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January 10, 2002

Ms. Pat Murrow
RCRA Permits and Compliance Branch
U.S. Environmental Protection Agency
Region VII
901 North 5th Street
Kansas City, Kansas 66101

Re: RFI/CMS Quarterly Progress Report No. 59
Harcros Chemicals Inc.
Kansas City, Kansas

Dear Ms. Murrow:

On behalf of Harcros Chemicals Inc. and T H Agriculture & Nutrition, L.L.C., we are enclosing three copies of the quarterly progress report for the RCRA Facility Investigation/Corrective Measures Study at the Harcros facility in Kansas City, Kansas. This progress report addresses the October through December 2001 reporting period.

Please do not hesitate to contact either Mr. John P. Cleary at THAN (913-888-2922) or Mr. Bob Chaney at Harcros (913-621-7772) if you have any questions or comments.

Very truly yours,
URS Corporation

Kathy J. Kissick-Davenport

Kathy Kissick-Davenport
Senior Project Manager

Enclosure

cc: Jack Cleary, THAN
Bob Chaney, Harcros
Mostafa Kamal, KDHE

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RCRA RECORDS CENTER

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QUARTERLY PROGRESS REPORT NO. 59
OCTOBER – DECEMBER 2001

RCRA FACILITY INVESTIGATION/CORRECTIVE MEASURES STUDY
HARCROS CHEMICALS INC.
KANSAS CITY, KANSAS FACILITY
EPA Docket No. VII-90-H-0028

This progress report summarizes completed activities and upcoming tasks on the RCRA Facility Investigation/Corrective Measures Study at the Harcros Chemicals Inc. facility in Kansas City, Kansas. In accordance with the Administrative Order on Consent, progress reports will be submitted on a quarterly basis. This report addresses the period of October through December 2001.

I. WORK COMPLETED AND ACTIVITIES CONDUCTED

Work Directly Related to the Administrative Order on Consent

- Soil Vapor Extraction System --Continued operation and monitoring of the SVE pilot system installed to evaluate the effectiveness of this technology in removing volatile organic compounds from vadose zone soils. Made arrangements with the Unified Government of Wyandotte County and Kansas City, Kansas for discharge of treated waters produced by the SVE system to the sanitary sewers. The SVE system was temporarily shut down in December to accommodate future collection of indoor air samples.

- Corrective Action Objectives Development Report – Harcros submitted responses to EPA's comments on the CAO Report dated September 13, 2001. These responses were transmitted to EPA on November 12, 2001 in accordance with the timeframe specified in EPA's October 9, 2001 correspondence. Harcros also transmitted additional information to EPA on November 12, 2001 as a supplement to Harcros' position on indoor air issues, specifically those related to OSHA permissible exposure levels.

  EPA's comments on Harcros' November 12, 2001submission were received on November 26, 2001. On December 11, 2001, Harcros notified EPA of their objection to EPA's disapproval of Harcros' position on indoor air and institutional controls. Dispute proceedings were invoked in that same correspondence and a meeting with EPA to informally resolve the outstanding issues was requested. This meeting took place on December 14, 2001. EPA summarized their understanding of the discussions and agreements reached in that meeting in a letter dated December 19, 2001.

  Both EPA and Harcros will submit their respective positions to the Director of Region VII's Air, RCRA and Toxics Division for resolution of the dispute on January 11, 2002.

- Groundwater Plume Control – Harcros and EPA continued discussions regarding containment and/or stabilization of groundwater contamination at the site. Several conference calls, meetings, and written exchanges occurred in October to attempt to reach a mutually agreeable approach. An amendment to the Administrative Order on Consent was executed on October 29, 2001.

  In accordance with the AOC amendment, a geoprobe investigation to define the extent of groundwater contamination above MCL's was initiated in late November 2001. Field work continued into December and is ongoing.

  An NPDES permit application was submitted to KDHE on December 21, 2001 for discharge of waters associated with a groundwater containment/stabilization system.

  Evaluation of groundwater containment and/or stabilization technologies was initiated.

- Groundwater Sampling and Analysis – A summary table providing all the non-validated analytical results of groundwater sampling conducted in August and September 2001 was provided to EPA on October 9, 2001. The preliminary results had been previously provided to the Agency in September. An updated summary table that incorporates the validated results is attached to this progress report.

  In accordance with the AOC amendment, the second round of facility-wide quarterly groundwater sampling was conducted between December 3 and 19, 2001. A compilation of water level measurements is attached. Analytical results are still pending.

Other Work Completed

- Performed fourth quarter 2001 groundwater sampling at the closed Surface Impoundment.

- Submitted a Monitoring Well Installation Work Plan to KDHE in response to their request for an additional monitoring well downgradient of the closed Surface Impoundment. The Work Plan was approved by KDHE on December 11, 2001.

II. SUMMARY OF FINDINGS

The preliminary report on detections from the August/September 2001 groundwater sampling, then subsequently a compilation of all the non-validated analytical results, were transmitted to EPA as described above. Validated analytical results from the August/September sampling event are attached. A summary of water level measurements collected in December 2001 are also included with this report.

III. SUMMARY OF PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED

Unresolved issues between THAN/Harcros and EPA include several items on the CAO Report.

IV. PROJECTED WORK FOR THE NEXT REPORTING PERIOD

Work Related to the Administrative Order on Consent

- A Work Plan for indoor air sampling will be submitted to EPA for review. The SVE system will remain shutdown until indoor air samples have been collected.

- Harcros will submit their position on disputed CAO Report issues to EPA's Region VII Director of Air, RCRA, and Toxics Division for resolution.

- Groundwater investigations will continue.

- Harcros will be in communication with KDHE regarding the NPDES permit application to respond to any questions that may arise and facilitate the review process.

- Analytical results from the December 2001 facility-wide groundwater sampling will be compiled and forwarded to EPA. The third round of quarterly sampling specified in the AOC amendment will be conducted in March.

- Evaluation of technologies to contain and/or stabilize the groundwater plume will continue.

Other Work

- The first quarter 2002 groundwater sampling of monitoring wells associated with the closed Surface Impoundment will be conducted in conjunction with the facility-wide groundwater monitoring to be performed in March.

- A new monitoring well will be installed downgradient of the closed Surface Impoundment per KDHE's request and in accordance with the approved Well Installation Work Plan.

Groundwater Elevations
Harcros Chemicals Inc.
Kansas City, Kansas
December 19, 2001

Well Number	Top of Pipe Elevation	Depth to Water (ft)	Elevation of Top of Water
MW1S	764.93	42.93	722.00
MW2	765.97	43.49	722.48
MW2D	765.79	43.39	722.40
MW3	765.04	43.13	721.91
MW5	766.94	45.13	721.81
MW5D	769.17	47.44	721.73
MW6	767.23	46.62	720.61
MW7	767.83	47.18	720.65
MW9S	765.97	44.35	721.62
MW10	763.72	42.06	721.66
MW11B	765.54	43.68	721.86
MW11D	765.42	43.46	721.96
MW12	765.53	43.68	721.85
MW14	763.80	42.56	721.24
MW17SA	761.49	39.97	721.52
MW17D	761.40	40.07	721.33
MW18S	764.61	42.68	721.93
MW19S	768.63	46.47	722.16
MW19D	769.17	47.12	722.05
MW20S	765.80	43.77	722.03
MW20D	765.70	43.75	721.95
MW21S	767.23	44.97	722.26
MW22S	764.15	43.07	721.08
MW22D	764.28	42.61	721.67
MW23S	766.80	45.06	721.74
MW24S	767.01	44.93	722.08
MW25S	765.44	43.39	722.05
MW25D	765.30	43.26	722.04
MW26S	766.82	44.88	721.94
MW27S	765.48	43.47	722.01
MW27D	765.48	43.47	722.01
MW28S	767.36	45.55	721.81
MW29S	768.56	46.95	721.61
MW30S	765.71	43.82	721.89
MW31S	748.20	25.55	722.65
MW32S	749.75	30.18	719.57
MW33S	745.39	25.69	719.70
MW34D	769.06	47.53	721.53
TMW1	765.50	43.43	722.07
TMW2	763.44	41.62	721.82
TMW4	762.17	40.17	722.00
P1	769.43	47.29	722.14
P2	766.09	43.93	722.16
P5	764.15	41.72	722.43
P8	764.78	42.78	722.00
P9	764.22	42.16	722.06

NA - Not Available
NR - Not Required

* - Monitoring Well MW-17S abandoned 4/95 and replaced with Well MW-17SA

FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-1S			MW-2			MW-2D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		250	ND		1	ND		1
Styrene	ND		250	ND		1	ND		1
cis-1,3-Dichloropropene	ND		250	ND		1	ND		1
trans-1,3-Dichloropropene	ND		250	ND		1	ND		1
1,2-Dichloroethane	ND		250	ND		1	ND		1
Vinyl acetate	ND		500	ND		2	ND		2
4-Methyl-2-pentanone	ND		1200	ND		5	ND		5
Toluene	ND		250	ND		1	ND		1
Chlorobenzene	ND		250	ND		1	ND		1
2-Chloroethyl vinyl ether	ND		500	ND		2	ND		2
Dibromochloromethane	ND		250	ND		1	ND		1
Tetrachloroethene	ND		250	ND		1	ND		1
Xylenes (total)	ND		500	ND		2	ND		2
1,2-Dichloroethene (total)	ND		250	ND		1	5.9		1
Carbon tetrachloride	ND		250	ND		1	ND		1
2-Hexanone	ND		1200	ND		5	ND		5
Acetone	23000		2500	ND		10	4.2	J	10
Chloroform	ND		250	ND		1	ND		1
Benzene	ND		250	ND		1	ND		1
1,1,1-Trichloroethane	ND		250	ND		1	ND		1
Bromomethane	ND		500	ND		2	ND		2
Chloromethane	ND		500	ND		2	ND		2
Chloroethane	ND		500	ND		2	ND		2
Vinyl chloride	ND		250	ND		1	0.64	J	1
Methylene chloride	ND		250	ND		1	ND		1
Carbon disulfide	ND		250	ND		1	ND		1
Bromoform	ND		250	ND		1	ND		1
Bromodichloromethane	ND		250	ND		1	ND		1
1,1-Dichloroethane	ND		250	ND		1	0.42	J	1
1,1-Dichloroethene	ND		250	ND		1	ND		1
1,2-Dichloropropane	ND		250	ND		1	ND		1
2-Butanone (MEK)	380	J	1200	ND		5	ND		5
1,1,2-Trichloroethane	ND		250	ND		1	ND		1
Trichloroethene	ND		250	ND		1	ND		1
1,1,2,2-Tetrachloroethane	ND		250	ND		1	ND		1

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-3			MW-5			MW-5D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		40	ND		50
Styrene	ND		1	ND		40	ND		50
cis-1,3-Dichloropropene	ND		1	ND		40	ND		50
trans-1,3-Dichloropropene	ND		1	ND		40	ND		50
1,2-Dichloroethane	ND		1	ND		40	ND		50
Vinyl acetate	ND		2	ND		80	ND		100
4-Methyl-2-pentanone	ND		5	ND		200	ND		250
Toluene	ND		1	ND		40	ND		50
Chlorobenzene	ND		1	ND		40	ND		50
2-Chloroethyl vinyl ether	ND		2	ND		80	ND		100
Dibromochloromethane	ND		1	ND		40	ND		50
Tetrachloroethene	ND		1	ND		40	ND		50
Xylenes (total)	ND		2	ND		80	ND		100
1,2-Dichloroethene (total)	1.2		1	**810**		40	**1000**		50
Carbon tetrachloride	ND		1	ND		40	ND		50
2-Hexanone	ND		5	ND		200	ND		250
Acetone	ND		10	ND		400	ND		500
Chloroform	ND		1	ND		40	ND		50
Benzene	ND		1	**27**	J	40	**34**	J	50
1,1,1-Trichloroethane	ND		1	ND		40	ND		50
Bromomethane	ND		2	ND		80	ND		100
Chloromethane	ND		2	ND		80	ND		100
Chloroethane	ND		2	ND		80	ND		100
Vinyl chloride	0.84	J	1	**1200**		40	**1200**		50
Methylene chloride	ND		1	ND		40	ND		50
Carbon disulfide	ND		1	ND		40	ND		50
Bromoform	ND		1	ND		40	ND		50
Bromodichloromethane	ND		1	ND		40	ND		50
1,1-Dichloroethane	ND		1	74		40	9.3	J	50
1,1-Dichloroethene	ND		1	**13**	J	40	ND		50
1,2-Dichloropropane	ND		1	ND		40	ND		50
2-Butanone (MEK)	ND		5	ND		200	ND		250
1,1,2-Trichloroethane	ND		1	ND		40	ND		50
Trichloroethene	ND		1	**28**	J	40	**13**	J	50
1,1,2,2-Tetrachloroethane	ND		1	ND		40	ND		50

ND =Not Detected at or above RL
J = Estimated result less than RL
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B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-6			MW-7			MW-207 (MW-7 DUP)		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		5	ND		4	ND		4
Styrene	ND		5	ND		4	ND		4
cis-1,3-Dichloropropene	ND		5	ND		4	ND		4
trans-1,3-Dichloropropene	ND		5	ND		4	ND		4
1,2-Dichloroethane	ND		5	ND		4	ND		4
Vinyl acetate	ND		10	ND		8	ND		8
4-Methyl-2-pentanone	ND		25	ND		20	ND		20
Toluene	ND		5	ND		4	ND		4
Chlorobenzene	ND		5	ND		4	ND		4
2-Chloroethyl vinyl ether	ND		10	ND		8	ND		8
Dibromochloromethane	ND		5	ND		4	ND		4
Tetrachloroethene	ND		5	**110**		4	**110**		4
Xylenes (total)	ND		10	ND		8	ND		8
1,2-Dichloroethene (total)	**120**		5	31		4	30		4
Carbon tetrachloride	ND		5	ND		4	ND		4
2-Hexanone	ND		25	ND		20	ND		20
Acetone	ND		50	9	J	40	7.6	J	40
Chloroform	ND		5	ND		4	ND		4
Benzene	2	J	5	ND		4	ND		4
1,1,1-Trichloroethane	ND		5	ND		4	ND		4
Bromomethane	ND		10	ND		8	ND		8
Chloromethane	ND		10	ND		8	ND		8
Chloroethane	ND		10	ND		8	ND		8
Vinyl chloride	**140**		5	**13**		4	**12**		4
Methylene chloride	ND		5	ND		4	ND		4
Carbon disulfide	ND		5	ND		4	ND		4
Bromoform	ND		5	ND		4	ND		4
Bromodichloromethane	ND		5	ND		4	ND		4
1,1-Dichloroethane	5.9		5	2	J	4	1.8	J	4
1,1-Dichloroethene	ND		5	3.4	J	4	3.1	J	4
1,2-Dichloropropane	ND		5	ND		4	ND		4
2-Butanone (MEK)	ND		25	ND		20	ND		20
1,1,2-Trichloroethane	ND		5	ND		4	ND		4
Trichloroethene	4.4	J	5	**46**		4	**40**		4
1,1,2,2-Tetrachloroethane	ND		5	ND		4	ND		4

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-9S			MW-10			MW-11B		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		1	ND		4
Styrene	ND		1	ND		1	ND		4
cis-1,3-Dichloropropene	ND		1	ND		1	ND		4
trans-1,3-Dichloropropene	ND		1	ND		1	ND		4
1,2-Dichloroethane	ND		1	ND		1	ND		4
Vinyl acetate	ND		2	ND		2	ND		8
4-Methyl-2-pentanone	ND		5	ND		5	ND		20
Toluene	ND		1	ND		1	ND		4
Chlorobenzene	ND		1	ND		1	4.1		4
2-Chloroethyl vinyl ether	ND		2	ND		2	ND		8
Dibromochloromethane	ND		1	ND		1	ND		4
Tetrachloroethene	ND		1	ND		1	ND		4
Xylenes (total)	ND		2	ND		2	ND		8
1,2-Dichloroethene (total)	ND		1	0.57	J	1	ND		4
Carbon tetrachloride	ND		1	ND		1	ND		4
2-Hexanone	ND		5	ND		5	ND		20
Acetone	2.7	J	10	ND		10	25	J	40
Chloroform	0.44	J	1	ND		1	ND		4
Benzene	ND		1	ND		1	**6.7**		4
1,1,1-Trichloroethane	0.28	J	1	ND		1	ND		4
Bromomethane	ND		2	ND		2	ND		8
Chloromethane	ND		2	ND		2	ND		8
Chloroethane	ND		2	ND		2	ND		8
Vinyl chloride	ND		1	ND		1	**6.2**		4
Methylene chloride	ND		1	ND		1	ND		4
Carbon disulfide	ND		1	ND		1	ND		4
Bromoform	ND		1	ND		1	ND		4
Bromodichloromethane	0.27	J	1	ND		1	ND		4
1,1-Dichloroethane	0.7	J	1	ND		1	ND		4
1,1-Dichloroethene	ND		1	ND		1	ND		4
1,2-Dichloropropane	ND		1	ND		1	ND		4
2-Butanone (MEK)	ND		5	ND		5	100		20
1,1,2-Trichloroethane	ND		1	ND		1	ND		4
Trichloroethene	0.38	J	1	1.1	**J**(3)	1	ND		4
1,1,2,2-Tetrachloroethane	ND		1	ND		1	ND		4

Notes:
(3) TCE in MS/MSD above upper control limit

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-11D			MW-12			MW-14		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	1.5	J	2	ND		200
Styrene	ND		1	ND		2	ND		200
cis-1,3-Dichloropropene	ND		1	ND		2	ND		200
trans-1,3-Dichloropropene	ND		1	ND		2	ND		200
1,2-Dichloroethane	ND		1	ND		2	ND		200
Vinyl acetate	ND		2	ND		4	ND		400
4-Methyl-2-pentanone	ND		5	4.6	J	10	ND		1000
Toluene	ND		1	0.76	J	2	ND		200
Chlorobenzene	ND		1	1.8	J	2	ND		200
2-Chloroethyl vinyl ether	ND		2	ND		4	ND		400
Dibromochloromethane	ND		1	ND		2	ND		200
Tetrachloroethene	ND		1	ND		2	ND		200
Xylenes (total)	ND		2	25		4	ND		400
1,2-Dichloroethene (total)	6.5		1	ND		2	ND		200
Carbon tetrachloride	ND		1	ND		2	ND		200
2-Hexanone	ND		5	ND		10	ND		1000
Acetone	2.7	J	10	ND		20	15000		2000
Chloroform	ND		1	ND		2	ND		200
Benzene	ND		1	**11**		2	ND		200
1,1,1-Trichloroethane	ND		1	ND		2	ND		200
Bromomethane	ND		2	ND		4	ND		400
Chloromethane	ND		2	ND		4	ND		400
Chloroethane	ND		2	ND		4	ND		400
Vinyl chloride	**3.1**		1	**4.7**		2	ND		200
Methylene chloride	ND		1	ND		2	ND		200
Carbon disulfide	ND		1	0.73	J	2	ND		200
Bromoform	ND		1	ND		2	ND		200
Bromodichloromethane	ND		1	ND		2	ND		200
1,1-Dichloroethane	0.54	J	1	ND		2	ND		200
1,1-Dichloroethene	ND		1	ND		2	ND		200
1,2-Dichloropropane	ND		1	ND		2	ND		200
2-Butanone (MEK)	3.2	J	5	6	J	10	ND		1000
1,1,2-Trichloroethane	ND		1	ND		2	ND		200
Trichloroethene	ND		1	ND		2	ND		200
1,1,2,2-Tetrachloroethane	ND		1	ND		2	ND		200

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-17SA			MW-17D			MW-18S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		1	5.6		2
Styrene	ND		1	ND		1	ND		2
cis-1,3-Dichloropropene	ND		1	ND		1	ND		2
trans-1,3-Dichloropropene	ND		1	ND		1	ND		2
1,2-Dichloroethane	ND		1	ND		1	ND		2
Vinyl acetate	ND		2	ND		2	ND		4
4-Methyl-2-pentanone	ND		5	ND		5	ND		10
Toluene	ND		1	ND		1	ND		2
Chlorobenzene	ND		1	ND		1	ND		2
2-Chloroethyl vinyl ether	ND		2	ND		2	ND		4
Dibromochloromethane	ND		1	ND		1	ND		2
Tetrachloroethene	0.84	J	1	ND		1	ND		2
Xylenes (total)	ND		2	ND		2	ND		4
1,2-Dichloroethene (total)	1.4		1	19		1	58		2
Carbon tetrachloride	ND		1	ND		1	ND		2
2-Hexanone	ND		5	ND		5	ND		10
Acetone	ND		10	3.0	J	10	5.5	J	20
Chloroform	ND		1	ND		1	ND		2
Benzene	ND		1	ND		1	1	J	2
1,1,1-Trichloroethane	ND		1	ND		1	ND		2
Bromomethane	ND		2	ND		2	ND		4
Chloromethane	ND		2	0.30	J	2	ND		4
Chloroethane	ND		2	ND		2	ND		4
Vinyl chloride	ND		1	**3.7**		1	**53**		2
Methylene chloride	ND		1	ND		1	ND		2
Carbon disulfide	ND		1	ND		1	ND		2
Bromoform	ND		1	ND		1	ND		2
Bromodichloromethane	ND		1	ND		1	ND		2
1,1-Dichloroethane	ND		1	1.1		1	8.1		2
1,1-Dichloroethene	ND		1	ND		1	ND		2
1,2-Dichloropropane	ND		1	ND		1	ND		2
2-Butanone (MEK)	ND		5	8.8		5	3.4	J	10
1,1,2-Trichloroethane	ND		1	ND		1	ND		2
Trichloroethene	0.5	J	1	ND		1	0.55	J	2
1,1,2,2-Tetrachloroethane	ND		1	ND		1	ND		2

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FINAL ANALYTICAL RESULTS
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	MW-19S			MW-19D			MW-20S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		1	ND		1
Styrene	ND		1	ND		1	ND		1
cis-1,3-Dichloropropene	ND		1	ND		1	ND		1
trans-1,3-Dichloropropene	ND		1	ND		1	ND		1
1,2-Dichloroethane	ND		1	ND		1	ND		1
Vinyl acetate	ND		2	ND		2	ND		2
4-Methyl-2-pentanone	ND		5	ND		5	ND		5
Toluene	ND		1	ND		1	ND		1
Chlorobenzene	ND		1	ND		1	ND		1
2-Chloroethyl vinyl ether	ND		2	ND		2	ND		2
Dibromochloromethane	ND		1	ND		1	ND		1
Tetrachloroethene	**31**		1	2		1	0.37	J	1
Xylenes (total)	ND		2	ND		2	ND		2
1,2-Dichloroethene (total)	19		1	2.4		1	ND		1
Carbon tetrachloride	ND		1	ND		1	4.1		1
2-Hexanone	ND		5	ND		5	ND		5
Acetone	ND		10	ND		10	ND		10
Chloroform	ND		1	ND		1	1.7		1
Benzene	ND		1	ND		1	ND		1
1,1,1-Trichloroethane	ND		1	ND		1	ND		1
Bromomethane	ND		2	ND		2	ND		2
Chloromethane	ND		2	ND		2	ND		2
Chloroethane	ND		2	ND		2	ND		2
Vinyl chloride	1.9		1	ND		1	ND		1
Methylene chloride	ND		1	ND		1	ND		1
Carbon disulfide	ND		1	ND		1	ND		1
Bromoform	ND		1	ND		1	ND		1
Bromodichloromethane	ND		1	ND		1	ND		1
1,1-Dichloroethane	ND		1	ND		1	ND		1
1,1-Dichloroethene	ND		1	ND		1	ND		1
1,2-Dichloropropane	ND		1	ND		1	ND		1
2-Butanone (MEK)	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	ND		1	ND		1	ND		1
Trichloroethene	**22**		1	1.8	J(3)	1	ND		1
1,1,2,2-Tetrachloroethane	ND		1	ND		1	ND		1

Notes:
(3) TCE in MS/MSD above upper control limit

ND =Not Detected at or above RL
J = Estimated result less than RL
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D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	MW-20D			MW-21S			MW-22S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		2	ND		1	ND		1
Styrene	ND		2	ND		1	ND		1
cis-1,3-Dichloropropene	ND		2	ND		1	ND		1
trans-1,3-Dichloropropene	ND		2	ND		1	ND		1
1,2-Dichloroethane	ND		2	ND		1	ND		1
Vinyl acetate	ND		4	ND		2	ND		2
4-Methyl-2-pentanone	ND		10	ND		5	ND		5
Toluene	ND		2	ND		1	ND		1
Chlorobenzene	ND		2	ND		1	ND		1
2-Chloroethyl vinyl ether	ND		4	ND		2	ND		2
Dibromochloromethane	ND		2	ND		1	ND		1
Tetrachloroethene	**110**		2	4.9		1	**24**		1
Xylenes (total)	ND		4	ND		2	ND		2
1,2-Dichloroethene (total)	7.2		2	ND		1	59		1
Carbon tetrachloride	ND		2	ND		1	ND		1
2-Hexanone	ND		10	ND		5	ND		5
Acetone	ND		20	ND		10	ND		10
Chloroform	ND		2	ND		1	ND		1
Benzene	ND		2	ND		1	ND		1
1,1,1-Trichloroethane	ND		2	ND		1	6.4		1
Bromomethane	ND		4	ND		2	ND		2
Chloromethane	ND		4	ND		2	ND		2
Chloroethane	ND		4	ND		2	ND		2
Vinyl chloride	ND		2	ND		1	**25**		1
Methylene chloride	ND		2	ND		1	ND		1
Carbon disulfide	ND		2	ND		1	ND		1
Bromoform	ND		2	ND		1	ND		1
Bromodichloromethane	ND		2	ND		1	ND		1
1,1-Dichloroethane	ND		2	ND		1	20		1
1,1-Dichloroethene	ND		2	ND		1	6.8		1
1,2-Dichloropropane	ND		2	ND		1	ND		1
2-Butanone (MEK)	ND		10	ND		5	ND		5
1,1,2-Trichloroethane	ND		2	ND		1	ND		1
Trichloroethene	**32**		2	0.43	**J**(3)	1	**44**		1
1,1,2,2-Tetrachloroethane	ND		2	ND		1	ND		1

Notes:
(3) TCE in MS/MSD above upper control limit

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FINAL ANALYTICAL RESULTS
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	MW-22D			MW-222D (MW-22 DUP)			MW-23S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		2.5	ND		2.5	ND		1
Styrene	ND		2.5	ND		2.5	ND		1
cis-1,3-Dichloropropene	ND		2.5	ND		2.5	ND		1
trans-1,3-Dichloropropene	ND		2.5	ND		2.5	ND		1
1,2-Dichloroethane	ND		2.5	ND		2.5	ND		1
Vinyl acetate	ND		5	ND		5	ND		2
4-Methyl-2-pentanone	ND		12	ND		12	ND		5
Toluene	ND		2.5	ND		2.5	ND		1
Chlorobenzene	ND		2.5	ND		2.5	ND		1
2-Chloroethyl vinyl ether	ND		5	ND		5	ND		2
Dibromochloromethane	ND		2.5	ND		2.5	ND		1
Tetrachloroethene	**11**		2.5	**12**		2.5	ND		1
Xylenes (total)	ND		5	ND		5	ND		2
1,2-Dichloroethene (total)	**82**		2.5	**92**		2.5	1.1		1
Carbon tetrachloride	ND		2.5	ND		2.5	ND		1
2-Hexanone	ND		12	ND		12	ND		5
Acetone	ND		25	ND		25	ND		10
Chloroform	ND		2.5	ND		2.5	ND		1
Benzene	ND		2.5	0.53	J	2.5	ND		1
1,1,1-Trichloroethane	6		2.5	6.7		2.5	0.76	J	1
Bromomethane	ND		5	ND		5	ND		2
Chloromethane	0.79	J	5	ND		5	ND		2
Chloroethane	ND		5	ND		5	ND		2
Vinyl chloride	**41**		2.5	**44**		2.5	**12**		1
Methylene chloride	ND		2.5	ND		2.5	ND		1
Carbon disulfide	ND		2.5	ND		2.5	0.21	J	1
Bromoform	ND		2.5	ND		2.5	ND		1
Bromodichloromethane	ND		2.5	ND		2.5	ND		1
1,1-Dichloroethane	13		2.5	14		2.5	4.0		1
1,1-Dichloroethene	4.2		2.5	4.6		2.5	ND		1
1,2-Dichloropropane	ND		2.5	ND		2.5	ND		1
2-Butanone (MEK)	ND		12	4.9	J	12	ND		5
1,1,2-Trichloroethane	ND		2.5	ND		2.5	ND		1
Trichloroethene	**27**		2.5	**30**		2.5	ND		1
1,1,2,2-Tetrachloroethane	ND		2.5	ND		2.5	ND		1

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FINAL ANALYTICAL RESULTS
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HARCROS, KANSAS CITY, KS

	MW-24S			MW-25S			MW-25D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	**1500**		50	ND		50	ND		1
Styrene	ND		50	ND		50	ND		1
cis-1,3-Dichloropropene	ND		50	ND		50	ND		1
trans-1,3-Dichloropropene	ND		50	ND		50	ND		1
1,2-Dichloroethane	ND		50	ND		50	ND		1
Vinyl acetate	ND		100	ND		100	ND		2
4-Methyl-2-pentanone	ND		250	ND		250	ND		5
Toluene	16	J	50	ND		50	ND		1
Chlorobenzene	ND		50	ND		50	ND		1
2-Chloroethyl vinyl ether	ND		100	ND		100	ND		2
Dibromochloromethane	ND		50	ND		50	ND		1
Tetrachloroethene	ND		50	ND		50	ND		1
Xylenes (total)	3100		100	ND		100	ND		2
1,2-Dichloroethene (total)	ND		50	**1100**		50	27		1
Carbon tetrachloride	ND		50	ND		50	ND		1
2-Hexanone	ND		250	ND		250	ND		5
Acetone	ND		500	ND		500	**ND**[(2)]		10
Chloroform	ND		50	ND		50	ND		1
Benzene	**22**	J	50	**73**		50	1.1		1
1,1,1-Trichloroethane	ND		50	ND		50	ND		1
Bromomethane	ND		100	ND		100	ND		2
Chloromethane	ND		100	ND		100	ND		2
Chloroethane	ND		100	12	J	100	ND		2
Vinyl chloride	ND		50	**1400**		50	**49**		1
Methylene chloride	ND		50	ND		50	ND		1
Carbon disulfide	ND		50	ND		50	0.71	J	1
Bromoform	ND		50	ND		50	ND		1
Bromodichloromethane	ND		50	ND		50	ND		1
1,1-Dichloroethane	ND		50	17	J	50	0.76	J	1
1,1-Dichloroethene	ND		50	ND		50	ND		1
1,2-Dichloropropane	ND		50	ND		50	ND		1
2-Butanone (MEK)	ND		250	ND		250	ND		5
1,1,2-Trichloroethane	ND		50	ND		50	ND		1
Trichloroethene	ND		50	ND		50	ND		1
1,1,2,2-Tetrachloroethane	ND		50	ND		50	ND		1

Notes:
(2) Acetone < 10X amount in trip blank

ND =Not Detected at or above RL
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FINAL ANALYTICAL RESULTS
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HARCROS, KANSAS CITY, KS

	MW-26S			MW-27S			MW-227S (MW-27 DUP)		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		50	ND		200	ND		200
Styrene	ND		50	ND		200	ND		200
cis-1,3-Dichloropropene	ND		50	ND		200	ND		200
trans-1,3-Dichloropropene	ND		50	ND		200	ND		200
1,2-Dichloroethane	ND		50	ND		200	ND		200
Vinyl acetate	ND		100	ND		400	ND		400
4-Methyl-2-pentanone	ND		250	ND		1000	ND		1000
Toluene	ND		50	ND		200	ND		200
Chlorobenzene	21	J	50	ND		200	ND		200
2-Chloroethyl vinyl ether	ND		100	ND		400	ND		400
Dibromochloromethane	ND		50	ND		200	ND		200
Tetrachloroethene	ND		50	**9200**		200	**10000**		200
Xylenes (total)	ND		100	ND		400	ND		400
1,2-Dichloroethene (total)	**1200**		50	**2700**		200	**2800**		200
Carbon tetrachloride	ND		50	ND		200	ND		200
2-Hexanone	ND		250	ND		1000	ND		1000
Acetone	ND		500	ND		2000	ND		2000
Chloroform	ND		50	ND		200	ND		200
Benzene	**38**	J	50	ND		200	ND		200
1,1,1-Trichloroethane	ND		50	ND		200	ND		200
Bromomethane	ND		100	ND		400	ND		400
Chloromethane	ND		100	ND		400	ND		400
Chloroethane	ND		100	ND		400	ND		400
Vinyl chloride	**1500**		50	**120**	J	200	**130**	J	200
Methylene chloride	ND		50	ND		200	ND		200
Carbon disulfide	ND		50	ND		200	ND		200
Bromoform	ND		50	ND		200	ND		200
Bromodichloromethane	ND		50	ND		200	ND		200
1,1-Dichloroethane	13	J	50	ND		200	ND		200
1,1-Dichloroethene	ND		50	**43**	J	200	**48**	J	200
1,2-Dichloropropane	ND		50	ND		200	ND		200
2-Butanone (MEK)	ND		250	ND		1000	ND		1000
1,1,2-Trichloroethane	ND		50	ND		200	ND		200
Trichloroethene	ND		50	**7000**		200	**7200**		200
1,1,2,2-Tetrachloroethane	ND		50	ND		200	ND		200

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FINAL ANALYTICAL RESULTS
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HARCROS, KANSAS CITY, KS

	MW-27D			MW-28S			MW-29S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		1	ND		1
Styrene	ND		1	ND		1	ND		1
cis-1,3-Dichloropropene	ND		1	ND		1	ND		1
trans-1,3-Dichloropropene	ND		1	ND		1	ND		1
1,2-Dichloroethane	ND		1	ND		1	ND		1
Vinyl acetate	ND		2	ND		2	ND		2
4-Methyl-2-pentanone	ND		5	ND		5	ND		5
Toluene	ND		1	ND		1	ND		1
Chlorobenzene	ND		1	ND		1	1.1		1
2-Chloroethyl vinyl ether	ND		2	ND		2	ND		2
Dibromochloromethane	ND		1	ND		1	ND		1
Tetrachloroethene	3.9		1	ND		1	ND		1
Xylenes (total)	ND		2	ND		2	ND		2
1,2-Dichloroethene (total)	1.0		1	ND		1.0	1.7		1
Carbon tetrachloride	ND		1	ND		1	ND		1
2-Hexanone	ND		5	ND		5	ND		5
Acetone	ND		10	3.7	J	10	2.8	J	10
Chloroform	ND		1	ND		1	ND		1
Benzene	ND		1	ND		1	ND		1
1,1,1-Trichloroethane	ND		1	ND		1	ND		1
Bromomethane	ND		2	0.49	J	2	ND		2
Chloromethane	ND		2	0.53	J	2	ND		2
Chloroethane	ND		2	ND		2	ND		2
Vinyl chloride	ND		1	ND		1	**4.0**		1
Methylene chloride	ND		1	ND		1	ND		1
Carbon disulfide	ND		1	ND		1	ND		1
Bromoform	ND		1	ND		1	ND		1
Bromodichloromethane	ND		1	ND		1	ND		1
1,1-Dichloroethane	ND		1	ND		1	0.27	J	1
1,1-Dichloroethene	ND		1	ND		1	ND		1
1,2-Dichloropropane	ND		1	ND		1	ND		1
2-Butanone (MEK)	ND		5	7.8		5	ND		5
1,1,2-Trichloroethane	ND		1	ND		1	ND		1
Trichloroethene	0.98	J	1	ND		1	ND		1
1,1,2,2-Tetrachloroethane	ND		1	ND		1	ND		1

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FINAL ANALYTICAL RESULTS
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	MW-229S (MW-29 DUP)			MW-30S			MW-31S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		50	ND		1
Styrene	ND		1	ND		50	ND		1
cis-1,3-Dichloropropene	ND		1	ND		50	ND		1
trans-1,3-Dichloropropene	ND		1	ND		50	ND		1
1,2-Dichloroethane	ND		1	ND		50	ND		1
Vinyl acetate	ND		2	ND		100	ND		2
4-Methyl-2-pentanone	ND		5	ND		250	ND		5
Toluene	ND		1	ND		50	ND		1
Chlorobenzene	1.2		1	44	J	50	ND		1
2-Chloroethyl vinyl ether	ND		2	ND		100	ND		2
Dibromochloromethane	ND		1	ND		50	ND		1
Tetrachloroethene	ND		1	**76**		50	ND		1
Xylenes (total)	ND		2	ND		100	ND		2
1,2-Dichloroethene (total)	2.0		1	**620**		50	14		1
Carbon tetrachloride	ND		1	ND		50	ND		1
2-Hexanone	ND		5	ND		250	ND		5
Acetone	ND		10	ND		500	ND		10
Chloroform	ND		1	ND		50	ND		1
Benzene	ND		1	**74**		50	ND		1
1,1,1-Trichloroethane	ND		1	ND		50	ND		1
Bromomethane	ND		2	ND		100	ND		2
Chloromethane	ND		2	ND		100	ND		2
Chloroethane	ND		2	ND		100	ND		2
Vinyl chloride	**4.6**		1	**2300**		50	ND		1
Methylene chloride	ND		1	ND		50	ND		1
Carbon disulfide	ND		1	ND		50	ND		1
Bromoform	ND		1	ND		50	ND		1
Bromodichloromethane	ND		1	ND		50	ND		1
1,1-Dichloroethane	0.33	J	1	23	J	50	0.84	J	1
1,1-Dichloroethene	ND		1	ND		50	ND		1
1,2-Dichloropropane	ND		1	ND		50	ND		1
2-Butanone (MEK)	ND		5	ND		250	ND		5
1,1,2-Trichloroethane	ND		1	ND		50	ND		1
Trichloroethene	ND		1	**87**		50	ND		1
1,1,2,2-Tetrachloroethane	ND		1	ND		50	ND		1

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FINAL ANALYTICAL RESULTS
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HARCROS, KANSAS CITY, KS

	MW-32S			MW-33S			MW-34D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		1	ND		10
Styrene	ND		1	ND		1	ND		10
cis-1,3-Dichloropropene	ND		1	ND		1	ND		10
trans-1,3-Dichloropropene	ND		1	ND		1	ND		10
1,2-Dichloroethane	ND		1	ND		1	ND		10
Vinyl acetate	ND		2	ND		2	ND		20
4-Methyl-2-pentanone	ND		5	ND		5	ND		50
Toluene	ND		1	ND		1	ND		10
Chlorobenzene	ND		1	ND		1	ND		10
2-Chloroethyl vinyl ether	ND		2	ND		2	ND		20
Dibromochloromethane	ND		1	ND		1	ND		10
Tetrachloroethene	ND		1	ND		1	ND		10
Xylenes (total)	ND		2	ND		2	ND		20
1,2-Dichloroethene (total)	6.0		1	3.1		1	**210**		10
Carbon tetrachloride	ND		1	ND		1	ND		10
2-Hexanone	ND		5	ND		5	ND		50
Acetone	ND		10	2.6	J	10	ND		100
Chloroform	ND		1	ND		1	ND		10
Benzene	ND		1	ND		1	4.0	J	10
1,1,1-Trichloroethane	ND		1	ND		1	ND		10
Bromomethane	ND		2	ND		2	ND		20
Chloromethane	ND		2	0.42	J	2	ND		20
Chloroethane	ND		2	ND		2	ND		20
Vinyl chloride	ND		1	ND		1	**420**		10
Methylene chloride	ND		1	ND		1	ND		10
Carbon disulfide	ND		1	ND		1	ND		10
Bromoform	ND		1	ND		1	ND		10
Bromodichloromethane	ND		1	ND		1	ND		10
1,1-Dichloroethane	0.33	J	1	0.19	J	1	29		10
1,1-Dichloroethene	ND		1	ND		1	2.7	J	10
1,2-Dichloropropane	ND		1	ND		1	ND		10
2-Butanone (MEK)	ND		5	ND		5	ND		50
1,1,2-Trichloroethane	ND		1	ND		1	ND		10
Trichloroethene	ND		1	ND		1	ND		10
1,1,2,2-Tetrachloroethane	ND		1	ND		1	ND		10

ND =Not Detected at or above RL
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FINAL ANALYTICAL RESULTS
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	TMW-1			TMW-2			TMW-4		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)									
Ethylbenzene	ND		1	ND		20	ND		1
Styrene	ND		1	ND		20	ND		1
cis-1,3-Dichloropropene	ND		1	ND		20	ND		1
trans-1,3-Dichloropropene	ND		1	ND		20	ND		1
1,2-Dichloroethane	ND		1	ND		20	ND		1
Vinyl acetate	ND		2	ND		40	ND		2
4-Methyl-2-pentanone	ND		5	ND		100	ND		5
Toluene	ND		1	ND		20	ND		1
Chlorobenzene	ND		1	ND		20	ND		1
2-Chloroethyl vinyl ether	ND		2	ND		40	ND		2
Dibromochloromethane	ND		1	ND		20	ND		1
Tetrachloroethene	0.77	J	1	ND		20	ND		1
Xylenes (total)	ND		2	ND		40	ND		2
1,2-Dichloroethene (total)	ND		1	ND		20	ND		1
Carbon tetrachloride	ND		1	ND		20	ND		1
2-Hexanone	ND		5	ND		100	ND		5
Acetone	ND		10	1400		200	4.4	J	10
Chloroform	ND		1	ND		20	ND		1
Benzene	ND		1	ND		20	ND		1
1,1,1-Trichloroethane	ND		1	ND		20	ND		1
Bromomethane	ND		2	ND		40	ND		2
Chloromethane	ND		2	ND		40	ND		2
Chloroethane	ND		2	ND		40	ND		2
Vinyl chloride	ND		1	ND		20	ND		1
Methylene chloride	ND		1	ND		20	ND		1
Carbon disulfide	ND		1	ND		20	ND		1
Bromoform	ND		1	ND		20	ND		1
Bromodichloromethane	ND		1	ND		20	ND		1
1,1-Dichloroethane	ND		1	ND		20	ND		1
1,1-Dichloroethene	ND		1	ND		20	ND		1
1,2-Dichloropropane	ND		1	ND		20	ND		1
2-Butanone (MEK)	ND		5	ND		100	ND		5
1,1,2-Trichloroethane	ND		1	ND		20	ND		1
Trichloroethene	ND		1	ND		20	ND		1
1,1,2,2-Tetrachloroethane	ND		1	ND		20	ND		1

ND =Not Detected at or above RL
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FINAL ANALYTICAL RESULTS
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	RGW-1S			RGW-1D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Volatile Organics (ug/L)						
Ethylbenzene	33		20	ND		1
Styrene	ND		20	ND		1
cis-1,3-Dichloropropene	ND		20	ND		1
trans-1,3-Dichloropropene	ND		20	ND		1
1,2-Dichloroethane	ND		20	ND		1
Vinyl acetate	ND		40	ND		2
4-Methyl-2-pentanone	22	J	100	ND		5
Toluene	9.9	J	20	ND		1
Chlorobenzene	17	J	20	ND		1
2-Chloroethyl vinyl ether	ND		40	ND		2
Dibromochloromethane	ND		20	ND		1
Tetrachloroethene	ND		20	ND		1
Xylenes (total)	410		40	ND		2
1,2-Dichloroethene (total)	ND		20	31		1
Carbon tetrachloride	ND		20	ND		1
2-Hexanone	ND		100	ND		5
Acetone	140	J	200	**ND**(2)		10
Chloroform	ND		20	ND		1
Benzene	4.5	J	20	0.76	J	1
1,1,1-Trichloroethane	ND		20	ND		1
Bromomethane	ND		40	ND		2
Chloromethane	ND		40	ND		2
Chloroethane	8.0	J	40	ND		2
Vinyl chloride	**87**		20	**29**		1
Methylene chloride	ND		20	ND		1
Carbon disulfide	ND		20	ND		1
Bromoform	ND		20	ND		1
Bromodichloromethane	ND		20	ND		1
1,1-Dichloroethane	ND		20	2.1		1
1,1-Dichloroethene	ND		20	0.29	J	1
1,2-Dichloropropane	ND		20	ND		1
2-Butanone (MEK)	65	J	100	ND		5
1,1,2-Trichloroethane	ND		20	ND		1
Trichloroethene	ND		20	0.37	J	1
1,1,2,2-Tetrachloroethane	ND		20	ND		1

Notes:
(2) Acetone < 10X amount in trip blank

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	MW-1S			MW-2			MW-2D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	ND		0.01	9	Q	0.02	ND		0.01
Chloride	25.2		3	4		3	42.5		3
Sulfate	64.8	Q	25	203	Q	25	129	Q	25
Total Organic Carbon	20.2		1	2.6		1	2		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	490	J(1)	5	442	J(1)	5	456	J(1)	5
Dissolved Gases (µg/L)									
Methane	2.5	B	0.5	120	D B	1.5	610	D B	5
Ethane	ND		0.5	0.24	J	0.5	1.6		0.5
Ethene	ND		0.5	ND		0.5	ND		0.5
Metals (µg/L)									
Iron-DISS	5370		100	954		100	3820		100
Manganese-DISS	734		10	429		10	1490		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	MW-3			MW-5			MW-5D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.029		0.01	0.025		0.01	ND		0.01
Chloride	7.1		3	104	Q	30	95.0	Q	15
Sulfate	100	Q	25	534	Q	100	271	Q	50
Total Organic Carbon	1.8		1	7.7		1	6.6		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	430	**J**(1)	5	546	**J**(1)	5	475	**J**(1)	5
Dissolved Gases (µg/L)									
Methane	5.4	B	0.5	810	D B **J**(5)	10	590	D B	10
Ethane	ND		0.5	0.13	J(5)	0.5	0.14	J	0.5
Ethene	ND		0.5	11	**J**(5)	0.5	140		0.5
Metals (µg/L)									
Iron-DISS	11100		100	20500		100	1960		100
Manganese-DISS	484		10	2020		10	1960		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time
(5) Hold time exceeded by 1 day.

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

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	MW-6			MW-7			MW-207 (MW-7 DUP)		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.0061	B	0.01	0.095		0.01	0.088		0.01
Chloride	54.2	Q	15	30.3		3	26.7		3
Sulfate	169	Q	25	30.8		5	31.5		5
Total Organic Carbon	4		1	3.3		1	3.6		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	410	**J**(1)	5	504	**J**(1)	5	487	**J**(1)	5
Dissolved Gases (µg/L)									
Methane	370	D B	3	280	D B	3	280	D B	3
Ethane	0.24	J	0.5	ND		0.5	ND		0.5
Ethene	24		0.5	0.55		0.5	0.52		0.5
Metals (µg/L)									
Iron-DISS	2620		100	36	B	100	34.6	B	100
Manganese-DISS	1190		10	253		10	253		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

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	MW-9S			MW-10			MW-11B		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.22		0.01	0.014		0.01	ND		0.01
Chloride	23.5		3	42.7		3	19.3		3
Sulfate	84.6	Q	25	163	Q	25	49.9	Q	25
Total Organic Carbon	2.5		1	1.6		1	21.7		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	362	**J**(1)	5	440	**J**(1)	5	541	**J**(1)	5
Dissolved Gases (µg/L)									
Methane	NA			**ND**(6)	B	0.5	280	D B	3
Ethane	NA			ND		0.5	ND		0.5
Ethene	NA			ND		0.5	ND		0.5
Metals (µg/L)									
Iron-DISS	405		100	3740		100	4160		100
Manganese-DISS	197		10	1890		10	2050		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time
(6) Method blank contained methane.

ND =Not Detected at or above RL
J = Estimated result less than RL
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	MW-11D			MW-12			MW-14		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	ND		0.01	ND		0.01	0.035		0.01
Chloride	45.6		3	103	Q	15	41.4		3
Sulfate	144	Q	25	11.2		5	101	Q	25
Total Organic Carbon	2.3		1	52.8	Q	5	45.6	Q	5
Total Sulfide	ND		0.05	0.012	B	0.05	ND		0.05
Total Alkalinity	462	J(1)	5	690	J(1)	5	474	J(1)	5
Dissolved Gases (µg/L)									
Methane	25	B	0.5	1700	D B	12	4.8	B	0.5
Ethane	ND		0.5	0.41	J	0.5	ND		0.5
Ethene	ND		0.5	0.79		0.5	ND		0.5
Metals (µg/L)									
Iron-DISS	3180		100	17800		100	5830		100
Manganese-DISS	1560		10	4750		10	949		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	MW-17SA			MW-17D			MW-18S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.49		0.01	0.023		0.01	ND		0.01
Chloride	6.6		3	40.4		3	125	Q	15
Sulfate	58.8	Q	25	132	Q	25	103	Q	25
Total Organic Carbon	1.8		1	2.6		1	12.8		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	368	J(1)	5	370	J(1)	5	471	J(1)	5
Dissolved Gases (µg/L)									
Methane	18	B	0.5	93	D B	1	210	D B	3
Ethane	ND		0.5	ND		0.5	0.089	J	0.5
Ethene	ND		0.5	0.24	J	0.5	2.7		0.5
Metals (µg/L)									
Iron-DISS	121		100	3000		100	6460		100
Manganese-DISS	64.6		10	425		10	1280		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	MW-19S			MW-19D			MW-20S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.015		0.01	ND		0.01	4.0		0.01
Chloride	17.9		3	49.5		3	63.3	Q	15
Sulfate	42.1		5	103	Q	25	25.5		5
Total Organic Carbon	2.1		1	1.6		1	1.2		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	394	J(1)	5	414	J(1)	5	301	J(1)	5
Dissolved Gases (µg/L)									
Methane	11	B	0.5	**ND(6)**	B	0.5	0.36	J B	0.5
Ethane	ND		0.5	ND		0.5	ND		0.5
Ethene	ND		0.5	ND		0.5	ND		0.5
Metals (µg/L)									
Iron-DISS	ND		100	6470		100	12.9	B	100
Manganese-DISS	155		10	3460		10	45.8		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time
(6) Method blank contained methane.

ND =Not Detected at or above RL
J = Estimated result less than RL
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D = Result obtained from dilution

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	MW-20D			MW-21S			MW-22S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.026		0.01	2.4		0.01	0.016		0.01
Chloride	71.7	Q	15	6.3		3	17.6		3
Sulfate	90.1	Q	25	127	Q	25	187	Q	25
Total Organic Carbon	1.5		1	2.4		1	2.3		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	362	**J**(1)	5	402	**J**(1)	5	404	**J**(1)	5
Dissolved Gases (µg/L)									
Methane	7.1	B	0.5	**ND**(6)	B	0.5	79	D B	1
Ethane	ND		0.5	ND		0.5	ND		0.5
Ethene	ND		0.5	ND		0.5	1.6		0.5
Metals (µg/L)							**ND**(6)		
Iron-DISS	2410		100	9.9	B	100	3410		100
Manganese-DISS	1330		10	525		10	560		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time
(6) Method blank contained methane.

ND =Not Detected at or above RL
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D = Result obtained from dilution

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	MW-22D			MW-222D (MW-22 DUP)			MW-23S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.027		0.01	0.022		0.01	0.046		0.01
Chloride	49.2		3	48.1		3	12.4		3
Sulfate	163	Q	25	159	Q	25	97.3	Q	25
Total Organic Carbon	2.6		1	2.6		1	3.5		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	392	J(1)	5	390	J(1)	5	390	J(1)	5
Dissolved Gases (µg/L)									
Methane	94	D B	1	98	D B	1	110	D B	1
Ethane	ND		0.5	ND		0.5	ND		0.5
Ethene	2		0.5	2		0.5	0.26	J	0.5
Metals (µg/L)									
Iron-DISS	2470		100	2570		100	3740		100
Manganese-DISS	987		10	1010		10	1600		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

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	MW-24S			MW-25S			MW-25D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	ND		0.01	0.027		0.01	0.017		0.01
Chloride	26.8		3	113	Q	15	43.3		3
Sulfate	0.96	B	5	322	Q	50	142	Q	25
Total Organic Carbon	21.7		1	3.3		1	2.3		1
Total Sulfide	0.044	B	0.05	ND		0.05	ND		0.05
Total Alkalinity	624	J(1)	5	612	J(1)	5	466	J(1)	5
Dissolved Gases (µg/L)									
Methane	2900	D B	25	4400	D B J(5)	50	64	B J(5)	0.5
Ethane	0.59		0.5	ND	J(5)	0.5	ND	J(5)	0.5
Ethene	27		0.5	400	D J(5)	50	7.5	J(5)	0.5
Metals (µg/L)									
Iron-DISS	9960		100	21200		100	1950		100
Manganese-DISS	2150		10	2700		10	1570		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time
(5) Hold time exceeded by 1 day.

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

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	MW-26S			MW-27S			MW-227S (MW-27 DUP)		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.014		0.01	0.037		0.01	0.035		0.01
Chloride	41.0		3	93.7	Q	15	92.1	Q	15
Sulfate	57.7	Q	25	101	Q	25	98	Q	25
Total Organic Carbon	9.5		1	5.5		1	5.7		1
Total Sulfide	ND		0.05	0.011	B	0.05	ND		0.05
Total Alkalinity	813	J(1)	5	418	J(1)	5	431	J(1)	5
Dissolved Gases (µg/L)									
Methane	1400	D B	12	270	D B	5	300	D B	3
Ethane	ND		0.5	ND		0.5	ND		0.5
Ethene	270	D	12	5.7		0.5	6.0		0.5
Metals (µg/L)									
Iron-DISS	16400		100	6990		100	6840		100
Manganese-DISS	2460		10	1460		10	1420		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

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	MW-27D			MW-28S			MW-29S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.030		0.01	0.61		0.01	0.028		0.01
Chloride	47.8	Q	15	6.4		3	29.8		3
Sulfate	113	Q	25	14.1		5	66.4	Q	25
Total Organic Carbon	1.9		1	1.5		1	2		1
Total Sulfide	0.025	B	0.05	ND		0.05	ND		0.05
Total Alkalinity	412	J(1)	5	339	J(1)	5	464	J(1)	5
Dissolved Gases (µg/L)									
Methane	6.3	B	0.5	0.82	B	0.5	120	D B	1
Ethane	ND		0.5	ND		0.5	ND		0.5
Ethene	ND		0.5	ND		0.5	ND		0.5
Metals (µg/L)									
Iron-DISS	6350		100	39.2	B	100	4730		100
Manganese-DISS	2740		10	106		10	328		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

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	MW-229S (MW-29 DUP)			MW-30S			MW-31S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	0.023		0.01	0.014		0.01	0.031		0.01
Chloride	29.3		3	231	Q	15	25.2		3
Sulfate	67.9	Q	25	769	Q	100	124	Q	25
Total Organic Carbon	1.9		1	5.4		1	3		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	464	J(1)	5	244	J(1)	5	437	J(1)	5
Dissolved Gases (µg/L)									
Methane	130	D B	1	1400	D B	25	6.1	B	0.5
Ethane	ND		0.5	0.22	J	0.5	ND		0.5
Ethene	ND		0.5	200		0.5	ND		0.5
Metals (µg/L)									
Iron-DISS	4770		100	38800		100	1830		100
Manganese-DISS	328		10	3080		10	578		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	MW-32S			MW-33S			MW-34D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	ND		0.01	ND		0.01	0.013		0.01
Chloride	24.8		3	24.2		3	109	Q	15
Sulfate	167	Q	25	271	Q	50	287	Q	50
Total Organic Carbon	2.5		1	90.9	Q	5	3.6		1
Total Sulfide	0.015	B	0.05	ND		0.05	ND		0.05
Total Alkalinity	451	J(1)	5	388	J(1)	5	477	J(1)	5
Dissolved Gases (µg/L)									
Methane	6.6	B	0.5	2.4	B	0.5	430	D B	3
Ethane	ND		0.5	ND		0.5	ND		0.5
Ethene	ND		0.5	ND		0.5	11		0.5
Metals (µg/L)									
Iron-DISS	4610		100	3280		100	87.1	B	100
Manganese-DISS	583		10	364		10	2700		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	TMW-1			TMW-2			TMW-4		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)									
Nitrate	2.8		0.01	5.6		0.01	74.7	Q	0.1
Chloride	2.6	B	3	15.4	G	3	9.1		3
Sulfate	69.4	Q	25	118	Q	25	238	Q	25
Total Organic Carbon	1.3		1	2.9		1	3		1
Total Sulfide	ND		0.05	ND		0.05	ND		0.05
Total Alkalinity	392	J(1)	5	489	J(1)	5	616	J(1)	5
Dissolved Gases (µg/L)									
Methane	0.30	J B	0.5	0.50	B	0.5	0.64	B	0.5
Ethane	ND		0.5	ND		0.5	ND		0.5
Ethene	ND		0.5	ND		0.5	ND		0.5
Metals (µg/L)									
Iron-DISS	16.2	B	100	28.4	B	100	10.4	B	100
Manganese-DISS	1.2	B	10	85.4		10	1190		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	RGW-1S			RGW-1D		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Geochemical Parameters (mg/L)						
Nitrate	0.032		0.01	0.021		0.01
Chloride	250	Q	30	48.4	Q	15
Sulfate	1.0	B	5	160	Q	25
Total Organic Carbon	37.3		1	2.4		1
Total Sulfide	0.19	Q	0.1	ND		10
Total Alkalinity	831	J(1)	5	430	J(1)	5
Dissolved Gases (µg/L)						
Methane	7700	D B J(5)	100	56	B J(5)	0.5
Ethane	0.33	J(5)	0.5	0.32	J(5)	0.5
Ethene	32	J(5)	0.5	1.1	J(5)	0.5
Metals (µg/L)						
Iron-DISS	38700		100	284		100
Manganese-DISS	2120		10	1940		10

Notes:
(1) Alkalinity analyzed outside recommended 48 hour hold time
(5) Hold time exceeded by 1 day.

ND =Not Detected at or above RL
J = Estimated result less than RL
Q = Elevated Reporting limit
B = Method Blank contamination
D = Result obtained from dilution

FINAL ANALYTICAL RESULTS
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	MW-5			MW-6			MW-7		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Semivolatiles (ug/L)									
4-Nitroaniline	ND		50	ND		50	ND		50
4-Nitrophenol	ND		50	ND		50	ND		50
Benzyl alcohol	ND		10	ND		10	ND		10
4-Bromophenyl phenyl ether	ND		10	ND		10	ND		10
2,4-Dimethylphenol	ND		10	ND		10	ND		10
4-Methylphenol	ND		10	ND		10	ND		10
1,4-Dichlorobenzene	ND		10	ND		10	ND		10
4-Chloroaniline	ND		10	ND		10	ND		10
bis(2-Chloroisopropyl) ether	ND		10	ND		10	ND		10
Phenol	ND		10	ND		10	ND		10
bis(2-Chloroethyl) ether	ND		10	ND		10	ND		10
bis(2-Chloroethoxy)methane	ND		10	ND		10	ND		10
bis(2-Ethylhexyl) phthalate	ND		10	ND		10	ND		10
Di-n-octyl phthalate	ND		10	ND		10	ND		10
Hexachlorobenzene	ND		10	ND		10	ND		10
Anthracene	ND		10	ND		10	ND		10
1,2,4-Trichlorobenzene	ND		10	ND		10	ND		10
2,4-Dichlorophenol	4.5	J	10	ND		10	ND		10
2,4-Dinitrotoluene	ND		10	ND		10	ND		10
Pyrene	ND		10	ND		10	ND		10
Dimethyl phthalate	ND		10	ND		10	ND		10
Dibenzofuran	ND		10	ND		10	ND		10
Benzo(ghi)perylene	ND		10	ND		10	ND		10
Indeno(1,2,3-cd)pyrene	ND		10	ND		10	ND		10
Benzo(b)fluoranthene	ND		10	ND		10	ND		10
Fluoranthene	ND		10	ND		10	ND		10
Benzo(k)fluoranthene	ND		10	ND		10	ND		10
Acenaphthylene	ND		10	ND		10	ND		10
Chrysene	ND		10	ND		10	ND		10
Benzo(a)pyrene	ND		10	ND		10	ND		10
2,4-Dinitrophenol	ND		50	ND		50	ND		50
4,6-Dinitro-2-methylphenol	ND		50	ND		50	ND		50
Dibenz(a,h)anthracene	ND		10	ND		10	ND		10
1,3-Dichlorobenzene	ND		10	ND		10	ND		10
Benzo(a)anthracene	ND		10	ND		10	ND		10
4-Chloro-3-methylphenol	ND		10	ND		10	ND		10
2,6-Dinitrotoluene	ND		10	ND		10	ND		10
N-Nitrosodi-n-propylamine	ND		10	ND		10	ND		10
Benzoic acid	ND		50	ND		50	ND		50
Hexachloroethane	ND		10	ND		10	ND		10
4-Chlorophenyl phenyl ether	ND		10	ND		10	ND		10
Hexachlorocyclopentadiene	ND		50	ND		50	ND		50

ND =Not Detected at or above RL
J = Estimated result less than RL
COL = > 40% difference between primary and secondary confirmation column results (lower is reported)

FINAL ANALYTICAL RESULTS
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HARCROS, KANSAS CITY, KS

	MW-5			MW-6			MW-7		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Semivolatiles cont'd (ug/L)									
Isophorone	ND		10	ND		10	ND		10
Acenaphthene	ND		10	ND		10	ND		10
Diethyl phthalate	ND		10	ND		10	ND		10
Di-n-butyl phthalate	ND		10	ND		10	ND		10
Phenanthrene	ND		10	ND		10	ND		10
Butyl benzyl phthalate	ND		10	ND		10	ND		10
N-Nitrosodiphenylamine	ND		10	ND		10	ND		10
Fluorene	ND		10	ND		10	ND		10
Hexachlorobutadiene	ND		10	ND		10	ND		10
Pentachlorophenol	ND		50	ND		50	ND		50
2,4,6-Trichlorophenol	ND		10	ND		10	ND		10
2-Nitroaniline	ND		50	ND		50	ND		50
2-Nitrophenol	ND		10	ND		10	ND		10
Naphthalene	ND		10	ND		10	ND		10
2-Methylnaphthalene	ND		10	ND		10	ND		10
2-Chloronaphthalene	ND		10	ND		10	ND		10
3,3'-Dichlorobenzidine	ND		50	ND		50	ND		50
2-Methylphenol	ND		10	ND		10	ND		10
1,2-Dichlorobenzene	1.9	J	10	ND		10	ND		10
2-Chlorophenol	ND		10	ND		10	ND		10
2,4,5-Trichlorophenol	ND		10	ND		10	ND		10
Nitrobenzene	ND		10	ND		10	ND		10
3-Nitroaniline	ND		50	ND		50	ND		50
Herbicides (ug/L)									
2,4,5-TP (Silvex)	5.7		1	ND		1	**460**		50
2,4,5-T	ND		1	ND		1	ND		50
2,4-D	ND		4	ND		4	ND		200

ND =Not Detected at or above RL
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FINAL ANALYTICAL RESULTS
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HARCROS, KANSAS CITY, KS

	MW-207 (MW-7 DUP)			MW-17SA			MW-22S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Semivolatiles (ug/L)									
4-Nitroaniline	ND		50	ND		50	ND		50
4-Nitrophenol	ND		50	ND		50	ND		50
Benzyl alcohol	ND		10	ND		10	ND		10
4-Bromophenyl phenyl ether	ND		10	ND		10	ND		10
2,4-Dimethylphenol	ND		10	ND		10	ND		10
4-Methylphenol	ND		10	ND		10	ND		10
1,4-Dichlorobenzene	ND		10	ND		10	ND		10
4-Chloroaniline	ND		10	ND		10	ND		10
bis(2-Chloroisopropyl) ether	ND		10	ND		10	ND		10
Phenol	ND		10	ND		10	ND		10
bis(2-Chloroethyl) ether	ND		10	ND		10	ND		10
bis(2-Chloroethoxy)methane	ND		10	ND		10	ND		10
bis(2-Ethylhexyl) phthalate	ND		10	ND		10	**13**		10
Di-n-octyl phthalate	ND		10	ND		10	ND		10
Hexachlorobenzene	ND		10	ND		10	ND		10
Anthracene	ND		10	ND		10	ND		10
1,2,4-Trichlorobenzene	ND		10	ND		10	ND		10
2,4-Dichlorophenol	ND		10	ND		10	ND		10
2,4-Dinitrotoluene	ND		10	ND		10	ND		10
Pyrene	ND		10	ND		10	ND		10
Dimethyl phthalate	ND		10	ND		10	ND		10
Dibenzofuran	ND		10	ND		10	ND		10
Benzo(ghi)perylene	ND		10	ND		10	ND		10
Indeno(1,2,3-cd)pyrene	ND		10	ND		10	ND		10
Benzo(b)fluoranthene	ND		10	ND		10	ND		10
Fluoranthene	ND		10	ND		10	ND		10
Benzo(k)fluoranthene	ND		10	ND		10	ND		10
Acenaphthylene	ND		10	ND		10	ND		10
Chrysene	ND		10	ND		10	ND		10
Benzo(a)pyrene	ND		10	ND		10	ND		10
2,4-Dinitrophenol	ND		50	ND		50	ND		50
4,6-Dinitro-2-methylphenol	ND		50	ND		50	ND		50
Dibenz(a,h)anthracene	ND		10	ND		10	ND		10
1,3-Dichlorobenzene	ND		10	ND		10	ND		10
Benzo(a)anthracene	ND		10	ND		10	ND		10
4-Chloro-3-methylphenol	ND		10	ND		10	ND		10
2,6-Dinitrotoluene	ND		10	ND		10	ND		10
N-Nitrosodi-n-propylamine	ND		10	ND		10	ND		10
Benzoic acid	ND		50	ND		50	ND		50
Hexachloroethane	ND		10	ND		10	ND		10
4-Chlorophenyl phenyl ether	ND		10	ND		10	ND		10
Hexachlorocyclopentadiene	ND		50	ND		50	ND		50

ND =Not Detected at or above RL
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COL = > 40% difference between primary and secondary confirmation column results (lower is reported)

FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-207 (MW-7 DUP)			MW-17SA			MW-22S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Semivolatiles cont'd (ug/L)									
Isophorone	ND		10	ND		10	ND		10
Acenaphthene	ND		10	ND		10	ND		10
Diethyl phthalate	ND		10	ND		10	ND		10
Di-n-butyl phthalate	ND		10	ND		10	ND		10
Phenanthrene	ND		10	ND		10	ND		10
Butyl benzyl phthalate	ND		10	ND		10	ND		10
N-Nitrosodiphenylamine	ND		10	ND		10	ND		10
Fluorene	ND		10	ND		10	ND		10
Hexachlorobutadiene	ND		10	ND		10	ND		10
Pentachlorophenol	ND		50	ND		50	ND		50
2,4,6-Trichlorophenol	ND		10	ND		10	ND		10
2-Nitroaniline	ND		50	ND		50	ND		50
2-Nitrophenol	ND		10	ND		10	ND		10
Naphthalene	ND		10	ND		10	ND		10
2-Methylnaphthalene	ND		10	ND		10	ND		10
2-Chloronaphthalene	ND		10	ND		10	ND		10
3,3'-Dichlorobenzidine	ND		50	ND		50	ND		50
2-Methylphenol	ND		10	ND		10	ND		10
1,2-Dichlorobenzene	ND		10	ND		10	ND		10
2-Chlorophenol	ND		10	ND		10	ND		10
2,4,5-Trichlorophenol	ND		10	ND		10	ND		10
Nitrobenzene	ND		10	ND		10	ND		10
3-Nitroaniline	ND		50	ND		50	ND		50
Herbicides (ug/L)									
2,4,5-TP (Silvex)	**450**		100	ND		1	ND		1
2,4,5-T	ND		100	ND		1	ND		1
2,4-D	ND		400	ND		4	ND		4

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FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-25S			RGW-1S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Semivolatiles (ug/L)						
4-Nitroaniline	ND		50	ND		500
4-Nitrophenol	ND		50	ND		500
Benzyl alcohol	ND		10	ND		100
4-Bromophenyl phenyl ether	ND		10	ND		100
2,4-Dimethylphenol	ND		10	ND		100
4-Methylphenol	ND		10	ND		100
1,4-Dichlorobenzene	ND		10	ND		100
4-Chloroaniline	ND		10	ND		100
bis(2-Chloroisopropyl) ether	ND		10	ND		100
Phenol	ND		10	880		100
bis(2-Chloroethyl) ether	ND		10	ND		100
bis(2-Chloroethoxy)methane	ND		10	ND		100
bis(2-Ethylhexyl) phthalate	ND		10	ND		100
Di-n-octyl phthalate	ND		10	ND		100
Hexachlorobenzene	ND		10	ND		100
Anthracene	ND		10	ND		100
1,2,4-Trichlorobenzene	ND		10	ND		100
2,4-Dichlorophenol	ND		10	ND		100
2,4-Dinitrotoluene	ND		10	ND		100
Pyrene	ND		10	ND		100
Dimethyl phthalate	ND		10	ND		100
Dibenzofuran	ND		10	ND		100
Benzo(ghi)perylene	ND		10	ND		100
Indeno(1,2,3-cd)pyrene	ND		10	ND		100
Benzo(b)fluoranthene	ND		10	ND		100
Fluoranthene	ND		10	ND		100
Benzo(k)fluoranthene	ND		10	ND		100
Acenaphthylene	ND		10	ND		100
Chrysene	ND		10	ND		100
Benzo(a)pyrene	ND		10	ND		100
2,4-Dinitrophenol	ND		50	ND		500
4,6-Dinitro-2-methylphenol	ND		50	ND		500
Dibenz(a,h)anthracene	ND		10	ND		100
1,3-Dichlorobenzene	ND		10	ND		100
Benzo(a)anthracene	ND		10	ND		100
4-Chloro-3-methylphenol	ND		10	110		100
2,6-Dinitrotoluene	ND		10	ND		100
N-Nitrosodi-n-propylamine	ND		10	ND		100
Benzoic acid	ND		50	590		500
Hexachloroethane	ND		10	ND		100
4-Chlorophenyl phenyl ether	ND		10	ND		100
Hexachlorocyclopentadiene	ND		50	ND		500

ND =Not Detected at or above RL
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FINAL ANALYTICAL RESULTS
AUGUST/SEPTEMBER 2001
HARCROS, KANSAS CITY, KS

	MW-25S			RGW-1S		
	Result	Note	Rep. Limit	Result	Note	Rep. Limit
Semivolatiles cont'd (ug/L)						
Isophorone	ND		10	ND		100
Acenaphthene	ND		10	ND		100
Diethyl phthalate	ND		10	ND		100
Di-n-butyl phthalate	ND		10	ND		100
Phenanthrene	ND		10	ND		100
Butyl benzyl phthalate	ND		10	ND		100
N-Nitrosodiphenylamine	ND		10	ND		100
Fluorene	ND		10	ND		100
Hexachlorobutadiene	ND		10	ND		100
Pentachlorophenol	ND		50	ND		500
2,4,6-Trichlorophenol	ND		10	ND		100
2-Nitroaniline	ND		50	ND		500
2-Nitrophenol	ND		10	ND		100
Naphthalene	ND		10	730		100
2-Methylnaphthalene	ND		10	ND		100
2-Chloronaphthalene	ND		10	ND		100
3,3'-Dichlorobenzidine	ND		50	ND		500
2-Methylphenol	ND		10	ND		100
1,2-Dichlorobenzene	4.1	J	10	ND		100
2-Chlorophenol	ND		10	ND		100
2,4,5-Trichlorophenol	ND		10	ND		100
Nitrobenzene	ND		10	ND		100
3-Nitroaniline	ND		50	ND		500
Herbicides (ug/L)						
2,4,5-TP (Silvex)	0.98	J	1	2.1		1
2,4,5-T	ND		1	0.86	J COL(4)	1
2,4-D	ND		4	2.9	J	4

Notes:
(4) % difference of initial and confirm. > 40%

ND =Not Detected at or above RL
J = Estimated result less than RL
COL = > 40% difference between primary and secondary confirmation column results (lower is reported)