro d
M sk g MI 49444 673
f @t ac l b m
www t l b m

TRACE

tl s of c mpl

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	2 1
		Sample Date	04/28/04
Trace ID	EE036 03	**Sample Received**	05/04/04
Sample ID	SW MU2 CS2	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/10/04
% Moisture	5 94	**Report Date**	05/19/04

Semi Volatile Organic Analytes	**RESULTS mg/kg**		**REPORTING LIMIT mg/kg**
N Nitrosodimethylamine	U		0 36
bis(2-Chloroethyl)ether	U		0 069
2-Chlorophenol	U	*	0 36
Phenol	U	*	0 36
1 3 Dichlorobenzene	U		0 36
1 4 Dichlorobenzene	U		0 36
1 2 Dichlorobenzene	U		0 36
bis(2 Chloroisopropyl)ether	U		0 36
2 Methylphenol	U	*	0 36
3/4 Methylphenol	U	*	0 36
N Nitroso di n propylamine	U		0 36
Hexachloroethane	U		0 36
Nitrobenzene	U		0 069
Isophorone	U		0 36
2 Nitrophenol	U	*	0 36
2 4 Dimethylphenol	U	*	0 36
bis(2 Chloroethoxy)methane	U		0 36
1 2 4 Trichlorobenzene	U		0 36
2 4 Dichlorophenol	U	*	0 36
Naphthalene	U		0 36
Hexachloro 1 3 butadiene	U		0 36
4 Chloro 3 methylphenol	U	*	0 36
2 Methylnaphthalene	U		0 36
Hexachlorocyclopentadiene	U		0 36
2 4 6 Trichlorophenol	U	*	0 33
2 4 5 Trichlorophenol	U	*	0 36
2 Chloronaphthalene	U		0 36
2 Nitroaniline	U		0 36
Dimethylphthalate	U		0 36
Acenaphthylene	U		0 36
2 6 Dinitrotoluene	U		0 36
3 Nitroaniline	U		0 36
Acenaphthene	U		0 36
Dibenzofuran	U		0 36
2 4 Dinitrotoluene	U		0 36
4 Nitrophenol	U	*	1 7
2 4 Dinitrophenol	U	*	1 7

NOTE So l esults a e based o dry we ght Key # Reru U Compou d not detected J Est mated alue B Analyte p esent n blank E Exceeded the range of cal b atio X Quantified from a previo s run See nar ative

ph n 3 773 5998 Ta An lyt l L b t l
ll f 8o 733 5998 4 Bl k C eek R d
f x 3 773 6537 M k g Ml 49444 673
nfo@t ace labs com
www t a l b com

TRACE

Mr Ray Spaulding
MDEQ-RRD
Project #82001589/Carter Color Coat

Method	SW846 8270C
Matrix	WAS
DL Multiplier	2 1
Sample Date	04/28/04
Sample Received	05/04/04
Extraction Date	05/05/04
Analysis Date	05/10/04
Report Date	05/19/04

Trace ID	EE036 03
Sample ID	SW MU2 CS2
Batch ID	BNA050501S
% Moisture	5 94

Semi Volatile Organic Analytes	RESULTS mg/kg		REPORTING LIMIT mg/kg
Diethylphthalate	U		0 36
Fluorene	U		0 36
4 Chlorophenyl phenylether	U		0 36
4 Nitroaniline	U		0 36
4 6 Dinitro 2 methylphenol	U	*	0 36
N Nitrosodiphenylamine	U		0 36
Azobenzene	U		0 36
4 Bromophenyl phenylether	U		0 36
Hexachlorobenzene	U		0 36
Pentachlorophenol	U	*	0 36
Phenanthrene	1 3		0 36
Anthracene	U		0 36
Carbazole	U		0 36
Di n butylphthalate	U		0 36
Fluoranthene	1 1		0 36
Pyrene	0 72		0 36
Butylbenzylphthalate	U		0 36
Benzo(a)anthracene	0 080		0 069
Chrysene	U		0 36
bis(2 Ethylhexyl)phthalate	U		0 36
Di n octylphthalate	U		0 36
Benzo(b)fluoranthene	0 080		0 069
Benzo(k)fluoranthene	U		0 36
Benzo(a)pyrene	U		0 069
Indeno(1 2 3 cd)pyrene	U		0 069
Dibenz(a h)anthracene	U		0 069
Benzo(g h i)perylene	U		0 36

Surrogates	RECOVERY %		CONTROL LIMITS %	
2 Fluorophenol		*	44	84
Phenol-d5	29	*	38	88
Nitrobenzene d5	67		42	102
2 Fluorobiphenyl	73		35	102
2 4 6 Tribromophenol		*	37	109
p Terphenyl-d14	80		43	119

NOTE So l es its a bas d on dry we ght Key # Rerun U Compou d ot detected J Est mated al B Analyte p ese t n blank E Exceeded the range of cal b at o X Quant fed from a pre ious un See ar ative

h e 23 773 5998 T Analyt I L b t s In
ll f 8 733 5998 4 Bl k C k R ad
f x 3 773 6537 M sk g MI 49444 673
f @t l bs m
www t l bs m

TRACE

tl s f pl

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	22
		Sample Date	04/28/04
Trace ID	EE036 04	**Sample Received**	05/04/04
Sample ID	F1 CS2	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/11/04
% Moisture	10 2	**Report Date**	05/19/04

Semi Volatile Organic Analytes	RESULTS mg/kg	REPORTING LIMIT mg/kg
N Nitrosodimethylamine	U	3 7
bis(2 Chloroethyl)ether	U	0 73
2 Chlorophenol	U	3 7
Phenol	U	3 7
1 3 Dichlorobenzene	U	3 7
1 4 Dichlorobenzene	U	3 7
1 2 Dichlorobenzene	U	3 7
bis(2 Chloroisopropyl)ether	U	3 7
2 Methylphenol	U	3 7
3/4 Methylphenol	U	3 7
N Nitroso di n propylamine	U	3 7
Hexachloroethane	U	3 7
Nitrobenzene	U	0 73
Isophorone	U	3 7
2 Nitrophenol	U	3 7
2 4 Dimethylphenol	U	3 7
bis(2 Chloroethoxy)methane	U	3 7
1 2 4 Trichlorobenzene	U	3 7
2 4 Dichlorophenol	U	3 7
Naphthalene	U	3 7
Hexachloro 1 3 butadiene	U	3 7
4 Chloro 3 methylphenol	U	3 7
2 Methylnaphthalene	U	3 7
Hexachlorocyclopentadiene	U	3 7
2 4 6 Trichlorophenol	U	0 73
2 4 5 Trichlorophenol	U	3 7
2 Chloronaphthalene	U	3 7
2 Nitroaniline	U	3 7
Dimethylphthalate	U	3 7
Acenaphthylene	U	3 7
2 6 Dinitrotoluene	U	3 7
3 Nitroaniline	U	3 7
Acenaphthene	3 9	3 7
Dibenzofuran	U	3 7
2 4 Dinitrotoluene	U	3 7
4 Nitrophenol	U	15
2 4 Dinitrophenol	U	15

NOTE Soil es lts are based o dry we ght Key # Rerun U Compo nd not detected J Est mated alue B Analyte p esent n blank E Exceeded the range of cal b ation X Quantified fr m a p evio s run See arrative

pho 3 773 5998 Ta A lyt IL b t l c
t llf e 8o 733 5998 2 4 Black C k R d
f x 3 773 6537 M sk g MI 49444 673
fo@t l b m
www t l bs m

TRACE

th A ce f o pl a

Mr Ray Spaulding
MDEQ-RRD
Project #82001589/Carter Color Coat

Trace ID EE036 04
Sample ID F1 CS2
Batch ID BNA050501S
% Moisture 10 2

Method SW846 8270C
Matrix WAS
DL Multiplier 22
Sample Date 04/28/04
Sample Received 05/04/04
Extraction Date 05/05/04
Analysis Date 05/11/04
Report Date 05/19/04

Semi Volatile Organic Analytes	RESULTS mg/kg	REPORTING LIMIT mg/kg
Diethylphthalate	U	3 7
Fluorene	6 2	3 7
4 Chlorophenyl phenylether	U	3 7
4 Nitroaniline	U	3 7
4 6 Dinitro 2 methylphenol	U	3 7
N Nitrosodiphenylamine	U	3 7
Azobenzene	U	3 7
4 Bromophenyl phenylether	U	3 7
Hexachlorobenzene	U	3 7
Pentachlorophenol	U	3 7
Phenanthrene	52	3 7
Anthracene	11	3 7
Carbazole	8 3	3 7
Di n butylphthalate	U	3 7
Fluoranthene	160	19
Pyrene	150	19
Butylbenzylphthalate	U	3 7
Benzo(a)anthracene	46	0 73
Chrysene	55	3 7
bis(2 Ethylhexyl)phthalate	U	3 7
Di n-octylphthalate	U	3 7
Benzo(b)fluoranthene	85	0 73
Benzo(k)fluoranthene	30	3 7
Benzo(a)pyrene	45	0 73
Indeno(1 2 3 cd)pyrene	20	0 73
Dibenz(a h)anthracene	8 8	0 73
Benzo(g h i)perylene	1 8	3 7

Surrogates	RECOVERY %	CONTROL LIMITS %
2 Fluorophenol	*	44 84
Phenol-d5	*	38 - 88
Nitrobenzene-d5	*	42 - 102
2 Fluorobiphenyl	*	35 - 102
2 4 6 Tribromophenol	*	37 109
p Terphenyl-d14	*	43 - 119

NOTE Sol es Its are based o dry we ght Key # Rerun U Compo nd not detected J Est mated alue B Analyt p esent blank E Exceeded the range of cal b at on X Q antified from a p e o s run See a rative

ph 23 773 5998
to 8 0 733 5998
f x 3 773 6537

T An lyt l Lab t s In
224 Bl k C k Road
M k g M! 49444 2673
fo@t ac l b m
www t l bs m

TRACE

tl s fc pl a

Mr Ray Spaulding
MDEQ RRD
Project #82001589/Carter Color Coat

Trace ID EE036 05
Sample ID F1 CS3
Batch ID BNA050501S
% Moisture 4 88

Method SW846 8270C
Matrix WAS
DL Multiplier 10
Sample Date 04/28/04
Sample Received 05/04/04
Extraction Date 05/05/04
Analysis Date 05/07/04
Report Date 05/19/04

Semi Volatile Organic Analytes	RESULTS mg/kg	REPORTING LIMIT mg/kg
N Nitrosodimethylamine	U	1 7
bis(2-Chloroethyl)ether	U	0 33
2 Chlorophenol	U	1 7
Phenol	U	1 7
1 3 Dichlorobenzene	U	1 7
1 4 Dichlorobenzene	U	1 7
1 2 Dichlorobenzene	U	1 7
bis(2 Chloroisopropyl)ether	U	1 7
2 Methylphenol	U	1 7
3/4 Methylphenol	U	1 7
N Nitroso di n propylamine	U	1 7
Hexachloroethane	U	1 7
Nitrobenzene	U	0 33
Isophorone	U	1 7
2 Nitrophenol	U	1 7
2 4 Dimethylphenol	U	1 7
bis(2 Chloroethoxy)methane	U	1 7
1 2 4 Trichlorobenzene	U	1 7
2 4 Dichlorophenol	U	1 7
Naphthalene	U	1 7
Hexachloro 1 3 butadiene	U	1 7
4-Chloro 3 methylphenol	U	1 7
2 Methylnaphthalene	U	1 7
Hexachlorocyclopentadiene	U	1 7
2 4 6 Trichlorophenol	U	0 33
2 4 5 Trichlorophenol	U	1 7
2 Chloronaphthalene	U	1 7
2 Nitroaniline	U	1 7
Dimethylphthalate	U	1 7
Acenaphthylene	U	1 7
2 6 Dinitrotoluene	U	1 7
3 Nitroaniline	U	1 7
Acenaphthene	2 8	1 7
Dibenzofuran	4 8	1 7
2 4 Dinitrotoluene	U	1 7
4 Nitrophenol	U	6 7
2 4 Dinitrophenol	U	6 7

NOTE S l res lts a e based on dry weight Key # Rerun U Compo nd not detected J Est mated val e B Analyte p esent n bla k E Exceeded the ange of cal b atio X Q antified from a p evious run See narrative

pho 3 773 5998 T A lyt l L b t s l
ll f 8o 733 5998 2 4 Bl ck C k R d
fax 3 773 6537 M sk g MI 49444 2673
f @t l b m
www t l bs m

TRACE

tl e s f pl

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	10
		Sample Date	04/28/04
Trace ID	EE036 05	**Sample Received**	05/04/04
Sample ID	F1 CS3	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/07/04
% Moisture	4 88	**Report Date**	05/19/04

Semi-Volatile Organic Analytes	**RESULTS mg/kg**	**REPORTING LIMIT mg/kg**
Diethylphthalate	U	1 7
Fluorene	2 4	1 7
4 Chlorophenyl phenylether	U	1 7
4 Nitroaniline	U	1 7
4 6 Dinitro 2 methylphenol	U	1 7
N Nitrosodiphenylamine	U	1 7
Azobenzene	U	1 7
4 Bromophenyl phenylether	U	1 7
Hexachlorobenzene	U	1 7
Pentachlorophenol	U	1 7
Phenanthrene	29	1 7
Anthracene	2 1	1 7
Carbazole	U	1 7
Di n butylphthalate	U	1 7
Fluoranthene	29	1 7
Pyrene	23	1 7
Butylbenzylphthalate	U	1 7
Benzo(a)anthracene	8 1	0 33
Chrysene	9 6	1 7
bis(2 Ethylhexyl)phthalate	U	1 7
Di n octylphthalate	U	1 7
Benzo(b)fluoranthene	9 5	0 33
Benzo(k)fluoranthene	4 0	1 7
Benzo(a)pyrene	3 0	0 33
Indeno(1 2 3 cd)pyrene	2 2	0 33
Dibenz(a h)anthracene	0 92	0 33
Benzo(g h i)perylene	1 9	1 7

Surrogates	**RECOVERY %**	**CONTROL LIMITS %**	
2 Fluorophenol	*	44	84
Phenol-d5	*	38	88
Nitrobenzene-d5	*	42	102
2 Fluorobiphenyl	52	35	102
2 4 6 Tribromophenol	*	37	109
p Terphenyl-d14	63	43	119

NOTE So l esults ar bas d on dry we ght Key # Re u U Compound ot detected J Est mated alue B Analyte p esent n blank E Exceeded th ange of cal brat on X Q antified from a p evious run See nar at ve

pl on 3 773 5998
ll f e 8 o 733 5998
f x 3 773 6537

T An lyt al L b at l
224 Bla k C k R d
M k go MI 49444 2673
nf @t lab om
www t labs m

TRACE

tl s fc pl

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	5 2
		Sample Date	04/28/04
Trace ID	EE036 06	**Sample Received**	05/04/04
Sample ID	SW MU6 CS1	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/10/04
% Moisture	4 24	**Report Date**	05/19/04

Semi Volatile Organic Analytes	**RESULTS mg/kg**		**REPORTING LIMIT mg/kg**
N Nitrosodimethylamine	U		0 88
bis(2 Chloroethyl)ether	U		0 17
2 Chlorophenol	U	*	0 88
Phenol	U	*	0 88
1 3 Dichlorobenzene	U		0 88
1 4 Dichlorobenzene	U		0 88
1 2 Dichlorobenzene	U		0 88
bis(2 Chloroisopropyl)ether	U		0 88
2 Methylphenol	U	*	0 88
3/4 Methylphenol	U	*	0 88
N Nitroso di n propylamine	U		0 88
Hexachloroethane	U		0 88
Nitrobenzene	U		0 17
Isophorone	U		0 88
2 Nitrophenol	U	*	0 88
2 4 Dimethylphenol	U	*	0 88
bis(2-Chloroethoxy)methane	U		0 88
1 2 4 Trichlorobenzene	U		0 88
2 4 Dichlorophenol	U	*	0 88
Naphthalene	U		0 88
Hexachloro 1 3 butadiene	U		0 88
4 Chloro 3 methylphenol	U	*	0 88
2 Methylnaphthalene	U		0 88
Hexachlorocyclopentadiene	U		0 88
2 4 6 Trichlorophenol	U	*	0 33
2 4 5 Trichlorophenol	U	*	0 88
2 Chloronaphthalene	U		0 88
2 Nitroaniline	U		0 88
Dimethylphthalate	0 97		0 88
Acenaphthylene	U		0 88
2 6 Dinitrotoluene	U		0 88
3 Nitroaniline	U		0 88
Acenaphthene	U		0 88
Dibenzofuran	U		0 88
2 4 Dinitrotoluene	U		0 88
4 Nitrophenol	U	*	3 5
2 4 Dinitrophenol	U	*	3 5

NOTE Sol esults are based on dry we ght Key # Re n U Compound not detected J Est mated al e B Analyte p esent blank E Exceeded the ange of cal b at on X Quantified from a p evious un See a rative

ph 23 773 5998 T An lyt al L b at l
t 80 733 5998 2 4 Bl k C k R d
f x 3 773 6537 M k g MI 49444 2673
fo@t l b m
www t l b om

TRACE

rh n f ompl n

Mr Ray Spaulding
MDEQ RRD
Project #82001589/Carter Color Coat

Trace ID	EE036 06	**Method**	SW846 8270C
Sample ID	SW MU6 CS1	**Matrix**	WAS
Batch ID	BNA050501S	**DL Multiplier**	5 2
% Moisture	4 24	**Sample Date**	04/28/04
		Sample Received	05/04/04
		Extraction Date	05/05/04
		Analysis Date	05/10/04
		Report Date	05/19/04

Semi-Volatile Organic Analytes	**RESULTS mg/kg**		**REPORTING LIMIT mg/kg**
Diethylphthalate	U		0 88
Fluorene	U		0 88
4 Chlorophenyl phenylether	U		0 88
4 Nitroaniline	U		0 88
4 6 Dinitro 2 methylphenol	U	*	0 88
N Nitrosodiphenylamine	U		0 88
Azobenzene	U		0 88
4 Bromophenyl phenylether	U		0 88
Hexachlorobenzene	U		0 88
Pentachlorophenol	U		0 88
Phenanthrene	1 5		0 88
Anthracene	U		0 88
Carbazole	U		0 88
Di n butylphthalate	U		0 88
Fluoranthene	2 6		0 88
Pyrene	2 1		0 88
Butylbenzylphthalate	U		0 88
Benzo(a)anthracene	0 95		0 17
Chrysene	1 3		0 88
bis(2 Ethylhexyl)phthalate	1 4		0 88
Di n octylphthalate	U		0 88
Benzo(b)fluoranthene	1 7		0 17
Benzo(k)fluoranthene	U		0 88
Benzo(a)pyrene	1 1		0 17
Indeno(1 2 3-cd)pyrene	0 52		0 17
Dibenz(a h)anthracene	U		0 17
Benzo(g h i)perylene	U		0 88
Surrogates	**RECOVERY %**		**CONTROL LIMITS %**
2 Fluorophenol		*	44 84
Phenol-d5	6 2	*	38 88
Nitrobenzene-d5	67		42 102
2 Fluorobiphenyl	79		35 102
2 4 6 Tribromophenol		*	37 109
p Terphenyl d14	90		43 119

NOTE Soil results are based on dry weight Key # Rerun U Compound not detected J Estimated value B Analyte present in blank E Exceeded the range of calibration X Quantified from a previous run See narrative

k e 3 773 5998 T An lyt al L b t l
ll f 80 733 5998 224 Bl k C k Ro d
f x 3 773 6537 M sk g MI 49444 673
nf @t l b c m
www tr l b m

TRACE

th f c mpl

Mr Ray Spaulding
MDEQ-RRD
Project #82001589/Carter Color Coat

Trace ID EE036 07
Sample ID SW MU6 CS2
Batch ID BNA050501S
% Moisture 2 77

Method SW846 8270C
Matrix WAS
DL Multiplier 2 1
Sample Date 04/28/04
Sample Received 05/04/04
Extraction Date 05/05/04
Analysis Date 05/10/04
Report Date 05/19/04

Semi-Volatile Organic Analytes	RESULTS mg/kg		REPORTING LIMIT mg/kg
N Nitrosodimethylamine	U		0 36
bis(2 Chloroethyl)ether	U		0 069
2 Chlorophenol	U	*	0 36
Phenol	U	*	0 36
1 3 Dichlorobenzene	U		0 36
1 4 Dichlorobenzene	U		0 36
1 2 Dichlorobenzene	U		0 36
bis(2 Chloroisopropyl)ether	U		0 36
2 Methylphenol	U	*	0 36
3/4 Methylphenol	U	*	0 36
N Nitroso-di n propylamine	U		0 36
Hexachloroethane	U		0 36
Nitrobenzene	U		0 069
Isophorone	U		0 36
2 Nitrophenol	U	*	0 36
2 4 Dimethylphenol	U	*	0 36
bis(2 Chloroethoxy)methane	U		0 36
1 2 4 Trichlorobenzene	U		0 36
2 4 Dichlorophenol	U	*	0 36
Naphthalene	U		0 36
Hexachloro 1 3 butadiene	U		0 36
4 Chloro 3 methylphenol	U	*	0 36
2 Methylnaphthalene	U		0 36
Hexachlorocyclopentadiene	U		0 36
2 4 6 Trichlorophenol	U	*	0 33
2 4 5 Trichlorophenol	U	*	0 36
2 Chloronaphthalene	U		0 36
2 Nitroaniline	U		0 36
Dimethylphthalate	U		0 36
Acenaphthylene	U		0 36
2 6 Dinitrotoluene	U		0 36
3 Nitroaniline	U		0 36
Acenaphthene	U		0 36
Dibenzofuran	U		0 36
2 4 Dinitrotoluene	U		0 36
4 Nitrophenol	U	*	1 7
2 4 Dinitrophenol	U	*	1 7

NOTE Sol es lts a e based on dry weight Key # Rerun U Compo nd ot detected J Estimated al B Analyte p esent blank E Exceeded the range of cal b at o X Quantified f om a pre ious un See narrative

ah n 3 773 5998
t ll f 8 733 5998
f x 3 773 6537

T A lyt al L b t s In
4 Bl k C k R d
M k g MI 49444 2673
f @t l bs m
www tr ce labs m

TRACE

th s n f mpl c

Mr Ray Spaulding
MDEQ RRD
Project #82001589/Carter Color Coat

Trace ID EE036 07
Sample ID SW MU6 CS2
Batch ID BNA050501S
% Moisture 2 77

Method SW846 8270C
Matrix WAS
DL Multiplier 2 1
Sample Date 04/28/04
Sample Received 05/04/04
Extraction Date 05/05/04
Analysis Date 05/10/04
Report Date 05/19/04

Semi Volatile Organic Analytes	RESULTS mg/kg		REPORTING LIMIT mg/kg
Diethylphthalate	U		0 36
Fluorene	U		0 36
4 Chlorophenyl phenylether	U		0 36
4 Nitroaniline	U		0 36
4 6 Dinitro 2 methylphenol	U	*	0 36
N Nitrosodiphenylamine	U		0 36
Azobenzene	U		0 36
4 Bromophenyl phenylether	U		0 36
Hexachlorobenzene	U		0 36
Pentachlorophenol	U	*	0 36
Phenanthrene	U		0 36
Anthracene	U		0 36
Carbazole	U		0 36
Di n butylphthalate	U		0 36
Fluoranthene	U		0 36
Pyrene	U		0 36
Butylbenzylphthalate	U		0 36
Benzo(a)anthracene	U		0 069
Chrysene	U		0 36
bis(2 Ethylhexyl)phthalate	U		0 36
Di n-octylphthalate	U		0 36
Benzo(b)fluoranthene	U		0 069
Benzo(k)fluoranthene	U		0 36
Benzo(a)pyrene	U		0 069
Indeno(1 2 3 cd)pyrene	U		0 069
Dibenz(a h)anthracene	U		0 069
Benzo(g h i)perylene	U		0 36

Surrogates	RECOVERY %		CONTROL LIMITS %	
2 Fluorophenol		*	44	84
Phenol-d5	23	*	38	88
Nitrobenzene-d5	70		42	102
2 Fluorobiphenyl	74		35	102
2 4 6 Tribromophenol		*	37	109
p Terphenyl d14	78		43	119

NOTE Sol es its are based dry weight Key # Reru U Compo d not detected J Est mated valu B Analyte p ese t n blank E Exceeded the range of calibration X Q antif ed from a p evious run See ar ative

3 773 5998 Ta An lyt l L b t In
8 733 5998 2 4 Bl k C k Ro d
3 773 6537 M k g Ml 49444 673
f @t ce labs m
www t c labs m

TRACE

th A f compl

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	5 1
		Sample Date	04/28/04
Trace ID	EE036 08	**Sample Received**	05/04/04
Sample ID	SW MU5 CS2	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/11/04
% Moisture	2 42	**Report Date**	05/19/04

Semi Volatile Organic Analytes	RESULTS mg/kg		REPORTING LIMIT mg/kg
N Nitrosodimethylamine	U		0 87
bis(2 Chloroethyl)ether	U		0 17
2 Chlorophenol	U	*	0 87
Phenol	U	*	0 87
1 3 Dichlorobenzene	U		0 87
1 4 Dichlorobenzene	U		0 87
1 2 Dichlorobenzene	U		0 87
bis(2 Chloroisopropyl)ether	U		0 87
2 Methylphenol	U	*	0 87
3/4 Methylphenol	U		0 87
N Nitroso di n propylamine	U		0 87
Hexachloroethane	U		0 87
Nitrobenzene	U		0 17
Isophorone	U		0 87
2 Nitrophenol	U	*	0 87
2 4 Dimethylphenol	U	*	0 87
bis(2 Chloroethoxy)methane	U		0 87
1 2 4 Trichlorobenzene	U		0 87
2 4 Dichlorophenol	U	*	0 87
Naphthalene	U		0 87
Hexachloro 1 3 butadiene	U		0 87
4-Chloro-3 methylphenol	U	*	0 87
2 Methylnaphthalene	U		0 87
Hexachlorocyclopentadiene	U		0 87
2 4 6 Trichlorophenol	U	*	0 33
2 4 5 Trichlorophenol	U	*	0 87
2 Chloronaphthalene	U		0 87
2 Nitroaniline	U		0 87
Dimethylphthalate	U		0 87
Acenaphthylene	U		0 87
2 6 Dinitrotoluene	U		0 87
3 Nitroaniline	U		0 87
Acenaphthene	U		0 87
Dibenzofuran	U		0 87
2 4 Dinitrotoluene	U		0 87
4 Nitrophenol	U	*	3 4
2 4 Dinitrophenol	U	*	3 4

NOTE S I results a based o dry we ght Key # Reru U Compou d ot detected J Est mated val e B Analyte present n blank E Exceeded the ange of cal b ation X Quantified from a p evio s run See arrative

ph n 3 773 5998 T A lyt I Lab t s In
Toll f 8 733 5998 4 Black C k R d
f x 3 773 6537 Muskeg MI 49444 673
f @t lab m
www t l b m

TRACE

the s f c mpl c

Mr Ray Spaulding		**Method**	SW846 8270C
MDEQ RRD		**Matrix**	WAS
Project	**#82001589/Carter Color Coat**	**DL Multiplier**	5 1
		Sample Date	04/28/04
Trace ID	EE036 08	**Sample Received**	05/04/04
Sample ID	SW MU5 CS2	**Extraction Date**	05/05/04
Batch ID	BNA050501S	**Analysis Date**	05/11/04
% Moisture	2 42	**Report Date**	05/19/04

Semi-Volatile Organic Analytes	**RESULTS mg/kg**		**REPORTING LIMIT mg/kg**
Diethylphthalate	U		0 87
Fluorene	U		0 87
4 Chlorophenyl phenylether	U		0 87
4 Nitroaniline	U		0 87
4 6 Dinitro 2 methylphenol	U	*	0 87
N Nitrosodiphenylamine	U		0 87
Azobenzene	U		0 87
4 Bromophenyl phenylether	U		0 87
Hexachlorobenzene	U		0 87
Pentachlorophenol	U	*	0 87
Phenanthrene	U		0 87
Anthracene	U		0 87
Carbazole	U		0 87
Di n butylphthalate	U		0 87
Fluoranthene	U		0 87
Pyrene	U		0 87
Butylbenzylphthalate	U		0 87
Benzo(a)anthracene	U		0 17
Chrysene	U		0 87
bis(2 Ethylhexyl)phthalate	U		0 87
Di n octylphthalate	U		0 87
Benzo(b)fluoranthene	U		0 17
Benzo(k)fluoranthene	U		0 87
Benzo(a)pyrene	U		0 17
Indeno(1 2 3 cd)pyrene	U		0 17
Dibenz(a h)anthracene	U		0 17
Benzo(g h i)perylene	U		0 87
Surrogates	**RECOVERY %**		**CONTROL LIMITS %**
2 Fluorophenol		*	44 84
Phenol d5	7 1	*	38 88
Nitrobenzene d5	72		42 102
2 Fluorobiphenyl	85		35 102
2 4 6 Tribromophenol		*	37 109
p Terphenyl-d14	86		43 119

NOTE So l res lts are bas d on dry weight Key # Re un U Compou d ot detected J Est mated value B Analyte present in blank E Exceeded the range of cal bratio X Quant fied from a prev ous un See na rative

Quality Control Results

pho 3 773 5998 T Analyt l L b at s l
ll f 800 733 5998 24 Bl k C k R d
f x 3 773 6537 M k g MI 49444 2673
nf @t a l bs m
www t c l bs c m

TRACE

tl s f mplianc

Mr Ray Spaulding
MDEQ-RRD
Project #82001589/Carter Color Coat

Trace ID EE036 SB050501
Sample ID Method Blank
Batch ID BNA050501S
% Moisture

Method SW846 8270C
Matrix WAS
DL Multiplier 1 0
Sample Date NA
Sample Received NA
Extraction Date 05/05/04
Analysis Date 05/11/04
Report Date 05/19/04

Semi-Volatile Organic Analytes	RESULTS mg/kg	REPORTING LIMIT mg/kg
N Nitrosodimethylamine	U	0 33
bis(2-Chloroethyl)ether	U	0 066
2 Chlorophenol	U	0 33
Phenol	U	0 33
1 3 Dichlorobenzene	U	0 33
1 4 Dichlorobenzene	U	0 33
1 2 Dichlorobenzene	U	0 33
bis(2 Chloroisopropyl)ether	U	0 33
2 Methylphenol	U	0 33
3/4 Methylphenol	U	0 33
N Nitroso di n propylamine	U	0 33
Hexachloroethane	U	0 33
Nitrobenzene	U	0 066
Isophorone	U	0 33
2 Nitrophenol	U	0 33
2 4 Dimethylphenol	U	0 33
bis(2 Chloroethoxy)methane	U	0 33
1 2 4 Trichlorobenzene	U	0 33
2 4 Dichlorophenol	U	0 33
Naphthalene	U	0 33
Hexachloro 1 3 butadiene	U	0 33
4 Chloro 3 methylphenol	U	0 33
2 Methylnaphthalene	U	0 33
Hexachlorocyclopentadiene	U	0 33
2 4 6 Trichlorophenol	U	0 33
2 4 5 Trichlorophenol	U	0 33
2 Chloronaphthalene	U	0 33
2 Nitroaniline	U	0 33
Dimethylphthalate	U	0 33
Acenaphthylene	U	0 33
2 6 Dinitrotoluene	U	0 33
3 Nitroaniline	U	0 33
Acenaphthene	U	0 33
Dibenzofuran	U	0 33
2 4 Dinitrotoluene	U	0 33
4 Nitrophenol	U	1 7

NOTE So l res lts are based on dry weight Key # Rerun U Compo d not det cted J Est mated value B Analyte p ese t blank E Exceeded the range of cal brat on X Quantified from a previous run See narrative

ph 3 773 5998
toll f 8 o 733 5998
f x 3 773 6537

T An lyt l L b at A l
2 4 Bla k C k Road
M skego MI 49444 673
f @t l b com
www t l b com

TRACE

th nc f pl

Mr Ray Spaulding
MDEQ RRD
Project #82001589/Carter Color Coat

Trace ID EE036 SB050501
Sample ID Method Blank
Batch ID BNA050501S
% Moisture

Method SW846 8270C
Matrix WAS
DL Multiplier 1 0
Sample Date NA
Sample Received NA
Extraction Date 05/05/04
Analysis Date 05/11/04
Report Date 05/19/04

Semi-Volatile Organic Analytes	RESULTS mg/kg	REPORTING LIMIT mg/kg
2 4 Dinitrophenol	U	1 7
Diethylphthalate	U	0 33
Fluorene	U	0 33
4 Chlorophenyl phenylether	U	0 33
4 Nitroaniline	U	0 33
4 6 Dinitro 2 methylphenol	U	0 33
N Nitrosodiphenylamine	U	0 33
Azobenzene	U	0 33
4 Bromophenyl phenylether	U	0 33
Hexachlorobenzene	U	0 33
Pentachlorophenol	U	0 33
Phenanthrene	U	0 33
Anthracene	U	0 33
Carbazole	U	0 33
Di n butylphthalate	U	0 33
Fluoranthene	U	0 33
Pyrene	U	0 33
Butylbenzylphthalate	U	0 33
Benzo(a)anthracene	U	0 066
Chrysene	U	0 33
bis(2 Ethylhexyl)phthalate	U	0 33
Di n-octylphthalate	U	0 33
Benzo(b)fluoranthene	U	0 066
Benzo(k)fluoranthene	U	0 33
Benzo(a)pyrene	U	0 066
Indeno(1 2 3 cd)pyrene	U	0 066
Dibenz(a h)anthracene	U	0 066
Benzo(g h i)perylene	U	0 33

Surrogates	RECOVERY %	CONTROL LIMITS %	
2 Fluorophenol	67	44	84
Phenol-d5	60	38	88
Nitrobenzene d5	61	42	102
2 Fluorobiphenyl	63	35	102
2 4 6 Tribromophenol	70	37	109
p Terphenyl-d14	65	43	119

NOTE So l results are based o dry we ght Key # Rerun U Compound ot detected J Est mated alue B Analyte p esent n blank E Exceeded the range of cal b ation X Quantified from a p evious un See a rat ve

phon 3 773 5998 T An lyt l L b t l
f 80 733 5998 224 Bl ck C k R d
f x 3 773 6537 Musk g MI 49444 2673
f @t l b m
www t c l b m

TRACE

tl s f mpl

Laboratory Control Spike Recovery and RPD Summary Report

Trace ID	SS050501/SSD050501	Analyst Initials	TC
QC Batch ID	BNA 050501S	Matrix	SOIL
Analytical Batch	H511004	Method Number	8270
Extraction Date	5 5-04	Client	MDEQ
Analysis Date	5 11 04	MS Multiplier	1 00
		MSD Multiplier	1 00

Compound Name	Blank Conc mg/kg	LCS Spk Added mg/kg	LCSD Spk Added mg/kg	LCS Final mg/kg	LCSD Final mg/kg	LCS %Rec	LCSD %Rec	RPD	QC Limits RPD	QC Limits %Rec
2 Chlorophenol	0 00	3 3	3 3	2 3	2 1	71	64	10 5	24	47 95
Phenol	0 00	3 3	3 3	2 2	1 9	66	58	13 1	22	44 85
1 4-Dichlorobenzene	0 00	1 7	1 7	1 2	1 1	69	65	5 9	23	44 89
N Nitroso-di n-propylamine	0 00	1 7	1 7	1 3	1 3	78	76	2 5	25	34 106
1 2 4-Trichlorobenzene	0 00	1 7	1 7	1 3	1 2	75	71	5 4	24	45 92
4 Chloro-3-methylphenol	0 00	3 3	3 3	2 4	2 3	72	70	2 9	28	40 97
Acenaphthene	0 00	1 7	1 7	1 3	1 3	78	75	5 1	26	44 97
2 4-Dinitrotoluene	0 00	1 7	1 7	1 4	1 3	80	78	2 5	25	46 92
4-Nitrophenol	0 00	3 3	3 3	2 6	2 5	80	76	5 2	27	22 104
Pentachlorophenol	0 00	3 3	3 3	2 2	2 1	68	65	4 6	24	38 103
Pyrene	0 00	1 7	1 7	1 3	1 2	76	73	5 3	21	59 105

Surrogates	Amount Added	LCS Conc	LCSD Conc	LCS %Rec	LCSD %Rec	QC Limits % Rec
2 Fluorophenol	100	68	67	68	67	44 84
Phenol-d5	100	64	64	64	64	38-88
Nitrobenzene-d5	100	68	70	68	70	42 102
2 Fluorobiphenyl	100	70	73	70	73	35 102
2,4,6-Tribromophenol	100	80	79	80	79	37 109
p-Terphenyl-d14	100	72	73	72	73	43 119

phone 3 773 5998
t f 8 733 5998
fax 23 773 6537

T A alyt l L b t s In
224 Bl k C k R d
M sk g n MI 49444 673
nf @t e l b m
www t ce l b com

TRACE

th s f mpl nc

Matrix Spike Recovery and RPD Summary Report

Trace ID EE036 01 MS/MSD
QC Batch ID BNA 050501S
Analytical Batch H510004
Extraction Date 5 5-04
Analysis Date 5 10-04

Analyst Initials TC
Matrix SOIL
Method Number 8270
Client MDEQ
MS Multiplier 1 08 3 6112
MSD Multiplier 1 08 3 616

Compound Name	Sample Conc mg/kg	MS Spk Added mg/kg	MSD Spk Added mg/kg	MS Final mg/kg	MSD Final mg/kg	MS %Rec	MSD %Rec	RPD	QC Limits RPD	QC Limits %Rec
2 Chlorophenol	0 00	3 6	3 6						20	46-92
Phenol	0 00	3 6	3 6						19	39 90
1 4 Dichlorobenzene	0 00	1 8	1 8						24	37 85
N Nitroso di n propylamine	0 00	1 8	1 8						25	32 104
1 2 4-Trichlorobenzene	0 00	1 8	1 8						22	28 111
4-Chloro 3 methylphenol	0 00	3 6	3 6						20	41 96
Acenaphthene	0 00	1 8	1 8						26	41 94
2 4-Dinitrotoluene	0 00	1 8	1 8						22	22 120
4-Nitrophenol	0 00	3 6	3 6						22	22 124
Pentachlorophenol	0 00	3 6	3 6						25	18 137
Pyrene	0 00	1 8	1 8						31	24-126

Surrogates	Amount Added	MS Conc	MSD Conc	MS %Rec	MSD %Rec	QC Limits % Rec
2 Fluorophenol	100					44 84
Phenol-d5	100					38-88
Nitrobenzene-d5	100					42 102
2 Fluorobiphenyl	100					35-102
2 4 6-Tribromophenol	100					37 109
p-Terphenyl-d14	100					43-119

* = see narrative below

Matrix QC results are unavailable for this sample and QC batch as a dilution of the sample was required due to high analyte concentrations