



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

May 19, 2015

Thomas Poth
Eden Research Laboratory
2111 Menaul NE
Suite A
Albuquerque, NM 87107
TEL: (505) 508-3994
FAX:

RE: Palziv North America

Dear Thomas Poth:

Order No.: 15050590

Summit Environmental Technologies, Inc. received 2 sample(s) on 5/6/2015 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Dr. Mo Osman
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

CC:
Michele LaMori

A2LA 0724.01, Alabama 41600, Arizona AZ0788, Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0105, Delaware, Florida NELAC E87688, Georgia E87688 and 943, Idaho OH00923, Illinois 200061 and Reg.5, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Louisiana 04061 and LA12004, Maine 2012015, Maryland 339, Massachusetts M-OPH923, Minnesota 409711, Montana CERT0099, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, Ohio Drinking Water 4170, Ohio VAP CL0052, Oklahoma 9940, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Tennessee TN04018, Texas T104704466-11-5, Region 8 8TMS-L, USDA/APHIS P330-11-00244, Utah OH009232011-1, Vermont VT-87688, Virginia 00440 and 1581, Washington C891, West Virginia 248 and 9957C and E87688, Wisconsin 399013010



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Case Narrative

WO#: 15050590
Date: 5/19/2015

CLIENT: Eden Research Laboratory
Project: Palziv North America

This report in its entirety consists of the documents listed below. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Paginated Report including Cover Letter, Case Narrative, Analytical Results, Applicable Quality Control Summary Reports, and copies of the Chain of Custody Documents are supplied with this sample set.

Concentrations reported with a J-Flag in the Qualifier Field are values below the Limit of Quantitation (LOQ) but greater than the established Method Detection Limit (MDL).

Method numbers, unless specified as SM (Standard Methods) or ASTM, are EPA methods.

Estimated uncertainty values are available upon request.

Analysis performed by DBM, VRM, or SFG were performed at Summit Labs 2704 Eatonton Highway Haddock, GA 31033

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

This report is believed to meet all of the requirements of NELAC or the accrediting / certifying agency. Any comments or problems with the analytical events associated with this report are noted below.

Project Notes: Samples submitted by Eden Research Laboratory for Palziv North America, 7966 NC 56



SUMMIT
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Analytical Laboratories

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Case Narrative

WO#: **15050590**

Date: **5/19/2015**

CLIENT: Eden Research Laboratory

Project: Palziv North America

Hwy, Louisburg, NC 27549.

Report Revised May 13, 2015

·Client Sample ID revised per client request.

acs

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B/MB+	The analyte was detected in the associated blank.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor
DF	Dilution Factor	RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



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Workorder
Sample Summary
WO#: **15050590**
19-May-15

CLIENT: Eden Research Laboratory
Project: Palziv North America

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
15050590-001	Eco Cork Foam Underlayment		5/5/2015 6:00:00 PM	5/6/2015 10:30:00 AM	Solid
15050590-002	Carpet Cork Cushion		5/5/2015 6:00:00 PM	5/6/2015 10:30:00 AM	Solid



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WO#: **15050590**
 Date Reported: **5/19/2015**
 Company: Eden Research Laboratory
 Address: 2111 Menaul NE
 Albuquerque NM 87107
 Received: 5/6/2015
 Project#: Palziv North Am

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
Eco Cork Foam Underlayment	001	5/5/2015	Butyl benzyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Chrysene	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Di-n-butyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Diethyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Dimethyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	4.82	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Fluoranthene	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Naphthalene	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Phenanthrene	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Phenol	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Pyrene	ND	mg/Kg	Solid	EPA 8270 C	1	1.93	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Surr: 2,4,6-Tribromophenol	101	%REC	Solid	EPA 8270 C	1	13-125	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Surr: 2-Fluorobiphenyl	52.6	%REC	Solid	EPA 8270 C	1	10-110	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Surr: 2-Fluorophenol	52.5	%REC	Solid	EPA 8270 C	1	14-110	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Surr: Nitrobenzene-d5	45.7	%REC	Solid	EPA 8270 C	1	11-110	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Surr: p-Terphenyl-d14	112	%REC	Solid	EPA 8270 C	1	14-145	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	Surr: Phenol-d6	58.1	%REC	Solid	EPA 8270 C	1	5-110	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	SVOC TICs	ND	mg/Kg	Solid	EPA 8270 D	1	0	5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: Benzophenone	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: Benzothiazole	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: Bis (3-chloropropyl)(1-chloropropyl) phosphate	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: Dimethylnaphthalenes	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: Fryol fr 2	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: KP 140	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: Trimethylnaphthalenes	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Eco Cork Foam Underlayment	001	5/5/2015	TIC: Tris(2,3-dichloropropanol) phosphate	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE



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WO#: **15050590**
 Date Reported: **5/19/2015**
 Company: Eden Research Laboratory
 Address: 2111 Menaul NE
 Albuquerque NM 87107
 Received: 5/6/2015
 Project#: Palziv North Am

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
Eco Cork Foam Underlayment	001	5/5/2015	Chloroform	ND	mg/Kg	Solid	EPA 8260 B	10	0.0500	5/7/2015	MES
Eco Cork Foam Underlayment	001	5/5/2015	Toluene	ND	mg/Kg	Solid	EPA 8260 B	10	0.0500	5/7/2015	MES
Eco Cork Foam Underlayment	001	5/5/2015	Surr: 4-Bromofluorobenzene	74.0	%REC	Solid	EPA 8260 B	10	70-130	5/7/2015	MES
Eco Cork Foam Underlayment	001	5/5/2015	Surr: Dibromofluoromethane	100	%REC	Solid	EPA 8260 B	10	70-130	5/7/2015	MES
Eco Cork Foam Underlayment	001	5/5/2015	Surr: Toluene-d8	85.7	%REC	Solid	EPA 8260 B	10	70-130	5/7/2015	MES



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Date Reported: **5/19/2015**
Company: Eden Research Laboratory
Address: 2111 Menaul NE
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Received: 5/6/2015
Project#: Palziv North Am

Client ID#	Lab ID#	Collected	Analyte	Result	Units	Matrix	Method	DF	RL	Run	Analyst
Carpet Cork Cushion	002	5/5/2015	Butyl benzyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Chrysene	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Di-n-butyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Diethyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Dimethyl phthalate	ND	mg/Kg	Solid	EPA 8270 C	1	4.78	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Fluoranthene	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Naphthalene	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Phenanthrene	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Phenol	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Pyrene	ND	mg/Kg	Solid	EPA 8270 C	1	1.91	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Surr: 2,4,6-Tribromophenol	84.2	%REC	Solid	EPA 8270 C	1	13-125	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Surr: 2-Fluorobiphenyl	42.8	%REC	Solid	EPA 8270 C	1	10-110	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Surr: 2-Fluorophenol	45.2	%REC	Solid	EPA 8270 C	1	14-110	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Surr: Nitrobenzene-d5	36.7	%REC	Solid	EPA 8270 C	1	11-110	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Surr: p-Terphenyl-d14	95.2	%REC	Solid	EPA 8270 C	1	14-145	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Surr: Phenol-d6	49.7	%REC	Solid	EPA 8270 C	1	5-110	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	SVOC TICs	ND	mg/Kg	Solid	EPA 8270 D	1	0	5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: Benzophenone	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: Benzothiazole	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: Bis(3-chloropropyl)(1-chloropropyl) phosphate	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: Dimethylnaphthalenes	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: Fryol fr 2	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: KP 140	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: Trimethylnaphthalenes	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	TIC: Tris(2,3-dichloropropanol) phosphate	ND	mg/Kg	Solid	EPA 8270 D	1		5/8/2015	AKE
Carpet Cork Cushion	002	5/5/2015	Chloroform	ND	mg/Kg	Solid	EPA 8260 B	10	0.0500	5/7/2015	MES
Carpet Cork Cushion	002	5/5/2015	Toluene	ND	mg/Kg	Solid	EPA 8260 B	10	0.0500	5/7/2015	MES
Carpet Cork Cushion	002	5/5/2015	Surr: 4-Bromofluorobenzene	72.3	%REC	Solid	EPA 8260 B	10	70-130	5/7/2015	MES
Carpet Cork Cushion	002	5/5/2015	Surr: Dibromofluoromethane	104	%REC	Solid	EPA 8260 B	10	70-130	5/7/2015	MES
Carpet Cork Cushion	002	5/5/2015	Surr: Toluene-d8	84.4	%REC	Solid	EPA 8260 B	10	70-130	5/7/2015	MES



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QC SUMMARY REPORT

WO#: 15050590
 19-May-15

Client: Eden Research Laboratory
Project: Palziv North America

BatchID: 12813

Sample ID	MB-12813	SampType:	MBLK	TestCode:	SVOC-Mstr_	Units:	mg/Kg	Prep Date:	5/8/2015	RunNo:	36965			
Client ID:	PBS	Batch ID:	12813	TestNo:	SW8270C	SW3550C		Analysis Date:	5/8/2015	SeqNo:	531810			
Analyte		Result		PQL		SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Butyl benzyl phthalate		ND		0.200										
Chrysene		ND		0.200										
Di-n-butyl phthalate		ND		0.200										
Diethyl phthalate		ND		0.200										
Dimethyl phthalate		ND		0.500										
Fluoranthene		ND		0.200										
Naphthalene		ND		0.200										
Phenanthrene		ND		0.200										
Phenol		ND		0.200										
Pyrene		ND		0.200										
Surr: 2,4,6-Tribromophenol		2.00				3.300		60.5	13	125				
Surr: 2-Fluorobiphenyl		1.88				3.300		57.0	10	110				
Surr: 2-Fluorophenol		1.51				3.300		45.9	14	110				
Surr: Nitrobenzene-d5		1.58				3.300		47.9	11	110				
Surr: p-Terphenyl-d14		1.82				3.300		55.2	14	135				
Surr: Phenol-d6		1.67				3.300		50.6	5	110				

Sample ID	LCS-12813	SampType:	LCS	TestCode:	SVOC-Mstr_	Units:	mg/Kg	Prep Date:	5/8/2015	RunNo:	36965			
Client ID:	LCSS	Batch ID:	12813	TestNo:	SW8270C	SW3550C		Analysis Date:	5/8/2015	SeqNo:	531811			
Analyte		Result		PQL		SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol		1.83		0.200		3.300	0	55.5	5	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected at the Reporting Limit	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 15050590

19-May-15

Client: Eden Research Laboratory
Project: Palziv North America

BatchID: 12813

Sample ID	LCS-12813	SampType:	LCS	TestCode:	SVOC-Mstr_	Units:	mg/Kg	Prep Date:	5/8/2015	RunNo:	36965			
Client ID:	LCSS	Batch ID:	12813	TestNo:	SW8270C		SW3550C	Analysis Date:	5/8/2015	SeqNo:	531811			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene		2.84		0.200	3.300	0		85.9	5	161				
Surr: 2,4,6-Tribromophenol		2.99			3.300			90.5	13	125				
Surr: 2-Fluorobiphenyl		1.95			3.300			59.1	10	110				
Surr: 2-Fluorophenol		1.94			3.300			58.7	14	110				
Surr: Nitrobenzene-d5		1.79			3.300			54.2	11	110				
Surr: p-Terphenyl-d14		2.29			3.300			69.4	14	135				
Surr: Phenol-d6		2.09			3.300			63.4	5	110				

Sample ID	15050590-001AMS	SampType:	MS	TestCode:	SVOC-Mstr_	Units:	mg/Kg	Prep Date:	5/8/2015	RunNo:	36965			
Client ID:	Eco Cork Foam Und	Batch ID:	12813	TestNo:	SW8270C		SW3550C	Analysis Date:	5/8/2015	SeqNo:	531812			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol		15.8		1.99	32.89	0		48.0	5	110				
Pyrene		21.2		1.99	32.89	0		64.5	5	161				
Surr: 2,4,6-Tribromophenol		32.6			32.89			99.1	13	125				
Surr: 2-Fluorobiphenyl		14.6			32.89			44.5	10	110				
Surr: 2-Fluorophenol		17.0			32.89			51.6	14	110				
Surr: Nitrobenzene-d5		13.7			32.89			41.8	11	110				
Surr: p-Terphenyl-d14		30.3			32.89			92.1	14	135				
Surr: Phenol-d6		18.3			32.89			55.7	5	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected at the Reporting Limit	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **15050590**
19-May-15

Client: Eden Research Laboratory
Project: Palziv North America

BatchID: 12813

Sample ID	15050590-001AMSD	SampType:	MSD	TestCode:	SVOC-Mstr_	Units:	mg/Kg	Prep Date:	5/8/2015	RunNo:	36965
Client ID:	Eco Cork Foam Und	Batch ID:	12813	TestNo:	SW8270C		SW3550C	Analysis Date:	5/8/2015	SeqNo:	531813
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	16.7	1.97	32.57	0	51.2	5	110	15.78	5.41	30	
Pyrene	19.5	1.97	32.57	0	59.8	5	161	21.20	8.55	30	
Surr: 2,4,6-Tribromophenol	31.9		32.57		98.1	13	125		0	30	
Surr: 2-Fluorobiphenyl	15.2		32.57		46.8	10	110		0	30	
Surr: 2-Fluorophenol	16.8		32.57		51.6	14	110		0	30	
Surr: Nitrobenzene-d5	13.9		32.57		42.8	11	110		0	30	
Surr: p-Terphenyl-d14	36.2		32.57		111	14	135		0	30	
Surr: Phenol-d6	18.6		32.57		57.1	5	110		0	30	
TIC: 3,3-Dimethylbenzidine	ND		0	0	0	0	0	0	0	0	QC-
TIC: D-Limonene	ND		0	0	0	0	0	0	0	0	
TIC: Methacrylonitrile	ND		0	0	0	0	0	0	0	0	QC-
TIC: Propionitrile	ND	0	0	0	0	0	0	0	0	0	QC-

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
	MC Value is below Minimum Compound Limit.	ND Not Detected at the Reporting Limit	O RSD is greater than RSDlimit
	P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits



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 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 15050590

19-May-15

Client: Eden Research Laboratory

Project: Palziv North America

BatchID: R36832

Sample ID	LCS ABS 050415 2	SampType: LCS	TestCode: VOC-MSTR_s	Units: mg/Kg	Prep Date:	RunNo: 36832					
Client ID:	LCSS	Batch ID: R36832	TestNo: SW8260B	Analysis Date: 5/7/2015	SeqNo: 529373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.0207	0.00500	0.0200	0	103	65	136				
Surr: 4-Bromofluorobenzene	49.4		50.00		98.9	58	127				
Surr: Dibromofluoromethane	49.8		50.00		99.5	58	127				
Surr: Toluene-d8	50.3		50.00		101	83	111				

Sample ID	MBLK	SampType: MBLK	TestCode: VOC-MSTR_s	Units: mg/Kg	Prep Date:	RunNo: 36832					
Client ID:	PBS	Batch ID: R36832	TestNo: SW8260B	Analysis Date: 5/7/2015	SeqNo: 529373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.00500									
Toluene	ND	0.00500									
Surr: 4-Bromofluorobenzene	48.3		50.00		96.5	70	130				
Surr: Dibromofluoromethane	49.4		50.00		98.9	70	130				
Surr: Toluene-d8	49.6		50.00		99.3	70	130				

Sample ID	15050525-016AMS	SampType: MS	TestCode: VOC-MSTR_	Units: mg/Kg	Prep Date:	RunNo: 36832					
Client ID:	BatchQC	Batch ID: R36832	TestNo: SW8260B	Analysis Date: 5/8/2015	SeqNo: 529387						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.799	0.250	1.00	0.107	69.2	62	141				

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
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	MC Value is below Minimum Compound Limit.	ND Not Detected at the Reporting Limit	O RSD is greater than RSDlimit
	P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **15050590**
19-May-15

Client: Eden Research Laboratory
Project: Palziv North America

BatchID: R36832

Sample ID 15050525-016AMS	SampType: MS	TestCode: VOC-MSTR_	Units: mg/Kg	Prep Date:	RunNo: 36832						
Client ID: BatchQC	Batch ID: R36832	TestNo: SW8260B	Analysis Date: 5/8/2015	SeqNo: 529387							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	7100		7500		94.7	58	127				
Surr: Dibromofluoromethane	17000		15000		113	58	127				
Surr: Toluene-d8	6790		7500		90.5	83	111				

Sample ID 15050525-016AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: mg/Kg	Prep Date:	RunNo: 36832						
Client ID: BatchQC	Batch ID: R36832	TestNo: SW8260B	Analysis Date: 5/8/2015	SeqNo: 529388							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.806	0.250	1.00	0.107	70.0	62	141	0.799	0.934	30	
Surr: 4-Bromofluorobenzene	7550		7500		101	58	127		0	30	
Surr: Dibromofluoromethane	18600		15000		124	83	111		0	30	S
Surr: Toluene-d8	7270		7500		96.9	58	127		0	30	

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
	MC Value is below Minimum Compound Limit.	ND Not Detected at the Reporting Limit	O RSD is greater than RSDlimit
	P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

