

November 4, 2004

Mr. Nnamdi Madakor Department of Ecology P.O. Box 47600 Olympia WA 98504

> Letter Report Bi-annual Performance Monitoring Former Magic Cleaners TCP ID #0081 URS Job No. 33756663

Dear Mr. Madakor

INTRODUCTION AND BACKGROUND

Provided herein are the results of the biannual groundwater monitoring conducted at the Former Magic Cleaners site located in Lake Forest Park, Washington. This letter report includes a brief description of the site background and results of the groundwater monitoring conducted during seasonally low groundwater levels. The prior performance monitoring results were provided in URS Corporation (URS) letter report dated March 17, 2004.

Two Density Driven Convection (DDC) well systems were installed at the subject property (Figure 1) in the summer of 2001 and operations were initiated in October 2001 (Figure 1). URS has operated and maintained the system since its construction. Following the system installation, bi-annual monitoring of wells MW-3 and MW-6 was implemented as recommended in the URS Voluntary Cleanup and Performance Monitoring report dated March 2003. Per Ecology's letter dated January 29, 2004, sampling of monitoring wells MW-2, MW-4 and MW-5 was incorporated into the performance monitoring program. The bi-annual sampling events are conducted in the winter and summer to correspond to the seasonal high and low water table conditions, respectively.

GROUNDWATER MONITORING RESULTS

Groundwater sampling was conducted on August 11, 2004 using low flow sampling methods in accordance with EPA guidance. Groundwater water level measurements and water quality parameters were recorded on sampling logs which are provided in Appendix A. A groundwater sample could not be obtained from MW-2 due to the apparent infiltration of tree roots from an adjacent tree. Subsequently, URS retained Cascade Drilling on September 20th to remove the blockage and redevelop the well. Following the successful redevelopment of the well, a groundwater sample was collected from MW-2. Groundwater samples were collected directly into laboratory supplied glassware and were immediately placed in a cooler containing blue-ice. The samples were submitted to North Creek Analytical of Bothell, Washington, under chain-of-custody protocol. The samples were analyzed for volatile organic compounds (VOC) using EPA Method 8260B. The laboratory analytical report is provided in Appendix B.

URS Corporation 1501 4th Avenue, Suite 1400 Seattle, WA 98101-1616 Tel: 206.438.2700 Fax: 206.438.2699



Washington Dept. of Ecology November 3, 2004 Page 2

Groundwater levels are summarized in Table 1 and the analytical results are summarized in Table 2.

CONCLUSIONS

Based on the results of the performance monitoring conducted in the summer of 2004, URS concludes the following:

- The levels of PCE and its degradation products are generally stable or declining.
- URS will maintain the operation of the DDC systems and will schedule the next round of performance monitoring for January 2005.

URS trusts this letter report meets your requirements. Should you have any questions or require further information regarding this report please contact me at (206) 438-2284.

Respectfully submitted,

URS CORPORATION

David Raubvogel

Senior Geologist

Attachments: Appendices A and B Tables 1 and 2 Figure 1

Copy: Rebecca Coles Andrew Zabel

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Table 1 Summary of Groundwater Level Measurements Former Magic Cleaners

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Table 2 Summary of Compliance Monitoring Groundwater Analytical Results Former Magic Cleaners

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			Volatile Organ	Volatile Organic Compounds ¹ (ue/L)	
Monitoring Well	Sample Date	PCE	TCE	cis1.2-DCE	Vinyl Chloride
	01/20/07	GZ	Ð	£	Ð
	16/01/50	2 5	2	Ð	Q
	70171100	Ę	Q	Q	QN
	12/10/97	9	Ð	Ð	DN
	01/28/992	Ð	Ð	QN	QN
MW-2	03/8/993	QN	QX	QN	Q
	06/10/99	Q	QN	QN	QN
	04/21/00	Q	Q	QN	Q
	11/30/00	Ð	Ð	QN	Q
	01/03/03	Q	QN	â	Q
•	69/20/04	1.63	QN	Ð	QN
	10/02/10	27.90	2.42	3.54	QN
	16/02/50	37.30	3.41	2.68	Q
	16/21/60	18.70	3.72	3.28	Q
	12/10/97	33.60	2.97	2.85	Ð
	09/22/98	11.00	3.20	2.80	Q
	01/28/992	32.00	3.17	2.87	QN
	3/8/99 ³	24.10	2.65	2.53	0.437
	66/01/90	23.7	3.72	2.68	Q
C-44 [W]	04/24/00	26.6	2.35	1.84	0.169
	11/30/00	18.7	2.49	2.36	9770
	01/23/02	23.5	4.16	2.49	2 2
	20/20/20	C.42	4.54 3 DD	4 58	2 2
	20/02/20	19.1	0/2	66 I	
	50/50/10	296	3 14	165	Ð
	0/11/04	20.1	4.2	1.83	0.126
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	00/02/11	2	Ð	Q	Q
	01/23/02	QN	Q	Ð	Q
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	12/31/03	Ð	£	2	2
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	40/11/00			! <u>!</u>	ġ
MW-5	02/13/04	2	2		2 ;
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	01/28/99 ²	49.50	4,48	3.67	QN
	3/8/993	52.70	3.83	3.30	QN C
	06/10/99	43.70	5.53	4.65	0.212
	04/21/00	47.30	5.80	4.94	UN 866.0
_	01/23/02	17.20	3.61	3.74	0.597
9-MW	05/03/02	21.00	4.84	4.77	Q
	09/20/02	23.9	4.47	4.99	0.576
	60/60/10	11.8	2.82	3.57	Q
	06/11/03	12.5	3.17	3.21	0.48
	12/31/03	9.34	3.41	4.07	0.80
	10/11/04	17.11	47°C	17.0	
Groundwater	MTCA Method A or B Groundwater Cleanup Level	5 (A)	5 (A)	80 (B)	0.2 (A)

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 MTCA - Model Toxics Control Act
 Method A and B whose are reported with the same concentration units as the sample results.
 Method A and B whose are reported with the same concentration units as the sample results.
 Numbers in hold four indicate that the reporting limit exceeds the MTCA cleanup level.
 NA - Not available foot simple for sample for sample resonance in the reporting limit exceeds the MTCA cleanup level.
 ND - Not detected above the reporting limit.
 In Dr. Not detected above the reporting limit.
 In Simple collected following periodic groundwater extraction from monitoring wells MW-3 and MW-6 from 12-30-98 to 010-12-99.
 Sample collected following periodic groundwater extraction from monitoring wells MW-3 & MW-6 from 02-23-99 to 03-04-99.
 DC remedial system starup 10-14-01



Ground Water Sampling Log

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	Project Well Depth Sampling	<u> 15 ́</u>		<u>hc., S</u> Screen Length	Site		· · · · · · · · · · · · · · · · · · ·	Well D	ia. <u>2</u> ″ Water			Date 2 Puic		/.
1	Device Measuring Point	Peri	Pun	·	Tubing Type Other Information	<u>_HDP</u> [Level	2	34*			
	Sampling Personnel	A12											· · · · · · · · · · · · · · · · · · ·	
· ·	Time	pH		Conid. us/cm	Dis.O ₂ mg/L	DTW (ft)	Gallons Purged (Cumulative)	ORP	Turb	•	Notes			
	1210	<u>7.33</u>		0.244	12.37	7.34		44	0		···			
	1219			0,245	9,04	7,36		51	D	•	· ·		<u> </u>	
	1220			0.249	7.00	7,40		64	Ø.		·		· · · · · · · · · · · · · · · · · · ·	
	1285	8.07	20.01	0.251		7.40		48	0					
·	1236	8.10	20.07	0.252	5.61	7,40	2.5	49	O					
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Ground Water Sampling Log

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	Sampling Personnel	AIZ								······································
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	1140	7.55	20,10	0.264	4.10			20	0	
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)	Measuring Point	TO	Ċ.		Other Information				•			
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· _'	Sampling Personnel	AIZ							_	······	· · · · · · · · · · · · · · · · · · ·	-
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	Time		7	Cond. us/cm	[(Cumulative)	lurb	ORP	Notes		
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17.	10 35	701	19,58	1.05	7.80 9. Max	7,18		0	100			-
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Ground Water Sampling Log

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-	Project Well Depth Sampling Device Measuring Point	<u> </u>	14.5	-	Tubing Type Other		Fore	Vell Dia.	Vater Level	Vell # <u>MW-6</u> Date <u>8/11/04</u> Casing Type <u>PU-C</u>
 - -	Point Sampling Personnel	<u>AZ</u>		·	_ Information					
	Time	pH	Temp °C	Cond. us/cm	Dis.O ₂ mg/L	DTW (ft)	Gallons Purged (Cumulative)	Turb	ORP	Notes
	13000	.98	22.51	0.348 ·	6-96	4.10	0.5	$\langle \gamma \rangle$	3€	
	1305	<u> </u>		·				-	~	Meter Not Reading Error
	13/0		<u> </u>		·	-		-	<u> </u>	Meter Not Reading Error Change batteries
	1315	1,50	24,20	0.270	6.96		2.5	0	-40	
	1320	7.51	23,99	9.265	6.96	4.0	\checkmark	0	-47	
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 Seattle
 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

 425.420.9200
 fax 425.420.9210

 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509.924.9200
 fax 509.924.9290

 Portland
 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

 503.905.9200
 fax 503.906.9210

 Bend
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

 541.383.9310
 fax 541.382.7588

 Anchorage
 2000 W, International Airport Road, Suite A10, Anchorage, AK 99502-1119

 907.563.9200
 fax 907.563.9210

RECEIVED

AUG 2.6 2004 URS CORPORATION SEATTLE

24 August 2004

David Raubvogel URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616

RE: Magic Cleaners

Enclosed are the results of analyses for samples received by the laboratory on 08/11/04 13:40. If you have any juestions concerning this report, please feel free to contact me.

Sincerely,

. Gerdis

Jeff Gerdes Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119

907.503.9200 fax 907.503.9210 **URS** Corporation Project: Magic Cleaners 1501 4th Ave, Suite 1400 Project Number: 33756663 **Reported:** Seattle, WA/USA 98101-1616 Project Manager: David Raubvogel 08/24/04 14:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix		Date Sampled	Date Received	
MW-5	B4H0295-01	Water		08/11/04 10:55	08/11/04 13:40	
MW-4	B4H0295-02	Water		08/11/04 11:50	08/11/04 13:40	
MW-3	B4H0295-03	Water	-	08/11/04 12:40	08/11/04 13:40	
MW-6	· B4H0295-04	Water		08/11/04 13:20	08/11/04 13:40	

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						09.924.9200 fax 405 SW Nimbus		on, OR 97008-7132	
						03.906.9200 fax		lend, OR 97701-5711	
www.ncala	DS.COM				54	41.383.9310 fax	541.382.7588		
	•					000 W. Internatio 07.563.9200 fax		Suite A10, Anchorage, A	K 99502-1119
URS Corporation			Project: M	lagic Cleane					
1501 4th Ave, Suite 1400		Project 1	Number: 33	3756663				Reporte	d:
Seattle, WA/USA 98101-1616		Project N	Manager: D	avid Raubvo	ogel			08/24/04 1	4:22
	Volatile Orga	nic Co	mnound	s by EP	A Meth	od 8260]	B		
			-	ytical - H			_		
· · · · · · · · · · · · · · · · · · ·		eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-5 (B4H0295-01) Water Sar	mpled: 08/11/04 10:55	Receive	d: 08/11/04	4 13:40					
Acetone	ND	20.0	ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	-
Benzene -	ND	1.00	"	9	u	"	n ·	61	
Bromobenzene	ND	1.00	**	91	н	17	n	п	
Bromochloromethane	ND	1.00	**	Ħ	"	*	**	a	
Bromodichloromethane	ND	1.00	74	"	**	tı	17	n	
Bromoform	ND	1.00	*1	"	11	ŧı	11	n	
Bromomethane	ND	2.00	t 7	"	17	n	17	n	
2-Butanone	ND	10.0	11		**	11	11	n	
n-Butylbenzene	ND	1.00	11	"	**	11	11	π	
sec-Butylbenzene	ND	1.00	. 11	11	11	"	n	57	
tert-Butylbenzene	ND	1.00	11	11	11	u	n	**	
Carbon disulfide	ND	1.00	11	11	4	u	п	83	
Carbon tetrachloride	ND	1.00	11	п	н	n	11	17	
Chlorobenzene	ND	1.00	11	u	11	н	"	11	
Chloroethane	ND	1.00	11	11	n	11	"	17	
Chloroform	ND	1.00	ti	"	n	n	"	11	
Chloromethane	ND	5.00	n	H	н		**	n	
2-Chlorotoluene	ND	1.00	н	u	u	n	**	11	
4-Chlorotoluene	ND	1.00	n	11	n	41		n	
Dibromochloromethane	ND	1.00	41	n	п	. #	84	n	
1,2-Dibromo-3-chloropropane	ND	5.00	11	41	".	"	"	*	
1,2-Dibromoethane	ND	1.00	n	41	n	17	11	1	
Dibromomethane	ND	1.00	ti	"	"	**	n	"	
1,2-Dichlorobenzene	ND	1.00	n	17	n	u	a		
1,3-Dichlorobenzene	ND	1.00	n	n	"	11	n	17	
1,4-Dichlorobenzene	ND	1.00	47	н	**	u	Ħ	n	
Dichlorodifluoromethane	ND	1.00	tt	U	н	n	"	n	
1,1-Dichloroethane	ND	1.00	"	11	н	n	11	n	
1,2-Dichloroethane	ND	1.00	*1	u	u	41	**	"	
1,1-Dichloroethene	ND	1.00	11	ч	н	11	**	τι	
cis-1,2-Dichloroethene	ND	1.00	**	u	u	н	17	*1	
trans-1,2-Dichloroethene	ND	1.00	† 7	11	п	tt	*1	a	
1,2-Dichloropropane	ND	1.00	**	"	8	η,	n	**	
1,3-Dichloropropane	ND	1.00	11	n	n	"	*1	87	
2.2-Dichloropropage	ND	1.00		*	61	11		n	

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2,2-Dichloropropane

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616

Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

08/24/04 14:22

Reported:

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Kout		Omb		Datch	Toparca	7 mility 200	Mediou	
MW-5 (B4H0295-01) Water	Sampled: 08/11/04 10:55	Receive	d: 08/11/04	13:40					
1,1-Dichloropropene	ND	1.00	ug/l	1	4H16048	08/16/04	08/16/04	Π	
cis-1,3-Dichloropropene	ND	1.00	*1	ti	11	"	"	n	
rans-1,3-Dichloropropene	ND	1.00	n	u	a	**	**	п	
Ethylbenzene	ND	1.00	и	Ħ		tr	"	*	
Hexachlorobutadiene	ND	1.00	11	11	14	11	"	п	
Methyl tert-butyl ether	ND	2.00	. 11	n	61	**	н	n	
e-Hexanone	ND	10.0	11	**	**	11	н	n	
sopropylbenzene	ND	1.00	11	n	"	**			
-Isopropyltoluene	ND	1.00	ti	**	17	*	"	n	
-Methyl-2-pentanone	ND	10.0	61	n	11	Ħ	11	n	
Aethylene chloride	ND	5.00	"	*1	17	**	n	n	
Naphthalene	ND	1.00	t 7	n	14	n	11	n	
-Propylbenzene	ND	1.00	"		**	"	**	n	
tyrene	ND	1.00	"	11	94	17	"	н,	
,2,3-Trichlorobenzene	ND	1.00	47	**	*7	n	n	11	
,2,4-Trichlorobenzene	ND	1.00	11	11	57	n	u	n	
,1,1,2-Tetrachloroethane	ND	1.00	11	11	**	Ħ			
,1,2,2-Tetrachloroethane	ND	1.00	"	**	17	n	11	n	
[etrachloroethene	ND	1.00	tt	**	er	11	11	н	
Foluene	ND	1.00	**	**	"	н	"	n	
1,1,1-Trichloroethane	· ND	1.00	"	**	"	n	11	n	
,1;2-Trichloroethane	ND	1.00	н	**	n	"	"	n	
frichloroethene	ND	1.00	ŧ	Ħ	н	n .	u	π	
Frichlorofluoromethane	ND	1.00	u	11	u	"	u	n	
,2,3-Trichloropropane	ND	1.00	11	"	n		n		
,2,4-Trimethylbenzene	ND	1.00	Ħ	u	п		"	n	
,3,5-Trimethylbenzene	ND	1.00	*1	n	n	"	11	R	
/inyl chloride	ND	1.00	n	"	п	11	n	n .	
-Xylene	ND	1.00	11	41	u	41	17	n 1	
n,p-Xylene	ND	2.00	u	u	u	"	"	Π	
Surrogate: 1,2-DCA-d4		0-130			"	"	"	n	
Surrogate: Toluene-d8	94.5 % 7	0-130			"	"	"	57	•
Surrogate: 4-BFB	99.0 % 7	0-130			"	"	**	"	

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Reported: 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

	R	eporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-4 (B4H0295-02) Water	Sampled: 08/11/04 11:50	Receive	1: 08/11/0 4	13:40					
Acetone	ND	20.0	ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	
Benzene	ND	1.00	"	**	11	Ħ	n	*1	
Bromobenzene	. ND	1.00	51	*		u	"	e	
Bromochloromethane	ND	1.00	u	"	u	н	11	11	
Bromodichloromethane	ND	1.00	81	*	н	n	n	**	
Bromoform	ND	1.00	"	**	u	H	**	n	
Bromomethane	ND	2.00	Ħ	11	u	11	"	H	
2-Butanone	ND	10.0	H	н	н	n	11	ħ	
n-Butylbenzene	ND	1.00	87	н	н	*	"	n	
sec-Butylbenzene	ND	1.00	*7	u	"	н	11	n	
tert-Butylbenzene	ND	1.00	**	a	**	*	u	н	
Carbon disulfide	ND	1.00	87	u	n	ti .	н	n	
Carbon tetrachloride	ND	1.00	"	u	"	*1	n	11	
Chlorobenzene	ND	1.00	*1	u	đ	"	u	ti	
Chloroethane	ND	1.00	17	n	"	Ŧ	"	61	
Chloroform	ND	1.00	17	u	"	**	U	11	
Chloromethane	ND	5.00	u	a	"	17	"	*	
2-Chlorotoluene	ND	1.00	11	н	"	ti	n	*1	
4-Chlorotoluene	ND	1.00	11	u	*1	11	ti	**	
Dibromochloromethane	ND	1.00	н	n	"	u	*	11	
1,2-Dibromo-3-chloropropane	ND	5.00	u	n	11	n	N	**	
1,2-Dibromoethane	ND	1.00	n	"	n	u	. "	17	
Dibromomethane	ND	1.00		"	"	н	n	n	
1,2-Dichlorobenzene	ND	1.00	н	tt	н	u	Ħ	If	
1,3-Dichlorobenzene	ND	1.00	н	"		u	Π	H	
1,4-Dichlorobenzene	ND	1.00	"	**		п	"	n	
Dichlorodifluoromethane	ND	1.00	0	11	n	ti		Π	
1,1-Dichloroethane	ND	1.00		17	**	11		n	
1,2-Dichloroethane	ND	1.00	u	17	"	"	n	**	
1,1-Dichloroethene	ND	1.00	n	н	47	IT	11	11	
cis-1,2-Dichloroethene	ND	1.00	n	н	ŧf	n	ч	Π	
trans-1,2-Dichloroethene	ND	1.00	"	u	*1	**	п		
1,2-Dichloropropane	ND	1.00	17	п	н	"	41	п	
1,3-Dichloropropane	ND	1.00	n	U	u	n	Ħ	π	
2,2-Dichloropropane	ND	1.00	"	u	u	н	"	и	

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907.583.9200 fax 907.583.9210

URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616

Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

Reporting Analyte Limit Method Result Units Dilution Batch Prepared Analyzed Note MW-4 (B4H0295-02) Water Sampled: 08/11/04 11:50 Received: 08/11/04 13:40 1,1-Dichloropropene ND 11 1.00 ug/l 4H16048 08/16/04 08/16/04 ĩ ND cis-1,3-Dichloropropene · 1.00 17 trans-1,3-Dichloropropene ND 1.00 Ethylbenzene ND 1.00 ., •• . Hexachlorobutadiene ND 1.00 11 Methyl tert-butyl ether ND 2.00 n " 2-Hexanone ND 10.0 Isopropylbenzene ND 1.00 " " ND p-Isopropyltoluene 1.00 t ND 4-Methyl-2-pentanone 10.0 Methylene chloride ND 5.00 Naphthalene ND 1.00 n-Propylbenzene ND 1.00 . Styrene ND 1.00 n tı ND 1,2,3-Trichlorobenzene 1.00 1,2,4-Trichlorobenzene ND 1.00 1,1,1,2-Tetrachloroethane ND 1.00 ... 1,1,2,2-Tetrachloroethane ND 1.00 11 н Tetrachloroethene ND 1.00 Toluene ND 1.00 1,1,1-Trichloroethane ND 1.00 1,1,2-Trichloroethane ND 1.00 п н Trichloroethene ND u 1.00 Trichlorofluoromethane ND 1.00 1,2,3-Trichloropropane ND 1.00 11 1,2,4-Trimethylbenzene ND 1.00 11 11 1,3,5-Trimethylbenzene ND 0 1.00 Vinyl chloride ND 1.00 o-Xylene ND 1.00 ... 11 . m,p-Xylene ND 2.00 ŧŧ U. н 11 87 106 % 70-130

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Surrogate: 1,2-DCA-d4

Surrogate: Toluene-d8

Surrogate: 4-BFB

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97.0%

106 %

70-130

70-130

Jeff Gerdes, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616

Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B

Analyte Result Limit Units Dilution Batch Prepared Analyzed Method Note MW-3 (02410/255-03) Water Sampled: 08/11/04 12:40 Received: 08/11/04 13:40 <t< th=""><th></th><th>Nor</th><th>th Cre</th><th>ek Anal</th><th>ytical - I</th><th>Bothell</th><th></th><th></th><th></th><th></th></t<>		Nor	th Cre	ek Anal	ytical - I	Bothell				
Actione ND 20.0 ug/l 1 4H16048 08/16/04 6PA 8260B Benzne ND 1.00 " " " " " " Bromoberizare ND 1.00 " " " " " " Bromobilotomethane ND 1.00 " <th>Analyte</th> <th></th> <th></th> <th>Units</th> <th>Dilution</th> <th>Batch</th> <th>Prepared</th> <th>Analyzed</th> <th>Method</th> <th>Notes</th>	Analyte			Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brance ND 1.00 *	MW-3 (B4H0295-03) Water	Sampled: 08/11/04 12:40	Receive	d: 08/11/04	4 13:40				•	
BeraneND1.00	Acetone	ND	20.0	ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	
Diomochizementiane ND 1.00 "	Benzene	ND	1.00		H	**	п	"	17	
Dotation function ND 1.00 "	Bromobenzene	ND	1.00	"	11	11	п	"	17	
BromoformND1.00""" <t< td=""><td>Bromochloromethane</td><td>. ND</td><td>1.00</td><td>47</td><td>11</td><td>"</td><td>H</td><td>n</td><td>17</td><td></td></t<>	Bromochloromethane	. ND	1.00	47	11	"	H	n	17	
Distribution ND ND 1.00 "	Bromodichloromethane	ND	1.00	17	н	"	ti	11	17	
Browner ND 1.00 " " " " " " n-Butylbenzene ND 1.00 " " " " " " sec-Butylbenzene ND 1.00 " " " " " " Carbon disulfide ND 1.00 "	Bromoform	ND	1.00	н	н	n	n	11	n	
2-bitume ND 100 " <th< td=""><td>Bromomethane</td><td>ND</td><td>2.00</td><td>"</td><td>u</td><td>n</td><td>n</td><td>11</td><td>17</td><td></td></th<>	Bromomethane	ND	2.00	"	u	n	n	11	17	
n-Batylenzene ND 1.00 "	2-Butanone	ND	10.0	"	n	H	u	11 ,	tr	
Schmylotizatie ND 1.00 " " " " " " Carbon disulfide ND 1.00 " " " " " Carbon tetrachloride ND 1.00 " " " " " Chlorobenzene ND 1.00 " " " " " " Chlorobenzene ND 1.00 " " " " " " " Chlorobenzene ND 1.00 " <	n-Butylbenzene	ND	1.00	17	n	n	u	n	n	
Carbon disulfideND1.00"""	sec-Butylbenzene	ND	1.00	n	н	"	u	п	T	
Carbon distantine ND 1.00 " " " " " Carbon distantine ND 1.00 " " " " " Chlorobenzene ND 1.00 " " " " " " Chlorobentane ND 1.00 " " " " " " " Chlorobentane ND 5.00 " <t< td=""><td>tert-Butylbenzene</td><td>ND</td><td>1.00</td><td>"</td><td>н</td><td>"</td><td>n</td><td>n</td><td>п</td><td></td></t<>	tert-Butylbenzene	ND	1.00	"	н	"	n	n	п	
Chlorobenzene ND 1.00 "	Carbon disulfide	ND	1.00	п	н	n	11	n	17	
ChloroethaneND1.00""" <td>Carbon tetrachloride</td> <td>ND</td> <td>1.00</td> <td>n</td> <td>и</td> <td>"</td> <td>u</td> <td>"</td> <td>n</td> <td></td>	Carbon tetrachloride	ND	1.00	n	и	"	u	"	n	
Chloroform ND 1.00 " " " " " " Chloroform ND 5.00 " " " " " " Chloroformethane ND 1.00 " " " " " " 2-Chlorofoluene ND 1.00 " " " " " " 4-Chlorofoluene ND 1.00 " " " " " " 1,2-Dibrone-3-chloropropane ND 5.00 " " " " " " 1,2-Dibrone-3-chloropropane ND 1.00 " " " " " " 1,2-Dibromoethane ND 1.00 " " " " " " 1,2-Dichlorobenzene ND 1.00 " <	Chlorobenzene	ND	1.00	"	11	*1	n	17	17	
Chlorobilit ND 1.00 "	Chloroethane	ND	1.00	n	11	n	n	11	n	
2-Chlorotoluene ND 1.00 " " " " " " 4-Chlorotoluene ND 1.00 " " " " " " Dibromochloromethane ND 1.00 " " " " " " 1,2-Dibromo-3-chloropropane ND 5.00 " " " " " " 1,2-Dibromo-3-chloropropane ND 1.00 " " " " " " " 1,2-Dibromoethane ND 1.00 "	Chloroform	ND	1.00		11	Ħ	u	11	n	
4-Chloroder ND 1.00 "	Chloromethane	ND	5.00	n	IT	*1	n	19	11	
DibromochloromethaneND1.00"""""""1,2-Dibromo-3-chloropropaneND5.00"""""""1,2-DibromoethaneND1.00""""""""1,2-DichlorobenzeneND1.00""""""""1,3-DichlorobenzeneND1.00""""""""1,4-DichlorobenzeneND1.00""""""""1,4-DichlorobenzeneND1.00""""""""1,4-DichlorobenzeneND1.00""""""""1,4-DichlorobenzeneND1.00"""""""""1,4-DichlorobenzeneND1.00""<	2-Chlorotoluene	ND	1.00	a	π	n	n	n	11	
1,2-Dibrone-3-chloropropane ND 5.00 "	4-Chlorotoluene	ND	1.00	н	**	n	n	n	n	
1,2-Diblomber-beneropropate ND 1.00 "	Dibromochloromethane	ND	1.00	n	ŧr	۳I	n	"	17	
Dibronomethane ND 1.00 "	1,2-Dibromo-3-chloropropane	ND	5.00	м	n	11	n	17	u	
1,2-Dichlorobenzene ND 1.00 " <td>1,2-Dibromoethane</td> <td>ND</td> <td>1.00</td> <td>н</td> <td>"</td> <td>"</td> <td>u</td> <td>"</td> <td>n</td> <td></td>	1,2-Dibromoethane	ND	1.00	н	"	"	u	"	n	
1,3-Dichlorobinzene ND 1.00 " <td>Dibromomethane</td> <td>ND</td> <td>1.00</td> <td>п</td> <td>'n</td> <td>"</td> <td>н</td> <td>"</td> <td>n</td> <td></td>	Dibromomethane	ND	1.00	п	'n	"	н	"	n	
1,4-Dichlorobitizitie ND 1.00 "<	1,2-Dichlorobenzene	ND	1.00	u	н	n	11	**	н	
Dichlorodifluoromethane ND 1.00 "	1,3-Dichlorobenzene	ND	1.00	м	n	Ħ	11	11	n	
1,1-DichloroethaneND1.00""""""""1,2-DichloroethaneND1.00"""""""1,1-DichloroetheneND1.00"""""""cis-1,2-Dichloroethene1.831.00"""""""trans-1,2-DichloroetheneND1.00"""""""1,2-DichloropropaneND1.00"""""""1,3-DichloropropaneND1.00""""""	1,4-Dichlorobenzene	ND	1.00	п	"	"	н	"	n	
1,2-Dichloroethane ND 1.00 " <td>Dichlorodifluoromethane</td> <td>ND</td> <td>1.00</td> <td>н</td> <td>n</td> <td>"</td> <td>11</td> <td>17</td> <td>11</td> <td></td>	Dichlorodifluoromethane	ND	1.00	н	n	"	11	17	11	
1,1-DichloroetheneND1.00"""""""cis-1,2-Dichloroethene1.831.00"""""""trans-1,2-DichloroetheneND1.00"""""""1,2-DichloropropaneND1.00"""""""1,3-DichloropropaneND1.00"""""""	1,1-Dichloroethane	ND	1.00	u	n	17	n	11	n	
r,1-Dichloroethene 1,83 1.00 " " " " " " trans-1,2-Dichloroethene ND 1.00 " " " " " " 1,2-Dichloropropane ND 1.00 " " " " " " 1,3-Dichloropropane ND 1.00 " " " " " "	1,2-Dichloroethane	ND	1.00	n	"	17	u	n	t 1	
trans-1,2-DichloroptheneND1.00"""""1,2-DichloroptopaneND1.00""""""1,3-DichloroptopaneND1.00""""""	1,1-Dichloroethene	ND	1.00	н	н	*1	п	11	*1	
1,2-Dichloropropane ND 1.00 " <th"< th=""> " " "</th"<>	cis-1,2-Dichloroethene	1.83	1.00	n	н	H	77	п	57	
1,2-DichloropropaneND1.00""""1,3-DichloropropaneND1.00""""	trans-1,2-Dichloroethene	ND	1.00	п	n	n	11	11	π	
	1,2-Dichloropropane	ND	1.00	n	11	11	π	11	**	
2,2-Dichloropropane ND 1.00 " " " " " "	1,3-Dichloropropane	ND	1.00	u	n	n	n	n	ŦT	
	2,2-Dichloropropane	ND	1.00	u	u	н	11	U	**	

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North Creek Analytical, Inc. Environmental Laboratory Network Page 6 of 15



907.563.9200 fax 907.563.9210

URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners

Project Number: 33756663 Project Manager: David Raubvogel **Reported:** 08/24/04 14:22

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Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (B4H0295-03) Water	Sampled: 09/11/04 12:40			12.40					
1,1-Dichloropropene	Sampleu: 08/11/04 12:40	1.00	u <u>: 08/11/04</u> ug/l	13:40	4H16048	08/16/04	08/16/04		
cis-1,3-Dichloropropene	ND	1.00	n ug/1		41110048	00/10/04 #	"	17	
trans-1,3-Dichloropropene	ND	1.00	н	u	"		**		
Ethylbenzene	ND	1.00	11	11		"		"	
Hexachlorobutadiene	ND	1.00	"	11	u	н	"	"	
Methyl tert-butyl ether	ND	2.00	11	· "	u	n	"	17	
2-Hexanone	ND	10.0	н	"	п	ħ	**		
Isopropylbenzene	ND	1.00	11	17	n	н	11	n	
p-Isopropyitoluene	ND	1.00	"	**	u	"	**	**	
4-Methyl-2-pentanone	ND	10.0	**	**	н	п	**	н	
Methylene chloride	ND	5.00	11	**	n	n	tt	**	
Naphthalene	ND	1.00	87			n	11		
n-Propylbenzene	ND	1.00	*1	11	11	Ħ	n	n	
Styrene	ND	1.00	**	*1		н	"	FI	
1,2,3-Trichlorobenzene	ND	1.00	"	н	и	11	ĸ	n	
1,2,4-Trichlorobenzene	ND	1.00	u	61	"	11	"	ជ	
1,1,1,2-Tetrachloroethane	ND	1.00	"	ti	**	Ħ	n	п	
1,1,2,2-Tetrachloroethane	ND	1.00	**	11	**	11	u	n	
Tetrachloroethene	20.1	1.00	ŧ	n	"	11	11	n	
Toluene	ND	1.00	н	u	91	п	n	"	
1,1,1-Trichloroethane	ND	1.00	u	п	11	11	u	*1	
1,1,2-Trichloroethane	ND	1.00	n	u	"	п	N	17	
Trichloroethene	4.20	1.00	11	*1	n	11	"	17	
Trichlorofluoromethane	ND	1.00	u	"	n	11	"	57	
1,2,3-Trichloropropane	ND	1.00	n	**	11	**	u	π	
1,2,4-Trimethylbenzene	ND	1.00	"	"	н	97	ti	17	
1,3,5-Trimethylbenzene	ND	1.00	"	ŧ	n	11	n	п	
Vinyl chloride	ND	1.00	"	"	u	42	u	π	
o-Xylene	ND	1.00	11	"	п	**	ŧ	Ħ	
m,p-Xylene	ND	2.00	(1	**		**	n	**	
Surrogate: 1,2-DCA-d4	110 % 7	0-130			"	п	"	"	
Surrogate: Toluene-d8	97.0 % 7	0-130			"	"	"	"	
Surrogate: 4-BFB	112% 7	0-130			"	"	"	"	

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North Creek Analytical, Inc. Environmental Laboratory Network Page 7 of 15



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B

	Noi	rth Cre	ek Anal	ytical - H	Bothell				
Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (B4H0295-04) Water	Sampled: 08/11/04 13:20	Receive	d: 08/11/04	4 13:40					
Acetone	ND	20.0	ug/l	1	4H16048	08/16/04	08/16/04	EPA 8260B	
Benzene	ND	1.00	**	п	"	n	*1	**	
Bromobenzene	ND	1.00	11	11	м	Ħ	11	n	
Bromochloromethane	ND	1.00	**	11	"	11	*1	17	
Bromodichloromethane	ND	1.00	17	u	11	11	Ħ	π	
Bromoform	ND	1.00	\$7	U	8	4	*1	n	
Bromomethane	ND	2.00	tt	11	N	**	**	"	
2-Butanone	ND	10.0	**		u	Ħ	tr	Ħ	
n-Butylbenzene	ND	1.00	**	n	н	"	**	Π	
sec-Butylbenzene	ND	1.00	**		11	"	. 11	Ħ	
tert-Butylbenzene	ND	1.00	**	п	n	11	*7	n	
Carbon disulfide	ND	1.00	17		n	"	17	n	
Carbon tetrachloride	ND	1.00	*7	u	н	н	17	n	
Chlorobenzene	ND	1.00	**		"	**	11	m	
Chloroethane	ND	1.00	π	u	н	¥	17	n	
Chloroform	ND	1.00	\$7	u	**	47		17	
Chloromethane	ND	5.00	**	u	*	tr	17	n	
2-Chlorotoluene	ND	1.00	77	н	**	n	17	п	
4-Chlorotoluene	ND	1.00	**	a	11	97	11	Π	
Dibromochloromethane	ND	1.00	*1	п	"	17	n	n	
1,2-Dibromo-3-chloropropane	ND	5.00	17		"	ti	п	"	
1,2-Dibromoethane	ND	1.00	**	u	**	*1	11	n	
Dibromomethane	ND	1.00	**	n	"	17	47	п	
1,2-Dichlorobenzene	ND	1.00	n	u	n	tr	11	n	
1,3-Dichlorobenzene	ND	1.00	11	u	11	n	17	n	
1,4-Dichlorobenzene	ND	1.00	**			"	11	n	
Dichlorodifluoromethane	ND	1.00	**	н	"	17	u	n	
1,1-Dichloroethane	ND	1.00	**	ч	e1	n	ч	п	
1,2-Dichloroethane	ND	1.00	**	Ħ	"	н	н	ព	
1,1-Dichloroethene	ND	1.00	11	11	н	n	u	n	
cis-1,2-Dichloroethene	3.27	1.00	ti -	n	**	n	"	n	
trans-1,2-Dichloroethene	ND	1.00	11	п	97	n	n	7	
1,2-Dichloropropane	ND	1.00	**	n	11	u	н	n	
1,3-Dichloropropane	ND	1.00	**	"	61	11	N	п	
2,2-Dichloropropane	ND	1.00	11	н	11	н	u	17	
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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663

Project Manager: David Raubvogel

Reported: 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B

		Reporting	=						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (B4H0295-04) Water	Sampled: 08/11/04 13:20	Receive	d: 0 <u>8/</u> 11/04	4 13:40					
1,1-Dichloropropene	ND	1.00	ug/l	1	4H16048	08/16/04	08/16/04	*1	
cis-1,3-Dichloropropene	ND	1.00	Ħ	H	r1	"	n	Ħ	
trans-1,3-Dichloropropene	ND	1.00	11	u	n	11	11	п	
Ethylbenzene	ND	1.00	n	п	tt	n	11	n	
Hexachlorobutadiene	· ND	1.00	11	u	11	"	"	a	
Methyl tert-butyl ether	ND	2.00	41	n	u	**	"	4	
2-Hexanone	ND	10.0	11	u	н	41	11	n	
Isopropylbenzene	ND	1.00	**	u	u	"	**	۹.	
p-Isopropyitoluene	ND	1.00	e7	u	u	н	**	π	
4-Methyl-2-pentanone	ND	10.0	n	"	u	n	"	**	
Methylene chloride	ND	5.00	"	**	n	н	41	*	
Naphthalene	ND	1.00	"	"	11	п	**	π	
n-Propylbenzene	ND	1.00	11	"	47	н	"	Ŧ	
Styrene	ND	1.00	n	"	47	"	**	Ħ	
1,2,3-Trichlorobenzene	ND	1.00	u	Ħ	v	н	**	π	
1,2,4-Trichlorobenzene	ND	1.00	n	11	*	11	**	#	
1,1,1,2-Tetrachloroethane	ND	1.00	N	**	**	u	*1		
1,1,2,2-Tetrachloroethane	ND	1.00	u	**	"		*1	π	
Tetrachloroethene	11.2	1.00	n	н	**	н	41		
Toluene	ND	1.00	11	*	**	u	**	π	
1,1,1-Trichloroethane	ND	1.00	u	н	tr	п	**	e	
1,1,2-Trichloroethane	ND	1.00	11	u	**	н	17	Ħ	•
Trichloroethene	3.24	1.00	11	н	"	н	**	n	
Trichlorofluoromethane	ND	1.00	"	u	n			H	
1,2,3-Trichloropropane	ND	1.00	17	π		н	u	*1	
1,2,4-Trimethylbenzene	ND	1.00	"	n	17	н		77	
1,3,5-Trimethylbenzene	ND	1.00	81	Ħ	rt		н	17	
Vinyl chloride	ND	1.00	19	11	"		в	11	
o-Xylene	ND	1.00		41	"	*1	u	"	
m,p-Xylene	ND	2.00	11	и	11	п	п	π	
Surrogate: 1,2-DCA-d4	104 % 7	0-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 % 7	0-130			"	"	"		
Surrogate: 4-BFB	126 % 7	0-130			"	"	"	H (

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North Creek Analytical, Inc. Environmental Laboratory Network Page 9 of 15



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Anchorage 2000 W. International Airport Road, Suite A10, Anchorage, AK 99502-1119

07.503.9200 fax 907.503.9210

URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616

Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 08/24/04 14:22

Volatile Organic Compounds by GC/MS with Selected Ion Monitoring

r				•					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
<u>MW-5 (B4H0295-01) Water</u>	Sampled: 08/11/04 10:5	5 Receive	ed: 08/11/04	13:40		•			
Vinyl chloride	ND	0.100	ug/l	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	75.5 %	70-130			"	"	п	17	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	7 0-1 30			. "	n	"	"	
MW-4 (B4H0295-02) Water	Sampled: 08/11/04 11:5	0 Receive	ed: 08/11/04	13:40					
Vinyl chloride	ND	0.100	ug/l	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	76.0 %	70-130	-		"	"	rt	17	
Surrogate: Toluene-d8	107 %	70-130			17	"	"	n	
Surrogate: 4-BFB	102 %	70-130			"	"	"	tt	
MW-3 (B4H0295-03) Water	Sampled: 08/11/04 12:4	0 Receive	d: 08/11/04	13:40					
Vinyl chloride	0.126	0.100	ug/I	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	76.0 %	70-130			"	"	"	n	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	
MW-6 (B4H0295-04) Water	Sampled: 08/11/04 13:2	0 Receive	d: 08/11/04	13:40					
Vinyl chloride	0.757	0.100	ug/l	1	4H23026	08/20/04	08/20/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	76.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	n	

103 %

70-130

Surrogate: 4-BFB

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North Creek Analytical - Bothell

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907.303.9200 fax 907.363.9210

	URS Corporation	Project: Magic Cleaners	
1	1501 4th Ave, Suite 1400	Project Number: 33756663	Reported:
	Seattle, WA/USA 98101-1616	Project Manager: David Raubvogel	08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

	N	orth Cree	ek Anal	ytical - H	Bothell						1
		Reporting		Spike	Source		%REC		RPD		1'
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 4H16048: Prepared 08/16/0	4 Using El	PA 5030B									_
Blank (4H16048-BLK1)											
Acetone	ND	20.0	ug/l							•	-
Benzene	ND	1.00	п								
Bromobenzene	ND	1.00									
Bromochloromethane	ND	1.00	**								
Bromodichloromethane	ND	1.00	H								
Bromoform	ND	1.00	п								
Bromomethane	ND	2.00	п								
2-Butanone	ND	10.0	"								
n-Butylbenzene	ND	1.00	"								
sec-Butylbenzene	ND	1.00	•								
tert-Butylbenzene	ND	1.00	a								
Carbon disulfide	ND	1.00	ี่ ที่								, I
Carbon tetrachloride	ND	1.00	n								ί.
Chlorobenzene	ND	1.00	71								
Chloroethane	ND	1.00	n								
Chloroform	ND	1.00	n								
Chloromethane	ND	5.00	n								
2-Chlorotoluene	ND	1.00	n								1
4-Chlorotoluene	ND	1.00	n								1
Dibromochloromethane	ND	1.00	n								-
1,2-Dibromo-3-chloropropane	ND	5.00	11				•				
1,2-Dibromoethane	ND	1.00	11								1
Dibromomethane	ND	1.00	41								'
1,2-Dichlorobenzene	ND	1.00	n								-
1,3-Dichlorobenzene	ND	1.00	н								1
1,4-Dichlorobenzene	ND	1.00	"								÷
Dichlorodifluoromethane	ND	1.00	"								<i>.</i>
1,1-Dichloroethane	ND	1.00	n								ì
1,2-Dichloroethane	ND	1.00	н								1
1,1-Dichloroethene	ND	1.00	Π						1		
cis-1,2-Dichloroethene	ND	1.00	n								ſ
trans-1,2-Dichloroethene	ND	1.00	n						,		Í
1,2-Dichloropropane	ND	1.00									

North Creek Analytical - Bothell

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North Creek Analytical, Inc. Environmental Laboratory Network Page 11 of 15

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

	North Creek Analytical - Bothell										
			Reporting		Spike	Source		%REC	DDD	RPD	Mata
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4H16048:	Prepared 08/16/04	Using El	PA 5030B							•	
Blank (4H16048-BI	LK1)								-		
1,3-Dichloropropane		ND	1.00	ug/l				-			
2,2-Dichloropropane		ND	1.00	π							
1,1-Dichloropropene		ND	1.00	17							
cis-1,3-Dichloropropen	ie .	ND	1.00	11							
trans-1,3-Dichloroprop	ene	ND	1.00	n							
Ethylbenzene		ND	1.00	"							
Hexachlorobutadiene		ND	1.00	Ħ							
Methyl tert-butyl ether		ND	2.00	11							
2-Hexanone		ND	10.0	*1							
Isopropylbenzene		ND	1.00	11							
p-Isopropyltoluene		ND	1.00	11							
4-Methyl-2-pentanone		ND	10.0	ti							
Methylene chloride		ND	5.00	Ħ							
Naphthalene		ND	1.00	Ħ							
n-Propylbenzene		ND	1.00	tı							
Styrene		ND	1.00	n							
1,2,3-Trichlorobenzene	;	ND	1.00	n							
1,2,4-Trichlorobenzene	;	ND	1.00	ti							
1,1,1,2-Tetrachloroetha	ane	ND	1.00								
1,1,2,2-Tetrachloroetha		ND	1.00	n							
Tetrachloroethene		ND	1.00	*							
Toluene		ND	1.00	н							
1,1,1-Trichloroethane		ND	1.00	*							
1,1,2-Trichloroethane		ND	1.00	"							
Trichloroethene		ND	1.00	*							
Trichlorofluoromethan	e	ND	1.00	61							
1,2,3-Trichloropropane		ND	1.00	"							
1,2,4-Trimethylbenzen		ND	1.00	n -							
1,3,5-Trimethylbenzen		ND	1.00	e							
Vinyl chloride		ND	1.00	n							
o-Xylene		ND	1.00	11							
m,p-Xylene		ND	2.00	n							
Surrogate: 1,2-DCA-d		20.2		"	20.0		101	70-130		• • · · · · · · · · · · · · · · · · · ·	

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Jeff Gerdes, Project Manager



URS Corporation	Project: Magic Cleaners	
1501 4th Ave, Suite 1400	Project Number: 33756663	Reported:
Seattle, WA/USA 98101-1616	Project Manager: David Raubvogel	08/24/04 14:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

	Reporting Spike Source %REC RPD											
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 4H16048:	Prepared 08/16/04	Using E	PA 5030B									
Blank (4H16048-BLI	K1)											
Surrogate: Toluene-d8		19.5		ug/l	20.0		97.5	70-130				
Surrogate: 4-BFB		20.4		"	20.0		102	70-130				
LCS (4H16048-BS1)		_			· .							
Benzene		10.4	1.00	ug/l	10.0		104	80-120				
Chlorobenzene		11.2	1.00	n	10.0		112	77-120				
1,1-Dichloroethene		10.6	1.00	n	10.0		106	80-120				
Methyl tert-butyl ether		11.1	2.00	n	10.0		111	80-120				
Toluene		11.4	1.00	Π	10.0		114	80-120				
Trichloroethene		10.2	1.00	n	10.0		102	80-120				
Surrogate: 1,2-DCA-d4		19.5		"	20.0		97.5	70-130				
Surrogate: Toluene-d8		20.3		"	20.0		102	70-130				
Surrogate: 4-BFB		19.9		"	20.0		99.5	70-130				
LCS Dup (4H16048-)	BSD1)					_						
Benzene		10.5	1.00	ug/l	10.0		105	80-120	0.957	20		
Chlorobenzene		11.3	1.00	τι	10.0		113	77-120	0.889	20		
1,1-Dichloroethene		10.7	1.00	**	10.0		.107	80-120	0.939	20		
Methyl tert-butyl ether		10.6	2.00	શ	10.0		106	80-120	4.61	20		
Toluene		10.9	1.00	۳	10.0		109	80-120	4.48	20		
Trichloroethene		10.3	1.00	"	10.0		103	80-120	0.976	20		
Surrogate: 1,2-DCA-d4		19.6		i.	20.0		98.0	70-130				
Surrogate: Toluene-d8	·	20.8		"	20.0		104	70-130				
Surrogate: 4-BFB		20.3		"	20.0		102	70-130				

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 13 of 15

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ļ	TID C Commention	Project: Magic Cleaners	
	URS Corporation	Project Number: 33756663	Reported:
	1501 4th Ave, Suite 1400	Desit Desite Desite Persiteren	08/24/04 14:22
	Seattle, WA/USA 98101-1616	Project Manager: David Raubvogel	

Volatile Organic Compounds by GC/MS with Selected Ion Monitoring - Quality Control North Creek Analytical - Bothell

	1 L	orui Cre	ch Analy	lical - D						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4H23026: Prepared 08	20/04 Using E	PA 5030B		_				<u> </u>		
Blank (4H23026-BLK1)										
Vinyl chloride	ND	0.100	ug/l							
Surrogate: 1,2-DCA-d4	1.48		н	2.00		74.0	70-130			
Surrogate: Toluene-d8	2.12		"	2.00		106	70-130			
Surrogate: 4-BFB	2.11		**	2.00		106	70-130			
LCS (4H23026-BS1)										
Surrogate: 1,2-DCA-d4	1.46		ug/l	2.00		73.0	70-130			
Surrogate: Toluene-d8	2.15		n	2.00		108	70-130			
Surrogate: 4-BFB	2.00		r)	2.00		100	70-130			
LCS Dup (4H23026-BSD1)										
Surrogate: 1,2-DCA-d4	1.46		ug/l	2.00		73.0	70-130			
Surrogate: Toluene-d8	2.15		"	2.00		108	70-130			
Surrogate: 4-BFB	2.06		"	2.00		103	70-130			
Matrix Spike (4H23026-MS1)					Source:	B4H0295	-01			
Surrogate: 1,2-DCA-d4	1.47		ug/l	2.00	· -	73.5	70-130			
Surrogate: Toluene-d8	1.87		п	2.00		93.5	70-130			
Surrogate: 4-BFB	1.98		"	2.00		99.0	70-130			

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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Seattle 11720 North Creek Pkwy N, Suite 400, Botheli, WA 98011-8244 425.420.9200 fax 425.420.9210 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99205-4776 509.924.9200 fax 509.924.9290 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Anchorage 2000 W. International Airport Road, Suite A10, Ancho

me Ca			907.563.9200 fax 90	al Airport Road, Suite A10, Anchorage, AK 99502-1119 907-963-9210
	prporation h Ave, Suite 1400	Project: M Project Number: 33	Magic Cleaners	
	WA/USA 98101-1616	Project Manager: D		Reported: 08/24/04 14:22
		Notes and Defi		
DET	Analyte DETECTED		ALIONS	. [
ND	Analyte NOT DETECTED at or above t	the reporting limit		
NR	Not Reported	• •		· _
dry	Sample results reported on a dry weight	. basis		· · ·
RPD	Relative Percent Difference			
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Jeff Gerdes, Project Manager

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North Creek Analytical, Inc. Environmental Laboratory Network Page 15 of 15

North Creek Analytic Environmental Lebou www.ncelebs.com	atory Network	IN OF CU	STO	DY RE	East 11115 9405 20332	5 Montgomer S.W. Nimbu	ry, Suite B, Spoks s Avenue, Beaver nue, Suite F-1, B	nen, 777 986 777 8244 ane, WA 99206-4776 rton, OR 97008-7132 end, OR 97701-5711 Drder #:	(509) (503)	420-7200 FAA 720-72 924-9200 FAX 924-92 906-9200 FAX 906-92 383-9310 FAX 382-72	290
CLIENT: URS COT REPORT TO: David ADDRESS: 1501 4146 Seatoffic	Raubicsel Avenue suite	三十九王		се то: 5 А [~]						D REQUEST in Business ic & Inorganic Analyses	s Days*
PROJECT NAME: Margin	- CIECNEN	35-26C;G	P.O. NU	JMBER: REQUEST	ED ANALYSES			STD.	<u>5</u> 4	Please Specify	<1
PROJECT NUMBER: 337 S	56663	9						*Turnar	OTH	ER	h Charges.
CLIENT SAMPLE	SAMPLING	124						MATRIX	# 0F		NCA WO
IDENTIFICATION	DATE/TIME	32						(W, S, O)	CONT.	COMMENTS	ID
1.MW-5	5/10/04 /1055	$\left \mathcal{N} \right $						lu	3		-01
2. MW - 4	5/10/04/1150	\checkmark						in	3		-02
3.MW-3	8/14/04/1240	X						لمنها	3		-03
4.MW-6	5/15/04/1320	×						W	3		-04
5.											
6.									·		
7											
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9.											
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PRINT NAME:	FIRM:		TIME:		PRINT NAME:			FIRM:		TI	ME:
ADDITIONAL REMARKS:										TEMP:	

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OCT 1 2 2004 URS CORPORATION SEATTLE

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05 October 2004

David Raubvogel URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 RE: Magic Cleaners

Enclosed are the results of analyses for samples received by the laboratory on 09/21/04 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

. perdes

Jeff Gerdes Project Manager



 Seattle
 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

 425.420.9200 fax 425.420.8210

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 2000 W, International Airport Road, Suite A10, Anchorage, AK 99502-1119

 907.583.9200 fax 907.563.9210

URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID		Laboratory ID	Matrix	Date Sampled	Date Received
MW-2		B4I0556-01	Water	09/20/04 17:00	09/21/04 15:00
	به با با معتومو				

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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North Creek Analytical, Inc. Environmental Laboratory Network Page 1 of 9



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12 1

Volatile Organic Compounds by EPA Method 8260B North Creek Analytical - Bothell

· · · · · · · · · · · · · · · · · · ·		eporting	T 1	D:1-4	Detal	D	A 1 1	Mathad	Nata
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note:
MW-2 (B4I0556-01) Water	Sampled: 09/20/04 17:00	Received	l: 09/21/04	15:00					Q-24
Acetone	ND	20.0	ug/l	1	4J01019	09/29/04	09/29/04	EPA 8260B	
Benzene	ND	1.00	n		n	"	n	n	
Bromobenzene	ND	1.00	"	11		n	π	Ħ	
Bromochloromethane	ND	1.00	"	11	н	11	. #	t 7	
Bromodichloromethane	ND	1.00		Ħ	#	Ħ	11		
Bromoform	ND	1.00	41	11	"	11	"	et 1	
Bromomethane	ND	2.00	"	н	"		Ħ	n	
2-Butanone	ND	10.0	42	*	n	11	n	"	
n-Butylbenzene	ND	1.00	"	"	н	**	n	n	
sec-Butylbenzene	ND	1.00	47	n	"	"	r	"	
tert-Butylbenzene	ND	1.00	41	n	"	n	n	n	
Carbon disulfide	ND	1.00	n	n	н	π	n	n	
Carbon tetrachloride	ND	1.00	n	11	11	n	Ħ	'n	
Chlorobenzene	ND	1.00	"	n	11	n	π	n	
Chloroethane	ND	1.00	**	n	Ħ	17	n	n	
Chloroform	ND	1.00	"	n	'n	n	n	n	
Chloromethane	ND	5.00	Η.	"	Ħ	"	"	n i	
2-Chlorotoluene	ND	1.00	"	n	н		Ħ	n	
4-Chlorotoluene	ND	1.00		n	Ħ	*	11	"	
Dibromochloromethane	ND	1.00	11	n	47	4	n	**	
1,2-Dibromo-3-chloropropane	ND	5.00		n	Ħ	"	π	4	
1,2-Dibromoethane	ND	1.00	"	n	"	π	u		
Dibromomethane	ND	1.00	11	0	TI	π	"	n	
1,2-Dichlorobenzene	ND	1.00	"	н		n	11	n	
1,3-Dichlorobenzene	ND	1.00	**	11	#	11	11	n	
1,4-Dichlorobenzene	ND	1.00	"	11	н	n	n	n	
Dichlorodifluoromethane	ND	1.00	н	۳	n	ħ	"	11	
1,1-Dichloroethane	ND	1.00	n	11	n	n	"	e	
1,2-Dichloroethane	ND	1.00	**	11	••	n	n	"	
1,1-Dichloroethene	ND	1.00	17	11	11	n	41	"	
cis-1,2-Dichloroethene	ND	1.00	н	11	"	n	u	n	
trans-1,2-Dichloroethene	ND	1.00	n	ŧ	"	11	fi	*1	
1,2-Dichloropropane	ND	1.00	11	*1	"	11	ti	u j	
1,3-Dichloropropane	ND	1.00	n	u	"	"	11	н	
2,2-Dichloropropane	ND	1.00	ti		п	n	n	"	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 2 of 9

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

·		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B4I0556-01) Water	Sampled: 09/20/04 17:00	Received	: 09/21/04	15:00					Q-24
,1-Dichloropropene	ND	1.00	ug/l	1	4J01019	09/29/04	09/29/04	н	
cis-1,3-Dichloropropene	ND	1.00	tt	n	Ħ	*1	n	**	
rans-1,3-Dichloropropene	· ND	1.00	11	**	**	n	n	*1	
Ethylbenzene	ND	1.00	u	n	"	n	Ħ	20	
Hexachlorobutadiene	ND	1.00	n	**	'n	n	"	*1	
Methyl tert-butyl ether	ND	2.00	n	Ħ	**	"	*	11	
!-Hexanone	ND	10.0	n	11	*	"	**	11	
isopropylbenzene	ND	1.00	"	11	н	**	11	n	
n-Isopropyltoluene	ND	1.00	17	н	н	11	Ħ	n	
I-Methyl-2-pentanone	ND	10.0	**	н	н	п	a	n	
Methylene chloride	ND	5.00	11	ध	n	a	**	H	
Naphthalene	ND	1.00	n		"	et	**	n	
1-Propylbenzene	ND	1.00	n	"	4	11	**	*	
Styrene	ND	1.00	н	11	11	n	41	u	
1,2,3-Trichlorobenzene	ND	1.00	п	u	n	97	н	n	
1,2,4-Trichlorobenzene	ND	1.00	"	11	н	н	n	N	
1,1,1,2-Tetrachloroethane	ND	1.00	**	n	n	11	н	n	
1,1,2,2-Tetrachloroethane	ND	1.00	*1	"	Ħ	11	н	n	
Tetrachloroethene	1,63	1.00	**	n	н	н	ri		
Foluene	ND	1.00	11	**	"	tt	"	**	
1,1,1-Trichloroethane	ND	1.00	11	17	17	н	"	11	
1,1,2-Trichloroethane	ND	1.00	n	17	*1	*1	11	11	
Frichloroethene	ND	1.00	11	11	11	17	и	n	
Frichlorofluoromethane	ND	1.00	n	u	9	11	И	"	
1,2,3-Trichloropropane	ND	1.00	ti	н	n	n	11	**	
1,2,4-Trimethylbenzene	ND	1.00	**		**	н	**	"	
1,3,5-Trimethylbenzene	ND	1.00	"	11	79	"	**	n	
Vinyl chloride	ND	1.00	17	"	"	**	ę#	11	
)-Xylene	ND	1.00	**	17	11	11	11	n	
n,p-Xylene	ND	2.00	11	*1	"	11	η	FT	
Surrogate: 1,2-DCA-d4	103 %	70-130	-		"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-BFB	101 %	70-130			"	n	"	11	

North Creek Analytical - Bothell

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leff Gerdes, Project Manager



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616

Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12

Volatile Organic Compounds by GC/MS with Selected Ion Monitoring

North Creek Analytical - Bothell

		- Reporting						· · ·	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-2 (B410556-01) Water	Sampled: 09/20/04 17:	00 Received	1: 09/21/04	15:00					
Vinyl chloride	ND	0.100	ug/l	1	4J04068	10/04/04	10/04/04	EPA 8260B Mod	
Surrogate: 1,2-DCA-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	n	"	"	
Surrogate: 4-BFB	102 %	70-130			"	"	"	"	

North Creek Analytical - Bothell

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> North Creek Analytical, Inc. Environmental Laboratory Network

Page 4 of 9

Jeff Gerdes, Project Manager



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4J01019:	Prepared 09/29/04	Using EP	A 5030B			·	•		¹ .		
Blank (4J01019-BI	_K1)										
Acetone		ND	20.0	ug/l				-			
Benzene		ND	1.00	*1							
Bromobenzene		ND	1.00	ŧ							
Bromochloromethane		ND	1.00	n							
Bromodichloromethan	e	ND	1.00	н							
Bromoform		ND	1.00	11							
Bromomethane		ND	2.00	**							
2-Butanone		ND	10.0	11							
n-Butylbenzene		ND	1.00	11							
sec-Butylbenzene		ND	1.00	57							
tert-Butylbenzene		ND	1.00	"							
Carbon disulfide		ND	1.00	н							
Carbon tetrachloride		ND	1.00	11							
Chlorobenzene		ND	1.00	"							
Chloroethane		ND	1.00	"							
Chloroform		ND	1.00	u							
Chloromethane		ND	5.00	ŧ							
2-Chlorotoluene		ND	1.00								
4-Chlorotoluene	· .	ND	1.00	11							
Dibromochloromethan	e	ND	1.00	n							
1,2-Dibromo-3-chlorog	propane	ND	5.00	"							
1,2-Dibromoethane		ND	1.00	**							
Dibromomethane		ND	1.00	**							
1,2-Dichlorobenzene		ND	1.00	n							
1,3-Dichlorobenzene		ND	1.00	11							
1,4-Dichlorobenzene		ND	1.00	**							
Dichlorodifluorometha	ne	ND	1.00	n							
1,1-Dichloroethane		ND	1.00	u							
1,2-Dichloroethane		ND	1.00	**							
1,1-Dichloroethene		ND	1.00	11							
cis-1,2-Dichloroethene		ND	1.00	11							
trans-1,2-Dichloroethe	ne	- ND	1.00	n							
1,2-Dichloropropane		ND	1.00	11							

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616

Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4J01019: Prepared 09/29/04	Using EP	A 5030B								
Blank (4J01019-BLK1)								<u> </u>		
1,3-Dichloropropane	ND	1.00	ug/l						1	
2,2-Dichloropropane	ND	1.00	**				·			
1,1-Dichloropropene	ND	1.00	11							
cis-1,3-Dichloropropene	ND	1.00	H						1	
trans-1,3-Dichloropropene	ND	1.00	n							
Ethylbenzene	ND	1.00	n							
Hexachlorobutadiene	ND	1.00	Π						I.	
Methyl tert-butyl ether	ND	2.00	ti							
2-Hexanone	ND	10.0	**							
Isopropylbenzene	ND	1.00	11							
p-Isopropyltoluene	ND	1.00	tr							
4-Methyl-2-pentanone	ND	10.0	61							
Methylene chloride	ND	5.00	**							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	**							
Styrene	ND	1.00	*1						-	
1,2,3-Trichlorobenzene	ND	1.00	n							
1,2,4-Trichlorobenzene	ND	1.00	**							
1,1,1,2-Tetrachloroethane	ND	1.00	11							
1,1,2,2-Tetrachloroethane	ND	1.00								
Tetrachloroethene	ND	1.00	ħ							
Toluene	ND	1.00	1							
1,1,1-Trichloroethane	ND	1.00	11							
1,1,2-Trichloroethane	ND	1.00	"						1	
Trichloroethene	ND	1.00							1	
Trichlorofluoromethane	ND	1.00	tt						1	
1,2,3-Trichloropropane	ND	1.00	n						I.	
1,2,4-Trimethylbenzene	ND	1.00	H							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	Ħ						i.	
o-Xylene	ND	1.00	"						,	
m,p-Xylene	ND	2.00	tr						-	

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 6 of 9

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616 Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4J01019: Pro	epared 09/29/04	Using El	PA 5030B								
Blank (4J01019-BLK1)				·							
Surrogate: Toluene-d8		19.6		ug/l	20.0		98.0	70-130			
Surrogate: 4-BFB		20.2		n	20.0		101	70-130			
LCS (4J01019-BS1)											
Benzene		10.8	1.00	ug/l	10.0		108	80-120			
Chlorobenzene		10.7	1.00	Ħ	10.0		107	77-120			
1,1-Dichloroethene		11.6	1.00	"	10.0		116	80-120			
Methyl tert-butyl ether		9.44	2.00		10.0		94.4	80-120			
Toluene		10.9	1.00	17	10.0		109	80-120			
Trichloroethene		11.7	1.00	11	10.0		117	80-120			
Surrogate: 1,2-DCA-d4		20.1		"	20.0	-	100	70-130			
Surrogate: Toluene-d8		19.9		"	20.0		9 9.5	70-130			
Surrogate: 4-BFB		20.0		"	20.0		100	70-130			
LCS Dup (4J01019-BS)	D1)										
Benzene		10.5	1.00	ug/l	10.0		105	80-120	2.82	20	
Chlorobenzene		10.5	1.00	**	10.0		105	77-120	1.89	20	
1,1-Dichloroethene		11.3	1.00	"	10.0		113	80-120	2.62	20	
Methyl tert-butyl ether		8.97	2.00	n	10.0		89.7	80-120	5.11	20	
Toluene		10.5	1.00	н	10.0		105	80-120	3.74	20	
Trichloroethene		11.3	1.00	н	10.0		113	80-120	3.48	20	
Surrogate: 1,2-DCA-d4		19.9		"	20.0		99.5	70-130			
Surrogate: Toluene-d8		20.3		"	20.0		102	70-130			
Surrogate: 4-BFB		20.1		"	20.0		100	70-130			

North Creek Analytical - Bothell

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Gerdes, Project Manager



URS Corporation	
1501 4th Ave, Suite 1400	
Seattle, WA/USA 98101-1616	

Project: Magic Cleaners Project Number: 33756663 Project Manager: David Raubvogel

Reported: 10/05/04 13:12

4

Volatile Organic Compounds by GC/MS with Selected Ion Monitoring - Quality Control

North Creek Analytical - Bothell

		_	Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4J04068:	Prepared 10/04/04	Using EP	A 5030B					_			
Blank (4J04068-BL	K1)					-					
Vinyl chloride		ND	0.100	ug/l							
Surrogate: 1,2-DCA-d4		1.99		"	2.00	-	99.5	70-130	•		
Surrogate: Toluene-d8		2.00		"	2.00		100	70-130			
Surrogate: 4-BFB		2.09		"	2.00		104	70-130			
LCS (4J04068-BS1)											
Vinyl chloride		1.74	0.100	ug/l	2.00		87.0	70-130			
Surrogate: 1,2-DCA-d4	!	2.04		"	2.00		102	70-130			
Surrogate: Toluene-d8		2.16		n	2.00		108	70-130			
Surrogate: 4-BFB		2.07		"	2.00		104	70-130			
LCS Dup (4J04068-	BSD1)										
Vinyl chloride		1.77	0.100	ug/l	2.00		88.5	70-130	1.71	20	
Surrogate: 1,2-DCA-d4	!	1.99		"	2.00		99.5	70-130			
Surrogate: Toluene-d8		1.93		"	2.00		96.5	70-130			
Surrogate: 4-BFB		1.97		"	2.00		98.5	70-130			

North Creek Analytical - Bothell

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Jeff Gerdes

Jeff Gerdes, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network

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URS Corporation	Project: Magic Cleaners	
1501 4th Ave, Suite 1400	Project Number: 33756663	Reported:
Seattle, WA/USA 98101-1616	Project Manager: David Raubvogel	10/05/04 13:12

Notes and Definitions

Q-24	This sample was received at a pH>2 and analyzed outside of the method inadequately preserved samples.	d recommended hold time of seven days for unpreserved or
DET	Analyte DETECTED	 and a new constraint (addition)
ND	Analyte NOT DETECTED at or above the reporting limit	

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9 FAX 924-93 (509) 924-9200 (503) 906-9200 FAX 906-92 (541) 383-9310 FAX 382-7

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Environmental Laboratory Network		
www.ncalabs.com	CHAIN OF CUSTODY REPORT	Γ.

North Creek Analytical, Inc.

Work Order #: B4I0556

CLIENT: VZS				INVOICE TO:									TURNAROUND REQUEST in Business Days*							
REPORT TO: David Raubyugel ADDRESS: 15014th Au Suite 1400 Senttle WA 98101 PHONE 206438-2700 FAX:438-2699 PROJECT NAME: Magic Cleaners				SAME										Organic & Inorganic Analyses 7 5 4 3 2 1 < 1						
ADDRESS: 1501.4th Ace Suite 1800																				
Seattle WH 98101															STD. Petroleum Hydrocarbon Analyses					
PHONE (206) 438-2700 FAX: 438-2699					P.O. NUMBER:										5 4 3 2 1 <1					
PROJECT NAME: Magic	- Cleaners		· · · · · · · · · · · · · · · · · · ·		REC	QUESTE	EDANA	ALYSES	<u> </u>			STD. Please Specify								
PROJECT NUMBER: 33756663														OTHER						
												*Turnaround Requests less than standard may incur Rush Charges.								
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